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The 21/55 Data Base User's Manual

Prepared by E. G. Silver

Oak Ridge National Laboratory

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Commission

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The 21/55 Data Base User's Manual

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Prepared by
E. G. Silver

Nuclear Operations Analysis Center
Oak Ridge National Laboratory
Oak Ridge, TN 37830

Prepared for
Office for Analysis and Evaluation of Operational Data
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555
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EXECUTIVE SUMMARY

Under the requirements of 10 CFR 21 and 10 CFR 50.55(e) the holders of construction permits for nuclear facilities, as well as certain manufacturers and vendors of equipment and components to be used in such facilities, are required to file with the NRC reports of certain events and deficiencies that arise in the course of the design, construction, and testing of nuclear facilities.

These letter-format reports are termed Construction Deficiency Reports (CDRs), and they contain much useful information concerning types and frequencies of problems and their resolutions. The Parts 21 and 50.55(e) Data Base (P21/55DB) is designed to extract, code, store, and analyze this information for ready access and utilization. The data base contains all CDRs submitted to the NRC starting in April 1984, and is growing at a rate of about 60 reports per week, the rate at which the reports are received.

Data Base Organization

The data base concept is a two-tier structure whose elements are, respectively, the events that trigger the submission of reports. It is necessary to distinguish between these two elements because events usually give rise to multiple reports (initial, interim, update, final, revised final), and the data base is intended to serve both as an archival record of reports submitted and as a source of information on the events to which they refer. When a report is coded, the coder must determine whether the report is the first presented for entry in the data base dealing with a given event; if it is, a record for the event, whose contents are the data extracted from the report in question, is established in the data base. If, on the other hand, the report deals with an event for which a record has already been established in the data base (i.e. for which one or more earlier reports have already been

entered into the data base), the report is used to update the information from the earlier reports, and is also added to the record for the event in question.

In addition to the information coded and entered into the data base by the ORNL coders, there is special provision for the direct entry of certain data by NRC staff, both at Headquarters and in the Field Offices; this data relates to the actions taken by the NRC with respect to the event in question, and to the organizations and staff assigned to maintain cognizance of the event and its resolution.

NOAC Input Information

In the light of the two-tier organization described above, the data extracted from the reports and entered into the data base by the coders at the Nuclear Operations Analysis Center (NOAC) at ORNL is divided into event-related and report-related information. The event-related information always represents the latest and hence "best" information about the event. This means that, as later reports are received, the information in the data base is subject to revision. When an update report is received, the information of this type remains unaltered in the data base if the corresponding entry space is blank, i.e., if the new report contains nothing that prompts the coder to alter the earlier entry. If, on the basis of the more recent report, a change is deemed necessary, an entry in any of these fields will be written over the earlier entry, that is to say, it will replace the earlier information.

The report-related information relates to the specific report being coded. It is appended to the record for the event in question, so that the record will contain entries for each of the reports dealing with that event.

Another way to classify the types of data entries is by data type. There is coded, keyed, and textual information. The coded information includes such

things as dates and identifying numbers, and the text material is contained in specified fields that call for verbal descriptions of the nature and causes of the problems. There is also an all-purpose text field called "OTHER" for relevant information that does not fit elsewhere. A descriptive title is also in the form of a text field. Text material other than the title is not written over earlier entries, but is appended to them, with an identifier that relates each text to the report which prompted its entry.

The keyed fields are those for which an inverted file exists; these fields can be searched by codes, and data entry is done by making a selection from a list of permissible entries for each of the fields of this type. These fields include facility identifiers (which also supplies information about the nature of the facility), component and system descriptors, manufacturer and vendor names, codes to describe deficiencies and their causes, and codes to describe how and by whom the deficiency was discovered. The code lists form part of this User's Manual.

NRC Input Information

The NRC-input data includes the names of NRC staff persons assigned responsibility for follow-up of each event, a listing of information products produced in response to the event, a code showing the type of follow-up action taken, and a text entry with any desired additional information.

Since the NRC input field ASSIGNEE designates responsibility for follow-up, and since input to the NRC data fields will be done by NRC staff persons from remote terminals, a system of access controls was developed to protect the integrity of the data in the system. The basic philosophy is that anyone who has a user identification number and password with which to log onto the system can look at any data in the data base; however, changing the contents of the ASSIGNEE field is restricted by means of a second series of passwords so that

only those to whom a given event has been assigned by the "Master Entry Control Person" (MECP) who is the sole user with this authority can make these entries. Of course the computer system identifies any user by his password, so that maintaining the confidentiality of these passwords is crucial to the functioning of the access control system.

To protect the information entered by NRC staff, the system is so structured that, except for the ASSIGNEE field, all entries made by NRC are cumulative, i.e. not written over, and are identified ("tagged") by the identifier of the person making the entry. To avoid problems due to erroneous entries, provision is made for the person who entered an NRC-field item to change or delete it on the day the data was entered. Thereafter even the enterer cannot delete or alter the input. He can of course add to it when and as he wishes.

Tutorial and Command Descriptions

The 21/55DB contains a detailed description of the commands available to the user, including log-on and log-off procedures, commands for creating and manipulating subsets of files, and commands for outputting information in a variety of formats. It is possible to create frequency-distribution tables in one or two dimensions, as well as listings of subsets satisfying any desired combinations of keyed attributes, using combinations of exclusive (AND-logic) and inclusive (OR-logic) specifications to create the desired subsets of data.

The tutorial section (Section V.C) presents a "user-friendly" introduction to the most frequently used commands, and an easy explanation of how to access the data base and how to create desired sets of files. Some examples of the computer output in response to various commands are given, and all long tables required for interpreting the codes used for entering keyed data are presented both in forward order (alphabetized by referent) for use by coders and in

inverse order (alphabetized by symbol) for use by users who want to know the meaning of a symbol. This facilitates interpretation of symbols output by the program; however, the extended outputs are all "interpreted", meaning that all symbol referents are listed in verbal form in the output in addition to the symbol, for ease in utilization.

I INTRODUCTION

This User's Manual is intended to contain all the information necessary for a prospective user of the Part 21/50.55(e) Data Base (called the "21/55 DB," for short) to sit at a suitable computer terminal and obtain information from the data base, as well as inputting certain types of information designed for input by NRC personnel from remote terminals.

The 21/55 DB contains coded information from the reports submitted to NRC by reactor construction licensees and certain suppliers of equipment and components to nuclear facilities licensed to operate, under the requirements of 10 CFR 21 and 10 CFR 50.55(e).

Effective use of the 21/55 DB requires an understanding of its basic logical structure, knowledge of the terminal commands available to the user and access to the various codes and symbols used to represent the information in the base.

This User's Manual contains that information. The first section presents the general structure and philosophy of the data base. Then the Manual gives step-by-step instructions for logging on, manipulating and selecting data, obtaining desired output, and inputting the information which is designed for insertion from the remote NRC terminals. Last there is a description of the information in the base, its nature, and the codes used.

The data base is designed to be as 'transparent' as possible for the user to the coding process and problems, but some aspects of the criteria that guided the coding must be understood for unambiguous interpretation of what the information means and what its limitations are.

II 21/55 DATA BASE ORGANIZATION

From a user's perspective the 21/55 data base is a two-tier system, which collects and organizes information of a variety of types about construction efficiency reports which are collected and organized with respect to the events to which they refer.

For the purposes of this User's Manual an event is any occurrence, discovery, failure, or abnormality which results in the filing of one or more CER reports to the NRC under the requirements of either 10 CFR 21 or 10 CFR 50.55(e). Events may or may not be identified by the reporting organization by their own identification numbers, but if they are, these numbers are recorded in 21/55 DB; in any case each event is assigned a "CERCRS" identifier, a seven-digit number, unique to that event.

Since a given event may give occasion for issuing more than one report (initial reports, interim or update reports, final reports and revisions thereof), each identified by a unique NRC accession number, the data base also keeps track of reports, which are defined to be any accession-numbered documents filed under the requirements of 10 CFR 21 or 10 CFR 50.55(e), and which also are given an internal 21/55DB sequential number.

Since a historical and archival record of all reports is desired as an important aspect of the data base, all such reports are entered in the system with certain information they contain coded in ways to be described below. The essential organization aspect of this two-level data system to be kept in mind is that the event information is always the latest and most complete information available on that

event, so that, as later reports about the event are received, the event information may be updated, modified or expanded, but no attempt is made to retain earlier, outdated or incomplete, information. Specifically, as new or improved information is received, it is written over the earlier, less correct, information or written into previously blank fields if there was no information available for that field before the update.

Report information, on the other hand, is never erased or written over, since this would destroy the value of the 21/55 DB as an archival historical record of the reports filed. Rather, the new information is appended to the existing information, so that a complete record of all the reports relating to a given event is always available.

The data relating to events are also referred to as Section I data, since this is their place in the logical structure of the data base, while the report-related data are also called Section II data.

A somewhat special place is occupied by the information to be entered into the data base by NRC users from remote terminals. This NRC-input data concerns, in general, NRC responses to the construction deficiency events, either by the development and dissemination of information products, or by regulatory or standards actions, or by combinations of such responses, and thus is clearly event-related (i.e., belonging in Section I) rather than report-related (Section II). However, since this is not the sort of information to be updated as later reports are received, this NRC-input data is not written over, as is the other Section I data, but

is appended to the prior data of the same type so that a complete list of NRC information documents and closeout or response actions is always available for each event. In that respect the NRC-input data resembles the NOAC-input Section II data, which is also appended to, rather than taking the place of, earlier entries.

The basic logic of the 21/55 DB, as seen by the user, is built upon sets of events. This means that the searchable parameters can be used to create sub-sets of events with desired characteristics or combinations of characteristics which can then be examined and tested in various ways. Once a set of events with a given group of characteristics has been defined, it is possible to display, search, compare, and otherwise manipulate the information to extract desired information.

Since the 21/55 DB system software contains internal information concerning the nature of the facilities identified by the facility identifiers (docket numbers in the case of reactors and assigned identifiers for other fuel cycle facilities) it will also be possible to search by characteristics such as reactor type (BWR or PWR), manufacturer, and owner which have not had to be entered explicitly by the coders.

III NOAC INPUT INFORMATION

In this section the information actually entered in the 21/55 DB will be described in sufficient detail to enable users of the data base to understand what the various information fields contain, how the entries are established, and what the significance of the code symbols is. With this information plus the instructions on how to use the computer, which will be found in the next section, it will be possible to extract useful information from the data base.

III.A Lists of Codes

In a number of entries, the so-called keyed fields, the input is in the form of codes, both for ease of entry and retrieval, and to make statistical studies of the numbers of various entries possible. In most cases the output information presented to the user can include not only the code symbol but a verbal equivalent, so that the user need not know the codes, nor look them up in the tables, to understand the output. In computer language, the codes are 'transparent to the user,' though, of course they must be understood in great detail by the coder. However, the user will need to refer to codes if he wishes to initiate searches on keyed information rather than by date or accession numbers. For these reasons the code lists are presented in the appendices of this manual. In cases where the lists are extensive, they will be provided arranged both in alphabetic and numerical order, and by alphabetic order in the defined parameter, so that, knowing either the code or its referent, the other can be looked up.

III.B Data Entered into the 21/55 DB

This section will describe, in some detail, all the information entered into the 21/55 DB for each event and report. The sequence in which the information is presented is arbitrary to a degree, since from the user's view-point the sequence in which it was entered does not matter so far as retrieval of information is concerned. However, the sequence followed corresponds to that in the input, since this is the sequence used by the coders. It must be remembered that the 21/55 DB logic structure distinguished between events and reports, with the former as the basic data base record, but each report nevertheless accessible to the user.

III.B.1 Title: A title is composed that best describes the problem because of which the report was written. The title is concise; a maximum of 64 letters, numbers, and spaces are allowed. Abbreviations are used only when there is an insufficient number of spaces for the title with all words completely written out. In some cases, the submitter organizations supply titles for events which are sufficiently informative for use in this context. In such cases the submitter's title is used.

III.B.2 Coder's Initials and Date Coded: These two items of information are really for use by the coding staff and not intended for search or retrieval by the user. However, these items of information are accessible to the user and may be used as search criteria.

The coder's initials form a two-character set identifying the person who translated the report into the coded form suitable for entry into the 21/55. The following table lists the coder's initials assigned to date:

<u>Initials</u>	<u>Coder's Name</u>
FH	Fred Heddleson
RG	Richard Gallaher
ES	Ernest Silver
JT	Joe Turner
JH	John Harris
MW	Mel Winton
JC	Joe Cletcher

Other initials can be added to the list as required.

The date coded is the date on which the coder began the job of translating the report into coded form. It is entered in the standard form adopted for all dates in the 21/55 DB of a six digit number consisting of day/month/year, with leading zeroes retained for day and month when these are less than ten, and using the last two digits of the year.

III.B.3 Counting Number: This number identifies each report. It is written in sequential order as received by NOAC on the copy of the report and entered in the coding form. Up to 5 digits (allowing for 100,000 reports) are allowed.

III.B.4 QA Indicator: This one-character field is used to identify independent second codings for QA comparisons. Reports so identified do not appear in the main data base.

III.B.5 CERCRS Number: This seven-digit number serves as the unique event identifier; it applies to all reports dealing with a given event. This number's first two digits designate the year in which the number was assigned, and the last five digits (with leading zeros) are taken to be the same as the counting number of the first report dealing with the event in question to be coded. If a report is an update to an event for which a previous report has been entered into the P21/55DB, the CERCRS number of that earlier report is also entered for the update. (In fact, the JOSHUA software uses this information to decide whether a report is the first report on a previously uncoded event, or an update, by comparing the sequential number with the last 5 digits of the CERCRS number. If they are identical, the report is for a new event; if not, it is an update to the event with the given CERCRS number.)

For example, the report with counting number 1234 and CERCRS number 8401234 is treated as a first report. The report with counting number 1789 and CERCRS number 8401234 is treated as an update to event 8401234.

III.B.6 Submittor's Corporate Identity or Source: This keyed (i.e., coded) field identifies the company which submitted the report. This is report-related (Section II) information, since it is at least possible that different reports dealing with a single event may come from different organizations, although this would be highly unusual.

The source will normally be either a manufacturer/vendor or a licensee (reactor or fuel cycle). If it is a licensee, the entry will be one of the three letter codes listed in alphabetical order in Table 1 of Appendix A and in alphabetical order by licensee name in Table 2 of Appendix A.

If the source is a manufacturer/vendor organization, the symbol, a four character code (one letter plus three digits), is taken from the list which is found in Table 1 of Appendix B sorted by code letter and number and in Table 2 of Appendix B sorted alphabetically by organization name.

If the name of the submitter organization is not in either of these lists, the code XXX is used if the submitter is a licensee, or the code XXXX is used if it is a manufacturer/vendor, and the information is entered in the 'Other' test field.

If the name of the submitter organization is not in either of these lists, the code XXXX is used and the information is entered in the 'Other' test field.

III.P.7 NRC Accession Number: This ten-digit number is the unique report identifier assigned by NRC to each report when it is received, and thus is Section II information. The first six digits show the year (last two digits of the year), the month, and the day of the month the report has been logged in, using leading zeroes for month and day numbers less than ten, and the last four digits are sequential numbers within the month, so that each ten-digit number is unique to the report it identifies. The number appears in the upper left hand corner of the Regulatory Information Distribution System (RIDS) report cover sheet and is also typed in the lower left hand corner of the report transmittal letter, or first page of the report if there is no letter.

In rare instances a cover letter has an NRC accession number, but the report information sent with that letter refers to two separate events, each with its own accession number, different from that on the

cover letter. In that event 'dummy' entries are made in the system using the cover letter number, as well as entries for each of the two event reports, so that the accession number can be retrieved. The dummy entry bearing the cover letter accession number then carries references to the other two accession numbers in the 'Other' field so that the user can make the connection if he needs to do so.

Rarely, also, a given report may be submitted twice with different accession numbers. In that case the lower number is used for the full entry, and the higher accession number is entered in a 'dummy' record, with appropriate reference to the other accession number in the 'Other' field.

The guiding principle is that any assigned accession number will be reflected in a record in the data base if the event it deals with is one that belongs in the data base. If a report that clearly does not belong in the 21/55 DB is received as a CER, it will not be entered into the system.

III.B.8 Date of Report: This date (entered in the six-digit month/day/year format described in Section III.B.2, above) is the date borne by the transmittal letter of the report. It is not the date the report was received by NRC (sometimes stamped on the transmittal letter) nor is it the date the report was entered in the RIDS system, which is shown in the accession number.

Another infrequent occurrence is a report which consists of a letter referring to several earlier reports, updating each of them (usually just by giving a new date for issuance of a final report). In that case the report is "split" into update reports for all referenced reports, with the same accession number on each update.

III.B.9 Report Classification: This one or two letter code indicates whether the report is the initial written document for this event, whether it is an interim report, or whether it is a final report or an update or revision of a final report. The one or two letter codes are as follows:

- I Initial report (sometimes called first interim report)
- UN Nth update (when the "interim" report nomenclature is used the (N+1)th interim report is assumed to be the Nth update)
- UX Update or interim report when position in sequence is unknown
- FN Final report (FO is first final report, F1 is first revision to final report, etc.)

The initial report, code "I", is the first written report and not the telephone call which is frequently made to NRC as the first notification of an event. This phone call is not considered to be the initial report.

Periodic reports are often required until the event is finally resolved. Each of the successive reports after the first, submitted prior to the final report, are termed interim reports. However nomenclature varies. Some submitters call the first written report the first interim report. By that system the Nth report is the (N-1)th interim report as others use the term, and by the terminology adopted here. There are two codes for interim reports, UN and UX as described above. Since the final report is sometimes revised, a number is added to the F, as described above.

Determining the report classification is not always easy. A report transmittal letter often refers to a prior report made to NPC which may have been by phone or by letter, not clearly distinguished. The interim reports may or may not reference earlier reports so that the number of such documents is not always clear. A report which indicates when the next report will be submitted identifies the report as interim. The code UX is used when the number of the interim report cannot be ascertained. Nearly always, the final report will say that it is indeed the final report on the event in question.

III.B.10 Submitter's Event Identifier: Twelve spaces are allocated for the event identifier assigned by the originator of the report. This number is often cited on each report submitted for the specific event so identified, from the initial report through interim reports to the final report. Unfortunately, this continuity cannot always be counted on. Some sources have a well-defined system for identification. Others don't. For instance, reports on Palo Verde are always identified with a number of the form DER XX-YY, where XX indicates the year and YY indicates the YY'th event for the year. This number on reports after the initial report thus readily identifies the event to which they refer.

One difficulty with identifying numbers of this kind is that there is frequently inconsistent use of symbols such as "/", "-", or a blank space to divide portions of the numbers. In order to make the use of these submitter identifying numbers and their retrieval easier, the 21/55 DB software treats all these spacers as identical

(in fact treating them as spaces). Thus slashes, hyphens and spaces are treated alike, but the space must be there. In other words, 83-23 is equivalent to 83/23 or 83 23, but not to 8323.

Another convention is needed regarding the use of docket numbers of facilities as part of the submitter-assigned identification number when the event reported deals with more than one facility owned by the same submitter. Typically this would be a situation where a multi-reactor site reports a construction event that affects all the reactors on the site, and gives identifying numbers including the docket numbers of each of the facilities on the site. In that case, the adopted convention is to use the lower (or lowest) docket number as the number that forms part of the identifier.

III.B.11 Date of First Written Report: This date, entered in the usual six-digit (month/day/year) format is the date carried by the first (initial or first interim) report on a given event. Clearly, for the first report this date is the same as that for the report discussed in Section III.B.5, above.

III.B.12 NRC Region: This keyed (i.e. coded) entry is a single digit which represents the number of the NRC region to which the report is being filed. Headquarters is assigned the number 0, and the other numbers match the numbered NRC Regions headquartered as follows:

- 0 Headquarters in Washington, D.C.
- 1 Region I; King of Prussia, PA
- 2 Region II; Atlanta, GA
- 3 Region III; Glen Ellyn, IL
- 4 Region IV; Arlington, TX
- 5 Region V; Walnut Creek, CA.

This item of information is usually determined from the mailing address of the transmittal letter that accompanies the report. It is considered to be Section I (event) information since all updates are filed with the same NRC region as the original report.

If a given report is submitted to more than one region (which happens for SNUPPS reports, for example), the lower region number is coded.

III.B.13 Report Type: This item of information refers to the NRC reporting requirement under which the event in question is being reported. There are basically two regulations under which such reporting is required, 10 CFR 21 and 10 CFR 50.55(e). The report generally states under which of these requirements it is being submitted, but

there is also the possibility that an event may be reportable under both requirements, or that one type may lead to the other, either at the same facility or at other facilities later. The one-digit code which describes these possibilities is as follows:

<u>Code</u>	<u>Meaning</u>
1	10 CFR 21
2	10 CFR 50.55(e)
3	Both 10 CFR 21 and CFR 50.55(e)
4	10 CFR 21 resulting from a 10 CFR 50.55(e)
5	10 CFR 50.55(e) resulting from a 10 CFR 21

III.B.14 System Description: This description for events (Section I) is a two-letter keyed code taken over directly from the SCSS code system. Table 1 of Appendix B lists all the system codes alphabetized by code, and Table 2 of Appendix B lists the definitions in permuted form alphabetically for all words in the definitions.

The system involved in a deficiency is usually inferrable from information in the reports, plus knowledge and experience possessed by the coder applied to the information available.

III.B.15 Component Descriptions: These are also keyed (coded) entries. The description of the component involved is based on use of the SCSS-developed component codes, which are listed in Appendix C, Tables 1 and 2. The former lists the components arranged alphabetically by code (also including arrangement by number where numbers are used, with the digits preceding the letters), and the latter lists the component codes by permuted descriptions.

Each component description may make use of one or two component codes designated as COMP1 and COMP2. COMP1 lists the main component, such as a valve, a motor, a pipe, etc. It is frequently a matter of judgment how tightly the component description is to be drawn. For example, a deficient motor-bearing oil pump seal could be considered as a motor failure, a bearing failure, a pump failure, or a seal failure. The criterion applied by the coders has been to use the first coding term to describe the larger functional unit, in this case a motor, and then use the second component code (COMP2) to give a narrow description, in this case a pump of the appropriate type. Note that the sequence of codes is important; 'motor' for COMP1, followed by 'pump' for COMP2 does not mean a motor powering a pump, but a pump serving a motor, in the example above a pump supplying oil to a motor bearing. A failure in a motor powering a pump would have pump as COMP1 and motor as COMP2.

Two additional codes have been added to the 21/55 DB component code list which are not part of the SCSS component code, and thus are not included in either of the two tables of Appendix D. These are

DWG drawing/diagram/other documentation

XXXX other components, not listed in the table elsewhere.

The former code, DWG, is needed in the 21/55 DB because many deficiencies are not directly problems with components, but rather with the associated paperwork, be it drawings, specifications, diagrams, or

other written material. The second added code, XXXX, serves where there is no entry in the component code which fits adequately. The use of XXXX in either COMP1 or COMP2 is followed by a suitable entry in the text field OTHER to explain further.

If a single component code satisfies the descriptive need, COMP2 may be omitted.

II.B.16 Cause Code: This set of three keyed codes serves to describe the cause of the deficiency. It consists of three keyed codes. Each of the three one-letter codes is separately coded with specific assigned meanings for each character. The three cause code lists are given in Appendix D along with explanations of the meaning of each symbol.

The first character designates the stage of the process at which the fault was caused. Each stage in the life cycle of a part of component has its code symbol, plus three other symbols to be used if none of the others fits. If X (other) is selected, an entry in the "OTHER" text is included to specify the stage.

The second character specifies more closely the meaning of the first code. Seismic restraint systems, thermal aspects, structural, mechanical and electrical types as well as others are available for choice. Again there are options X, Y, and Z to use if none of the listed items are appropriate. Here, also, an X generally means that explanation follows in the OTHER field.

Because of the nature of this second cause code, it will often not be applicable, and in that case an entry of Y (Not applicable) is used, of course.

The third cause code character gives the actual cause of the deficiency. It includes not only actual errors, such as misapplication, use of wrong standards, mishandling, but also records deficiencies, changes in requirements, incompleteness, etc. The usual X, Y, and Z codes are also used.

III.B.17 How Discovered: This keyed code describes the method of discovery of the deficiency. Possible options are such items as operational failure, testing and inspection of various kinds, QA program activities, and design calculations or verification calculations. Appendix E lists the available codes and explains their meanings. It will be noted that here also there is the option X (other) which implies an explanation in the OTHER text field.

While the first cause code gives insight into the stage of the life cycle of the faulted item or system at which the problem was caused, the Method of Discovery code under discussion here is designed to allow insight into the life-cycle stage at which the problem is discovered. By comparing the two, useful information about the effectiveness of inspection and testing procedures and quality control and assurance programs can be inferred.

III.B.18 Who Discovered: This keyed entry is used to code the organization or person (by position) who discovered the deficiency. Two characters are used, with some mnemonic form, to establish the source of discovery. Appendix F lists the available options. Note that a use of XX (other) implies that more information is placed in the text field OTHER.

III.B.19 Facility Data: This keyed event-related information tells what facility is principally affected, and what other facilities are(or may be)affected also. The information is entered in the form of one, two, or three digit codes which unambiguously define the facilities.

Reactors are described by the last three digits of the docket number. Table 1 of Appendix G lists reactors under construction in alphabetical sequence with their three-digit docket numbers. For fuel cycle facilities other than reactors an assigned one or two digit number identifies all possible plants. These non-reactor facilities and their numbers are presented in Table 2 of Appendix G.

Licensed reactors may figure in construction event reports since generic faults involving equipment or components do also affect operating reactors; the list of docket numbers for these reactors is shown in Table 3 of Appendix G.

If one facility is the primary one affected, in other words, if a deficiency is found at one specific facility, or primarily applies to one facility, this facility is so designated, and listed. However, if several facilities are all listed as affected, with no one more strongly so than the others, then all the affected facilities are listed, with no one designated as primary. All the affected facilities are then listed by number, as described above.

Two other resources are available for describing affected facilities:

1. If the affected facilities can be described as a class in certain ways, such as all reactors, all PWR's, all Westinghouse reactors, etc., then it is not necessary that they be listed individually, but instead may be listed by means of a single three-character code as shown

in Table 4 of Appendix G. From the user viewpoint, this method of entry does not really matter, since in output listings, or when searching for affected facilities, the list is disaggregated by the software so that for user purposes entry of a class of facilities is entirely equivalent to entering each member of the class individually.

2. Frequently a class of facilities is not directly affected but may be potentially affected. This occurs, for example, if a given component may or may not have been used in all reactors of a given class, or if a particular construction effect (weld cracks, for example) may or may not affect all facilities of the type in question. Then this potential effect is designated by a set of codes, also listed in Table 4 of Appendix H, which describe this property. The effect of such an entry is that, in any listing of facilities in output from the data base such facilities will have a designating symbol ('P') printed next to them, thus making the potential nature of the involvement clear.

III.B.20 Facility Descriptions: This keyed information forms a permanent part of the data base for each facility, and is thus available by way of the facility identifiers. This information includes the facility type (Table 5 of Appendix G), and, for reactors, also the reactor type, the owner, facility name, NRC Region, vendor, and Architect/Engineer.

III.B.21 Manufacturer and Vendor Codes: This keyed information, which traces the defective item or component from manufacture through the stages of sales and purchase by which it eventually arrives at the

point of use, makes use of the SCSS manufacturer code lists. Table 1 of Appendix H lists the vendors/manufacturers by code, and Table 2 of Appendix H lists them sorted alphabetically by name.

The manufacturer is defined to be the organization that actually makes the item in question. If no other vendor is named, it is assumed that the item was sold directly from the manufacturer. This applies especially to major equipment components such as steam generators or circulating pumps.

When there is a chain of vendors they are listed in the order in which they enter, with the first intermediate vendor first.

A special case involves the Architect/Engineers organization. It is sometimes unclear what role this organization plays in procurement of equipment. If it is specifically known that the A/E manufactured or fabricated the item in question he will, of course be listed as manufacturer. Otherwise the A/E is placed in the vendor category.

In cases where the manufacturer sells directly to the user (the licensee) the manufacturer's code is entered in both the manufacturer and vendor fields.

III.B.22 The Text Fields: There are three unkeyed text fields, each with room for 320 characters for each report, which are used for fuller explanations of

1. The Deficiency - its nature and extent, i.e., what happened;
2. The Cause - why it happened;

3. Other text - any other descriptive text, filling in information that did not fit any of the other code fields exactly, as described above, as well as information about unusual features of the reports, such as accession number problems, difficulties in extracting certain information, and similar useful but not otherwise classifiable data.

The text fields are report-related, and a listing of each text field for a given event will display all the text material in that field, each identified as to which report it refers to.

The text fields are searchable by text strings, so that, for example, references to particular accession numbers in OTHER or to manufacturers not mentioned in the code list may be carried out in this manner.

Because of NOAC's interest in systems interaction effects, it was decided to include the words "system interaction" in the OTHER field for those cases where the problem involves interactions between systems. This will facilitate possible later use of the construction deficiency reports for studying systems interaction problems.

IV NRC INPUT AND ACCESS CONTROLS

In addition to the items of information relating to each report and each event that are extracted from the written reports filed with the NRC and entered by the coders at ORNL/NOAC, there are items of information which will be input by NRC staff directly, from terminals either at NRC Headquarters or in the NRC Regional Offices. These items of information relate to the NRC decisions and actions related to the event and are structured to provide a history of ongoing NRC activities with respect to the problems posed by the construction events.

Since such information may potentially be entered into the data base by any one of a large group of NRC staff persons and since it has significance with respect to responsibilities and authorizations, it is necessary to safeguard this input against unauthorized additions, deletions, or alterations. Section IV.A will discuss the nature and format of the NRC input information, and Section IV.B will cover the access controls. The details on how to enter the information into the data base will be presented in Chapter V as part of the user tutorial and the listing of commands (Sections V.C and V.D).

The basic philosophy underlying access control is as follows:

1. Any user of the P21/55DB may access, read, and list anything in the data base, including the NRC-input fields.
2. Changing, deleting, or adding to the contents of the NRC fields is controlled by a two-tier system of access controls to be described below.

IV.A The NRC-Input Information

The NRC-input data for each event consists of four fields, each of

which will be described in turn. With the exception of the fourth field (ASSIGNEE), the information entered in the fields is cumulative in nature, rather than being in write-over mode. In other words, as more information is put in each field, it is appended to what is already there. The date of the entry and the identity of the enterer are automatically made part of the entered information so that a user can tell when the information was put in, and by whom. To provide opportunity for correcting errors in entries, a provision is made for erasing or writing over such information on the date it is entered and by the same person who entered it. Thereafter it cannot be deleted from the NRC terminals, but can be added to at any time. Details will be given in Section V.B.

IV.A.1 The RESOLUTION Field This field is a text field (non-keyed) of up to 400 characters per entry, in which the NRC enterer may put any text he desires. It is intended for a verbal description of the actions and problems involved in resolving or dealing with the problem to which the event in question relates. As stated, the text is automatically "tagged" by the computer with the date of entry and the enterers identification code. Anyone logged on with a USERID and password allowing access to the data base may enter information in this field.

Table IV.1 lists the names and three-letter CERCRS identifying codes of all the NRC staff persons identified at present who can enter information in this field and whose three-character initials may thus appear as an enterer identification in the fields to be described.

IV.A.2 The IEREPORTS Field: This non-keyed field contains the date and identification of NRC information products, such as IE Information

Notices or Bulletins, topical reports, NUREG Guides, standards, etc. which may be associated with the event in question. The entries consist of a date (usual six-number format of month-day-year) followed by up to 12 alphanumeric characters which are the identifying number of the information product (Examples: IE-IN 84-23, NUREG-4326, ANSI/ANS-45.3, etc.). Note that the date referred to here is the date of the information product, not the date the information is entered in the data base. The latter date, along with the enterer's identification code, will be added by the computer as with the other NRC fields. There are thus two dates associated with this field, the date of the information product and the date the item is entered into the P21/55DB. Both this field and the next two are subject to controls on data entry which will be described in Section IV.B.

IV.A.3 The ACTIONS TAKEN Field: This is a keyed field, with codes selected from the authority list shown in Table IV.2. Again, the date of entry and the enterer's identification code are added to the entry by the program, and there is controlled access to entering data into this field (See Section IV.B.)

IV.A.4 The ASSICNEE Field: This keyed field occupies a somewhat special place since it is connected with the assignment of a person responsible for following up the event in question. This entry is written over any previous entries so that only a single entry exists at any one time, and it consists only of the three-character identifier of one of the 79 persons on the NRC staff list (Table IV.1). It identifies the person who has been assigned the responsibility for following up or dealing with the event in question.

The terminal commands for inserting information into these four fields will be discussed in Chapter V.

IV.B Access Controls for NRC Data Entry

In order to prevent unauthorized changes in the NRC data fields, an access control system has been built into the data base which limits the capability for entering data into the NRC fields to certain persons and which records the identity of the enterer in ineraseable fashion. Note again that these controls limit only the changing or entering of information. All information is readable by anyone who has access to the data base.

The access control system is based on the use of a three-letter "CERCERS Identifier" and a four-letter "CERCERS Password" assigned to each of the NRC data base users listed in Table IV.1; this is entirely separate from, and independent of, the "USERID" and "Log-on Password" assigned to the 26 individuals marked with an asterisk in the table. In other words, each of the 80 persons on the list has a CERCERS identifier and a CERCERS password, and the subset of 26 persons shown with an asterisk additionally have a USERID and log-on password. Insofar as possible, the 26 persons with log-on USERIDs will be given the same three-letter symbol for the USERID as they have been given as the CERCERS identifier, but this is not possible in all cases since the CERCERS identifier is always the first-name initial followed by the first two letters of the surname, whereas some of these three-letter sequences were not available for USERID assignment, having been previously assigned to other users.

There are two levels of access control. The first is based on the designation of a single person who alone has the power to assign each event to any one (or several) of the 26 CERCERS identifiers to which USERIDS have been assigned for entering NRC data for that event. This

person is called the Master Entry Control Person (MECP). Only the person logged on as MECP and able to supply the CERCRS identifier and password assigned to the MECP can make these assignments. This is done by means of the special command ASSIGN, which will be discussed in Chapter V. Until such an assignment has been made with respect to a given event, no NRC data, except for information for the RESOLUTION field, can be entered into the record of that event, and thereafter only someone logged on with a USERID matching one of the assigned CERCRS identifiers to whom the event has been assigned can make entries into the IE REPORTS and ACTIONS TAKEN fields of its record.

The second level of assignment is done by the USERID to whom the event has been assigned. He (or they, if more than one has been assigned) can enter any data into the NRC fields of that event, including the fourth field which specifies the person (among the 80 listed in Table IV.1) who is responsible for follow-up.

It is anticipated that in cases where an entire group of people share one USERID, each will know the USERID and its associated log-on password and can thus log on and add to the controlled NRC data fields for that event, as described in IV.A, but his CERCRS identifier will appear printed in association with the entries he makes (which are added to the data base, remember, not written over previous entries) and only if he is able to supply the CERCRS password that matches his CERCRS identifier.

The special character of the fourth field is this: While entries into the RESOLUTION field can be made by anyone logged on using any of the CERCRS identifiers and passwords, and entry into the IE REPORTS and ACTIONS TAKEN fields can be made by anyone who is logged on with the USERID and log-on password to which the event in question has been assigned, the fourth field is accessible only to the person whose CERCRS identifier and CERCRS password

correspond to the log-on password and USERID. Thus, if a group of persons in a Branch, say, all share a given USERID, any one of them can add data to the first three NRC fields of any event assigned to that Branch (i.e., to that Branch's USERID), but only the one person in the Branch whose CERCERS identifier and password identify him as the "owner" of the USERID can make fourth-field entries.

Thus no one can make entries "anonymously." The NRC entries are "tagged" with the CERCERS identifier of the person making them and, barring a knowledge of someone else's CERCERS password, no one can make entries that look as though they were made by someone else.

To summarize:

1. Any NRC data entry into the IE REPORTS and ACTIONS TAKEN fields in the record of an event must first be enabled by having that event assigned to one or more USERIDS, and only persons logged on with that USERID can make NRC data entries to that record. Entry into the RESOLUTION field is not restricted in this manner, but can be made at any time by any holder of a CERCERS identifier and password.
2. Each entry of NRC data into the first three NRC fields of an event record is "tagged" with the date of the entry and the CERCERS identifier of the person making the entry; the use of CERCERS passwords prevents mislabeling entries so as to make them appear to have been made by someone other than the one who did so.
3. The fourth NRC field, which designates the responsible person, is a write-over field which always contains just one person's

initials (CERCERS identifier), but only the person whose log-on USERID and log-on password correspond to his CERCERS identifier and CERCERS password can make or alter this entry.

4. Provisions are made for changing and erasing erroneous entries, but only on the same day as the entry was made, and only by the same enterer (i.e., the same CERCERS identifier and CERCERS password) who made the entry in the first place. This makes it possible to correct true errors but prevents erasing established information entered earlier.

As we have seen, there are good reasons why one of the 26 persons to whom a log-on USERID and log-on password has been assigned may need to share that information with others, since there are more users than USERIDs, but there should almost never be a need to disclose one's CERCERS password to another person; and they should be held closely at all times. An exception may be the case of the one person who has the authority to assign responsibility (the MECF) who may wish to disclose his CERCERS password to one or more other people who will help share the workload of making the assignments.

It is important to remember that the entire control scheme rests on the confidentiality of the passwords, and these should be treated accordingly.

Table IV.1 List of NRC Staff With
CERCS Identifier Codes

<u>Name</u>	<u>CERCRS Identifier</u>
*T. Martin	TMA
*R. Starostecki	RST
*R. Lewis	RLE
*J. Olshinski	JOL
*R. Spessard	RSP
*R. Denise	RDE
*T. Bishop	TBI
H. Bailey	HBA
C. Gould	CGO
V. Hodge	VHO
W. Jones	WJO
*G. Lanik	GLA
S. Long	SLO
O. Merrill	OME
D. Powell	DPO
*C. Rossi	CRO (MECP)
R. Singh	RSI
R. Smith	RSM
I. Villalva	IVI
E. Weiss	EWE
J. Zudans	JZU
*D. Allison	DAL
W. Anderson	WAN
*R. Baer	RBA
W. Collins	WCO
*A. Dromerick	ADR
J. Fair	JFA
J. Henderson	JHE
R. Kiessel	RKI
D. Kirkpatrick	DKI
W. Laudan	WLA
R. Pederson	RPE
V. Thomas	VTH
M. Wegner	MWE

*Names marked with an * identify persons to whom a log-on USERID and log-on password have been assigned.

J. Wigginton	JWI
R. Woodruff	RWO
R. Young	RYO
J. Agee	JAG
E. Baker	EBA
I. Barnes	IBA
D. Breaux	DBR
R. Brickley	RBR
R. Cilimbery	RCI
J. Conway	JCO
J. Costello	JCS
L. Ellershaw	LEL
W. Foster	WFO
D. Fox	DFO
C. Hale	CHA
J. Hamilton	JHA
G. Hubbard	GHU
A. Johnson	AJO
W. Kelley	WKE
N. Le	NLE
N. Moegel	NMO
P. Milano	PMI
R. Nguyen	RNG
D. Norman	DNO
L. Parker	LPA
J. Petrosino	JPE
P. Sears	PSE
J. Sutton	JSU
E. Trottier	ETR
*G. Zech	GZE
*W. Altman	WAL
*G. Ankrum	GAN
*J. Milhoan	JMI
*L. Callan	LCA
*L. Cunningham	LCU
*P. McKee	PMC
*S. Richardson	SRI

*R. Heishman	RHE
*J. Konklin	JKO
*M. Peranich	MPE
*L. Cobb	LCO
E. Merschoff	EME
*V. Patapovs	VPA
*C. Norelius	CNO
R. Shewmaker	RSH

Table IV.2 List of Follow-Up and Closeout
Action Codes for NRC Input Field ACTIONS TAKEN

VASU	VENDOR ACTIONS SUFFICIENT
BUIS	BULLETIN ISSUED
INIS	INFORMATION NOTICE ISSUED
CTBI	COGNIZANT TECHNICAL BRANCH INFORMED
FRNW	FAILURE CONSIDERED RANDOM OR NORMAL WEAR
NGTR	CONSIDERED NON-GENERIC, ASSIGN TO REGION
LPSP	CONSIDERED LOW PRIORITY SAFETY PROBLEM
NO21	ITEM IS NOT A TRUE 10CFR21 ISSUE
LISU	LICENSEE ACTIONS SUFFICIENT
RTSC	RECOMMEND TECHNICAL SPECIFICATION CHANGES
RGSC	RECOMMEND NRC REGULATORY GUIDES OR STANDARDS CHANGES
PADC	REQUIRE PROCEDURAL OR ADMINISTRATIVE CHANGES
DEVE	REQUIRE DESIGN VERIFICATION
HACH	REQUIRE HARDWARE CHANGES

V ACCESSING AND USING THE CERCRS DATA BASE

The 21/55 data base is available to users via the IBM 3033 computer located at the Oak Ridge National Laboratory (ORNL). The construction event reports (CERs) are manipulated by using the commands of the JOSHUA data base language. The purpose of this section is to acquaint the user with the mechanics of logging on and off the IBM 3033 computer, give him a simple tutorial in using the system, and discuss all the commands available in the JOSHUA data base language for use with the 21/55 DB.

Section V.A describes how to log on to the computer and how to begin a session using the 21/55 DB. The basic structure of JOSHUA commands is explained in Section V.B. A simple tutorial on using the 21/55 DB is presented in Section V.C. Section V.E exhibits examples of a few of the available searches and outputs. Specific commands for data base manipulations are given in Section V.D. Inputting NRC data from a remote terminal is explained in Section V.F. Section V.G. describes how to end a session on the 21/55 data base, how to save information developed during the session, and how to log off the computer.

V.A Logging On

The 21/55DB is available to users via remote terminals. The phone numbers for accessing the IBM 3033 computer depend on the baud rating of the terminal to be used and are, to a degree, a matter of choice to the user. One mode of access is via the "Central Network Host" at Oak Ridge, which accesses all computer facilities, and may be used with either 300-baud or 1200-baud terminals, while the other mode, which accesses the IBM-3033 (where the P21/55DB resides) directly is available only to 300-baud users. Figs. V.1A and V.1B show how the log-on is done in both instances.

Fig. V.1A shows the log-on for the first method; the user enters the information circled on the figure. Of course, a "return" or "enter" is required after each line of entry, but it is explicitly shown where a double "return" is needed. The F2 entry selects the IBM-3033 computer. Note the "Full Duplex" setting.

Fig. V.1B shows the log-on with a 300-baud terminal directly to the IBM-3033. This requires "Half-Duplex" setting. Note that the first letter of "Atlogon" in case 2 must be a capital. Of course in either case the characters ESI are replaced by the user's USFRID, and he enters his own log-on password.

Once the computer, in either case, has staged the file from storage to the on-line disk packs, the program returns the message, THIS SESSION IS READY TO BEGIN, followed by an asterisk, and the user can then enter any appropriate P21/55DB commands as described below.

At this point the user may access and use any of the information in the data base, but he cannot change the contents of the records, neither the NOAC-input data nor the NRC-input data. To do the latter will require use of additional password input described in Section IV.A.

V.B Basic Structure of Commands

JOSHUA commands have a very simple syntax. The user is always prompted with either an * or + by JOSHUA when a command is needed. The basic syntax for JOSHUA is * COMMAND (CR) where COMMAND is a specific JOSHUA command and CR is a carriage return. The next section of the report will guide the novice user in using the simpler and most frequently used commands that he will wish to become familiar with first. Section V.D. will then present a fuller list of available commands in alphabetic order.

V.C. Getting Started With the 21/55DB - A Tutorial

A few words on terminology first: What we have been calling an event, i.e., a happening that leads to the submission of one or more reports to the NRC by the affected licensees or suppliers, forms a record in the data base. This record is uniquely identified by the seven-digit CERCERS Identifier (also called CERCERS number) which is assigned when the first report dealing with the event is entered into the data base.

There are a number of keyed fields in each record (they are also "coded" fields in which the items of information are represented by codes selected from an "authority file" of allowed codes) that are associated with "inverted files" which enable the program to perform certain types of searches quickly and easily. More on this later. Table V.1a lists all the keyed fields and where they may be looked up in this manual.

All the other items entered in the data base are unkeyed fields. The distinction is important because keyed and unkeyed fields are searched and manipulated differently, as we shall see.

Table V.1b lists the unkeyed fields, which include the various dates, the text fields, the identifying number fields, and one field which is coded, even though it is unkeyed, which is the CODER field, identifying the person who coded the report for entry into the data base. In the discussion here, we shall underline what the user types in, and leave the computer response un-underlined.

The first command to use in starting any search is the FIND command. It activates a group of records so that other commands can then be used to manipulate these. Assume you are logged on and have accessed the 21/55DB (See Section V.A.). If you now type in FIND ALL (CR) [CR means carriage return, or enter, depending on your terminal], this will activate the entire data base and result in a printout of:

GROUP 1 HAS XXXX EVENTS -- OPERATION: "FIND"

where XXXX is the total number of records (events) in the data base. You could now use other commands, which we shall look at later, to display and manipulate this group (GROUP 1) of records, but it is likely to be a very large group, and the power of the FIND command is that it allows you to select a smaller sub-set of the entire data base by using the keyed fields to choose the events (records) you want. Remember that each time you use the FIND command you are looking into the entire data base to pick out the events you specify. You cannot do one FIND command to create a sub-set and then use another FIND to look into that sub-set to limit it further. You will do this further limiting with other commands.

Using the FIND command to choose a sub-set is done as follows:

FIND (CR)

The system will respond with a "+", which tells you it is ready for you to specify what you want to choose. Your response will be of the form

(Field name or abbreviation) (Field symbol) (CR)

The field name can be any of the keyed fields, using either the full name or the abbreviation shown in Table V.1a. The field symbol is any code from the list of codes for that keyed field. Some possible examples are:

REGION 0 (CR)

which picks all events reported to headquarters (region 0)

FACILITY 333 (CR)

which picks the events listing docket number (50-)333 as one of the facility numbers (333 is the docket number of the FitzPatrick reactor),

SYS DB (CR)

which specifies the system code DB (containment isolation)

After such a case is entered the system comes back with another "+" inviting you to enter more cases. All the cases you enter are combined with "OR" logic," which means that the group you are creating ("activating") will contain all the records that satisfy any of the conditions. It will include each record only once, even if it satisfies several requirements. You may string as many cases together as you wish with this "OP" logic.

When you have finished specifying all the cases you want to string together, respond to the last "+" with

END (CR)

and the computer will respond with a line telling you how many records are in the group you have created. This is now the active group.

You can also combine cases with "AND" logic if you wish to choose only events which satisfy all of the requirements of the cases so combined. This is done "horizontally" as follows: After getting a "+" response to your FIND command, enter a string of cases as follows:

<Field name> symbol <field name> symbol(CR)

where the field name may be either written out or use the abbreviation, and where the symbol which follows must be taken from the list of the selected keyed field. Note the triangular parentheses around the field names. This is strictly necessary only for the second and later fields, but it does not hurt to use it always. An example would be

<STAGE> D <PURPOSE> Q <REASON> C (CR)

which would specify those records which have DQC (change in seismic design requirements) as the three cause codes, and only those records having all three of these codes would be selected.

After such an entry the system again responds with a "+", so one can stack AND and OR selection criteria at will to create an active file with the desired characteristics.

Suppose you want all events that have been reported either to NRC Headquarters or to NRC Region 3 and which have been filed under requirements of 10-CFR-21. It could look like this:

FIND (CR)

+

<REG> 0 <TYPE> 1 (CR)

+

<REG> 3 <TYPE> 1 (CR)

+

END (CR)

Once an active group has been created, it may be saved under a name of your choice, and will be available again later in the same session or in later sessions. However, this uses up memory space and should only be done if there is real need to save a result of a complicated search strategy, or if another set needs to be created with FIND in the same session and later combined with the saved set.

The combining of such saved sets is done with the COMBINE command. The syntax is

COMBINE name1 name2.....n1 n2...(CR)

where "name1," "name2," etc. are the names of saved sets, and "n1," "n2," etc. are the numbers of groups created in the current session, but not named.

It is important to be aware that whenever you create a group with a FIND command, that group is named Group 1, and any earlier groups so formed are gone unless they were saved. As a practical matter, if you plan to use COMBINE to "fuse" several groups, it will probably be safer to name these as you create them. Once you have COMBINED them, you may wish to erase the previous groups if you no longer need them, to save storage space.

Also, one needs to know that the COMBINE command combines groups using "OR" logic. In other words, the combined group will contain, once only, each record that appeared in any of the groups so combined.

Another way of forming a group is to use the BUILD command when you know the "CERCERS numbers" of the events you wish to combine into a group. The syntax is

BUILD n1 n2 n3 n4.....(CR)

where "n1," "n2," etc. are seven-digit CERCERS numbers of the events you wish to put together to form the group. You can only build together as many CERCERS numbers as will fit on one line of the input, but you may use the BUILD command as many times as you wish and then use COMBINE to string them together, as we indicated above.

Of course you can also use COMBINE to meld together groups you have created using FIND and using BUILD. Thus you could use BUILD to add one or more specific events to a group created by the FIND command which, for one reason or another, were not picked up by the FIND logic.

We briefly mentioned above that it is possible to save the active group for later use, but we have not yet discussed how to do this. Very simply the syntax is

SAVE "name"

where "name" is a name of your choosing of up to eight alphanumeric characters (minimum of 1) and of which at least one must be a letter rather than a number. If you had previously used a certain name and now want to reuse it, in other words, if you want to write over the old group saved under a given name with a new one, then use the syntax

SAVE "name" R (CR).

For example, suppose you have saved a group of CERs under the name "Newfile" and now there is a still newer file that you want to put in its place with the same name, then the command

SAVE Newfile R

will result in the old group bearing that name being erased, and the newer one being given that name. If you try to "reuse" a previously assigned name without the R, you'll get a message telling you to put in the R if you wish to replace.

Having saved a group by naming it, you will, of course, wish to make use of it later, perhaps to display information from it, or other manipulations. To do so, you must make it active again, i.e., bring it forward so you can use it. This is done with the ACTIVE command, using the syntax

ACTIVE name (CR)

where "name" is of course the name of the file you wish to activate. You can also use ACTIVE to activate a group you have created earlier in the session, which has not been saved with a name, and this is done with

ACTIVE n (CR)

where "n" is the group number of the group you wish to activate.

To avoid cluttering up the memory with saved groups that are no longer needed, it is necessary to remove unwanted saved groups. This can be done by using the DELETE command. The syntax is

DELETE name

where "name" is the name under which the group had been saved.

A word is in place here about what actually happens when you save or delete a group. Nothing you do removes a group or event from the data base. What is actually saved (or deleted) is a list of the CERCERS numbers, the internal system identifiers, that identify ("point to") the events that make up the group. So when you delete a group, only the list of identifiers is removed; the event records remain in the file for future use.

Let us briefly review what we now know. We can select a subset of the entire data base using the FIND command, we can save such subsets (we call them "groups") with SAVE, and combine groups with COMBINE. We can also create groups by naming specific CERCERS numbers, using BUILD, and we can delete unwanted groups with the DELETE command. We have also learned how to activate saved groups, or groups created earlier in a given session by using the ACTIVE command. Remember that only one group will be active at any given time.

One more simple command is available for altering the contents of a previously created group, and this is the REMOVE command. Its syntax is

REMOVE num (CR)

which causes the event with CERCERS number "num" to be removed from the currently active group.

Having created a group with FIND (and perhaps also BUILD, COMBINE, and REMOVE), you may wish to do more winnowing on this group in the same way as you did with the FIND command to refine your selection further. FIND won't do that, since it starts with the entire data base each time you use it, but you can do it with the SCAN command. The SCAN command uses exactly the same syntax and options as the FIND command, but it operates on the currently active group, not on the entire data base, and it can look at either keyed or unkeyed fields.

In other words, the syntax

SCAN (CR)

will result in a "+" from the program, just as in the FIND command we described earlier, and you may respond in the identical manner, ending with END (CR) when you have done with specifying the requirements you wish to use. SCAN is limited to looking for strings not longer than 12 characters.

While we are discussing SCAN, it will be a good time to mention another command called TEXTSCAN which allows you to search unkeyed (text) fields of the currently active group for one or two strings of text, each of up to 64 characters long. The system will prompt you for the text strings as required. The syntax looks as follows:

TEXTSCAN (CR)

+

'first string (up to 64 characters)' (CR)

+

'second string (up to 64 characters)' (CR)

+

END (CR)

This syntax will search for those records that contain either one of the two strings or both in any order, and create an active group that contains these events. Note the quotation marks that precede and follow the text strings; they are required. If you leave a space between the text string and the quotation mark, the space becomes part of the text string.

You may also use TEXTSCAN to require both strings to be present, and ask that they be present in either order, or regardless of order. This is done by using the words BEFORE, AFTER, or AROUND between the two text strings. For example:

```

TEXTSCAN (CR)
+
'string 1' (CR)
+
BEFORE (CR)
+
'string 2' (CR)
+
END (CR)

```

requires both strings to be present, with string 1 prior to string 2. Similarly AFTER requires string 1 to be behind string 2, and AROUND requires both strings to be present, but in either order.

Table V.1b lists all the unkeyed (text) fields which are searched by use of the TEXTSCAN command.

Another useful command is the SEARCH command. It comes in handy because the 21/55DB is not a static, unchanging collection of records,

but will grow and alter with time. So you may wish to search the data base at a later time in the same way you did earlier, getting a different result, however, because you are selecting from a different (presumably larger) data base. The SEARCH command allows you to do so without having to specify the selection procedure over again. Whenever a previously created group is activated, the search strategy that created it is also restored.

The syntax

SEARCH (CR)

causes the saved search logic that created the currently active group to be reactivated, creating a new group with the same search structure, but selected from the current data base. If you want to, you can then rename the saved group with SAVE name R CR, as we learned earlier, and thus update (or "refresh") the previously saved group.

If you wish to know what the changes are that the SEARCH command resulted in (or compare any two saved sets, for that matter) you can do it with the MATCH and NOMATCH commands. As you might expect by now, the syntax

MATCH name1 name2...n1 n2.... (CR)

causes all the sets with names "name1," "name2," etc. and current numbers "n1," "n2," etc. to be compared, and a new group created which contains those events that occur in all the named and numbered sets. In a sense this is an "AND" logic operation, for it yields a group whose members are members of group "name1" and group "name2" and "n1", etc. Similarly the syntax

NOMATCH name1 name2...n1 n2.... (CR)

forms the group whose members belong to one and only one of the groups listed in the command. This latter command would be used to see what is new in the data base with respect to a certain selection criterion.

Using the latter command to compare a group saved under the name 'oldname,' for example, with a new group created using the same strategy could be done like this:

ACTIVE oldname (CR) (activates the previously created group saved under the name 'oldname')

SEARCH (CR) (re-executes the search strategy that had created the group 'oldname')

SAVE newname (CR) (saves the group so created under the name 'newname')

NOMATCH oldname newname (CR) (creates a new group which has only those events in it that are in only one of the two sets, presumably those that have been found by the search on the new data base but not the old one)

Just to complete these group-manipulating commands, let us also mention NOTFOUND. This command creates a group containing all the records in the data base that are not in the group created by the most recent search operation (the currently active group) but are in the data base. In other words, it creates the group which is the complement of the last-created group out of the entire data base. This could be useful where it is easier to specify some characteristic by exclusion, rather than naming all possible inclusion characteristics, and one could then use the group created with NOTFOUND as the base of further screening using SCAN.

Having learned how to create groups and manipulate them to get just the groups we wish to examine, we now need to learn how to display or graph information about these groups. A number of commands are available to help us analyze and examine what we have selected.

Probably the simplest one to start with is SUMMARY. Just

SUMMARY (CR)

with no additional qualifiers causes a listing of the currently active group in which, on a single line and under a pre-programmed format, the following information is listed for each member of the currently active group:

- the CERCERS number (event number)
- the primary facility
- first component
- second component
- the three cause codes (life stage, specifier, cause type)
- how discovered
- who discovered.

In order to make this output a compact one-line summary, the decodings, i.e., the text equivalents of the code symbols, are not displayed by the SUMMARY output. SUMMARY may also be used to display any one field for the currently active group, be it keyed or nonkeyed. The syntax is

SUMMARY fieldname (CR)

where "fieldname" is the name of any of the fields in Tables V.1a and V.1b. With this command one may, for example, list the titles, any of the dates of interest, the text fields, or the region, as desired. Note that the keyed fields will not be decoded, but the unkeyed fields will, of course, appear full length.

Another display command, which may be useful at times, is DISPLAY. This calls for a listing of the CERCERS numbers of all the events making up the currently active group, or it may be used to list the CERCERS numbers of any previously saved group. In the former case the syntax is simply

DISPLAY (CR)

while in the latter case it is

DISPLAY name (CR)

where "name" is of course the name of the saved group whose CERCRS numbers will be displayed.

A quite different use of DISPLAY is with the syntax

DISPLAY ALL (CR) .

This yields a listing of all the named (saved) groups in the user's storage. It should be used now and then to help you "weed out" saved groups no longer needed.

The most extensive output for given events is obtained by use of the command LIST. It results in a complete listing of all the information in the data base for the events requested, with all keyed fields decoded, so that one need not know any of the code table information to interpret the output. Since this output is relatively voluminous, the syntax is structured toward displaying only one or a few events at a time, though all may of course be listed if desired. The simplest syntax is simply

LIST (CR) .

This results in a listing of the first event in the currently active group.

LIST n (CR)

results in listing the nth event in the currently active group.

LIST n1 n2 (CR)

results in listing events numbered n1, (n1+1), (n1+2)...n2 in the active group. If more than 10 events are requested at a time, the program prompts the user for a YES to make sure he really wants that much output.

For lengthy output, which could tie up a terminal for a long time, one may instead use the commands

PLIST n (CR)

or

PLIST n1 n2 (CR)

which are exactly like the corresponding LIST commands, except that the output does not appear at the user's terminal, but is printed at ORNL on a fast line printer, and can then be mailed to the user. If you use this command, contact E. G. Silver at NOAC to advise him on where to mail your output.

It is also possible to have the system count the number of times a given code from a keyed code list occurs in the currently active set. This is done using the VALUES command. The syntax is

VALUES field (CR)

where "field" specifies the keyed field (see Table V.1a for a listing) in which the entries are to be counted. The output is a listing of the number of times each entry is used, sorted by decreasing number of times used. Entries never used are not printed, so no list of zeroes will appear.

If the word KEYSORT is added to the command, the listing is in alphabetical order by codes, rather than in order of decreasing use.

You may ask for more than one such table with a single VALUES command, simply listing all the tables you want. If you put in KEYSORT, then all the tables following the word will be in alphabetical order, and the word VSORT reverts those following back to the decreasing-order arrangement. For example:

VALUES field1 field2 KEYSORT field3 field4 VSORT field5 (CR)

would give you listings of fields "field1," "field2," and "field5" in normal order (decreasing use) and "field3" and "field4" in alphabetic order.

A more complex "counting" output option is the RELATE command. It will result in producing and displaying a two-dimensional table which lists any one field as column entries and a second field as line entries, and shows the number of times each pair of keyed values occurs in the currently active group. The syntax is

RELATE field1 field2 (CR)

where "field1" and "field2" are the names of the two keyed fields to be used in the table. The table will be arranged by count, i.e., the most frequently found entries are listed first, and the rest in order of decreasing use. This allows one to look at the upper left corner of the full table (which may be very large) where the most significant numbers appear.

Adding the word PERCENT in the command changes the output to show the percentage occurrence rather than the numerical occurrence in each table entry. The use of the word KEYSORT causes the table to be arranged in alphabetical order in the codes rather than in decreasing order by frequency.

Let us now turn our attention to the special commands for inputting NRC data from the NRC terminals. There are only two commands, and these are structured to prompt the user extensively so that it will not be necessary here to go through every possible option in detail.

One of the two NRC commands is ASSIGN, and the other is NRC. The ASSIGN command can be used only by the one person who is designated as the Master Entry Control Person (MECP), and the computer checks that it is indeed the authorized MECP who is using the command by checking:

1. Is this person logged in on the MECP's log-on USERID and with his log-on password?
2. Does he furnish, when requested by the program, the correct CERCERS identifier and CERCERS password?

If both these criteria are satisfied, the command will act on the currently active group. You will remember that such a group can have been created using combinations of FIND, BUILD, COMBINE, etc., commands that we have discussed above.

The command

ASSIGN (CR)

results in a request for the CERCERS ID and Password, and if these are not correctly entered, the program returns an asterisk, without executing the command any further. If the information correctly identifies the MECP, a menu of possible keyword commands instructs the user about his options. It also lists the 26 CERCERS identifiers to which assignment may be made, and their "owners". The MECP has the option of assigning the same CERCERS identifier or identifiers to all the events in the active group by a single response, or he may assign them individually, using the various keyword commands spelled out by the menu to move from one event to the next and assign USERIDs.

Once a CERCERS identifier has been assigned to a given event, anyone logging on using the USERID corresponding to that CERCERS identifier can enter data relating to the IEREPORTS and ACTIONS TAKEN fields into the record of that event. For entry into field 4, the ASSIGNEE field, the CERCERS identifier and password must be those assigned to the USERID owner.

The NRC data entry is done with the command

NRC (CR).

Like ASSIGN, NRC acts on the currently active group, and it also prompts the user for entries. NRC will act on the members of the active group either by assigning a single identifier to the entire active group, i.e. the same identifier to each record in the group, or sequentially, event by event. In the latter case it prompts with:

SELECT THE FIELDS YOU WISH TO ENTER

You may then specify any one or more of the four digits 1, 2, 3, or 4 with the following meanings:

- 1 RESOLUTION TEXT to be entered
- 2 IEREPORTS to be entered
- 3 ACTIONS TAKEN to be entered
- 4 ASSIGNEE to be entered

For example, if you respond to the prompt with:

1 3 (CR)

the program will prompt you for the input to the RESOLUTION TEXT and ACTIONS TAKEN fields for each event in the active group in turn. Using special option commands displayed for you on the menu you can do a number of things: LIST prints out what is already in the field you are about to enter data into;

SKIP skips the current event and goes to the next one (even if you have not yet entered data into all the fields you specified);

ABORT ends the operation of NRC so that it skips the current event and all ~~the~~ events in the active group you have not yet entered data into;

(Blank) goes on to the next case.

Remember that what you enter will be appended to what is already there and is tagged with your CERCRS identifier and the date.

On the day that you entered data into the data base you can also erase it with DELETE. This will be done only, as we said, on the day

you entered it, and if you are logged on with the same CERCERS identifier and password you used when you put the data in. Deleting from the RESOLUTION field is done with the command

DELETE (CR)

which deletes the entire RESOLUTION text entered under your CERCERS identifier and password that day, and deletion from the IEREPORTS and ACTIONS TAKEN fields is done with the command

DELETE N (CR)

in which N is the line number identifying a specific entry in the field you are looking at; this information can be obtained by using the LIST command mentioned above.

In general it must be remembered that the NRC-inputed data does not go directly to the main data base, but rather to the Job Data Set assigned to the user (the USERID). Periodically, all new entries will be transferred to the main data base whence any user can access and see them.

This completes the tutorial discussion of the commands available in the 21/55DB. There are a number of additional commands of a more specialized nature which are not as frequently needed, but which can be found in the alphabetical list of all commands in Section V.D.

Section V.E. contains a few examples of searches and output displays which augment the description found here.

V.D. Specific Commands for Data Base Utilization

Table V.2 lists and defines all the 21/55DB commands. The following subsections of Section V.D. give a short explanation of the function and the syntax of each command.

V.D.1 ACTIVE: The ACTIVE command is used to "activate" a group that was previously created by a sequence of specifications which selected this group. This set of CERs is the group which will be searched by the next screening command, e.g., SCAN, VALUES, etc. When a CER group is made active, the logic which led to that group is also activated. This allows the use of the SEARCH command to re-execute this logic, thereby locating what may be a different record group, if the contents of the data base have changed since the last CER group was located.

Allowed Abbreviation: AC

Syntax: ACTIVE name

(where "name" is the name under which the record group was previously saved by a "SAVE" command)

or: ACTIVE n

(where n is the number of a record group in the currently active searching logic)

V.D.2 ASSIGN: The ASSIGN command can be used only by the MECPP (Master Entry Control Person) and is used to assign a given event to any one of the 26 USERID holders shown with asterisks in Table IV.1. Only after this assignment has been made can NRC data be entered for that event, and only by someone logged on with the assigned USERID. The command acts on the currently active group, and the entire group may be assigned to a given assignee, or assignments can be individually made. The command prompts for entries and lists a menu of available options.

V.D.3 BUILD: The BUILD command is used to explicitly specify the CERs which are included in a CER group. This group can be searched, listed, saved, etc., just as if it had been located by other searching operations.

Syntax: BUILD num1 num2 num3 ...

(where num1 num2 num3 are the CERCRS numbers for the CERs to be put in the list. These are the unique CERCRS numbers given each event when the first report relating to the event is entered into the 21/55DB.)

All numbers in the CER group must be included on the same line as the BUILD command. In the event that more CERs are desired than can be specified in a single line, multiple BUILD commands may be used; then a COMBINE command can be used to combine them into a single list.

V.D.4 COMBINE: The COMBINE command is used to combine two or more groups. CERS which occur in more than one group occur only once in the final group.

Allowed Abbreviation: CO

Syntax: COMBINE name1 name2 name3 n1 n2 n3 ...

(where "name1," "name2," etc are the names of saved record groups and "n1," "n2," "n3," etc. are the record group numbers from the currently active sequence of searching commands)

This is sometimes called an "OR" operation.

V.D.5 COUNT: The COUNT command looks at the entire data base and counts the number of occurrences of each code in the specified keyed field in the data base. It decodes the keys in its output. It can be used either to list all the codes in the chosen field or only the top n values. Normally the table is displayed sorted by count, high-to-low. However, the inclusion of the term KEYSORT anywhere in the command line causes the lines to be sorted alphabetically by keyed code.

Syntax: COUNT field

This produces a count of the use of all codes in the field named "field" in the data base

or: COUNT TOP n field

This produces a count of the top n keys in the data base for the field named.

The command COUNT KEYSORT field

or: COUNT TOPn KEYSORT field

will produce a list of all, or the n most-used codes in the code field sorted alphabetically, respectively.

V.D.6 DELETE: The DELETE command is used to delete a saved record group.

Allowed Abbreviation: DE

Syntax: DELETE name

(where "name" is the name under which the record group was previously saved)

This command does not delete data records from the data base; rather it deletes the record containing pointers which point to data records.

V.D.7 DISPLAY: The DISPLAY command can be used to list the CERCERS numbers of the CERS in either the currently active record group or a previously saved record group. In the latter case, the search logic which led to the "saved" record group is also listed. DISPLAY can also be used to display a list of all named (saved) groups.

Allowed Abbreviation: DI

Syntax: DISPLAY

This results in a display of the CERCERS numbers of all the records in the currently active group.

or: DISPLAY name

This causes a listing of the CERCRS numbers of the previously saved group named "name", as well as a listing (above the table) of the command string that resulted in creating the saved group.

or: DISPLAY ALL

This causes a directory of all record groups which have been saved to be displayed.

In the event that a group contains so many events that listing them would produce a lengthy output, the code will prompt the user to determine if the request should be granted or ignored.

V.D.8 DOCKET: The DOCKET command is used to scan the part of the authority file containing docket information.

Syntax: DOCKET

This causes a display of the keyed information associated with the docket number, including the facility name.

or: DOCKET nnn

This produces the information only concerning the reactor with docket number 50-nnn.

or: DOCKET word1 word2

This results in a list of the data for all reactors for which the text of the docket file contains both the words word1 and word2 in any position. Text in the docket file includes reactor name and facility operator name. More than two words are allowed; they are combined by "AND" logic.

V.D.9 FIND: The FIND command uses inverted files to create groups. Only "keyed" fields can be searched with a FIND. A FIND command is normally the first searching operation in activating a record group.

Allowed Abbreviation: FI or F

Syntax: FIND

System response: "+"

Input: fieldname1 code1 fieldname2 code2 fieldname3 code 3...(CR)

(where fieldname1 is the name (or abbreviation) of a keyed field,

and code1 is one code value for that field, etc.). The field

codes so selected are combined by "AND" logic. The system

response is again "+". Additional lines of field names with

associated code values may be entered, and successive lines are

combined using "OR" logic. When input is complete, the "+" must

be followed by END (CR).

or: FIND *

In this case, the FIND uses the most recently defined

logic table.

or: FIND ALL

This causes all records in the data base to become part

of the active group.

V.D.10 KEYSORT: The KEYSORT command is provided to sort the currently active CER group by CERCRS number. This command might be used prior to listing a CER group if it were desired that it be ordered by CERCRS number. Note that this command only sorts the CERCRS numbers and has no options to look at fields within CERs.

Syntax: KEYSORT

V. D. 11 LIST and PLIST: The LIST and PLIST commands are used to display all the information for a given event. LIST causes the output to be routed to the user's terminal, and PLIST sends it to a printer at ORNL (X-10).

Allowed Abbreviation: LI

Syntax: LIST

(to list the first CER in the "active" group of CERs)

or: LIST n

(to list the nth CER in the "active" group of CERs)

or: LIST n1 n2

(to list CERs numbered n1 through n2 from the "active" group of CERs. In this case, if more than 10 CERs are requested to be listed, the program will also require a "YES" response to be entered to be sure the user has not inadvertently requested the listing of more events than he really wanted)

V.D.12 MATCH: The MATCH command is used to compare the entries in two or more saved groups and activate the group of all CERs which occur in all the specified groups.

Allowed Abbreviation: MA

Syntax: MATCH name1 name2 ... n1 n2 ...

(where "name1," "name2," etc. are the names of the record groups, and "n1," "n2," etc. are the numbers of groups from the current session)

This is sometimes called an "AND" operation.

V.D.13 NOMATCH: The NOMATCH command is used to locate the CERs from two record groups which occur in only one of the lists.

Allowed Abbreviation: NM

Syntax: NOMATCH name1 name2 ... n1 n2 ...

(where "name1," "name2," etc. are the names of saved record groups or are record groups from the currently active searching strategy)

V.D.14 NOTFOUND: The NOTFOUND command is used to determine the complement CER group from the most recent search operation. For example, if a FIND is used to create a group of CERs, the NOTFOUND would create the group of all CERs in the data base not included by the FIND command.

Allowed Abbreviation: NF

Syntax: NOTFOUND

V.D.15 NRC: The NRC command is used by NRC staff from remote terminals to enter data into the four NRC fields:

1. RESOLUTION, a text field with up to 400 characters per entry
2. IEREPORTS, a field in which each entry consists of a report date and a report identifier, such as NUREG number, IE Information Notice number, etc.
3. ACTIONS TAKEN, a keyed field consisting of the resolution codes listed in Table IV.2
4. ASSIGNEE, a field listing the three-character code of the person (see Table IV.1 for available entries) of the NRC staff person assigned follow-up responsibility for the event.

NRC can only be used by someone logged on using the USERID to which the event has been assigned using the ASSIGN command by the MEPC. The 4th field can only be used by matching the CERCRS password and identifier with that assigned to the USERID holder of a USERID assigned to that event.

The program prompts for entries and supplies a menu table listing available options.

Data entered by use of the NRC command is appended to earlier data in the given field, not written over, and is tagged with the CERCRS identifier and password of the person entering it. It can be erased or altered only by the person entering it (as defined by the CERCRS identifier and password) and only on the day the entry was made.

V.D.16 RELATE: The RELATE command is used to determine counts for all combinations of any two keyed fields. Alternatively, the command will determine the percentages for each combination. The output is a two-dimensional table. Rows and columns are sorted by count for the two fields by default, but can be arranged alphabetically if the term KEYSORT is specified anywhere in the command. Both fields will be sorted according to the same scheme. The percentage for all unique combinations can be obtained by including the term PERCENT anywhere in the command string.

Syntax: RELATE field1 field2

or: RELATE field1 field2 KEYSORT

where "field1" and "field2" are the field names.

V.D.17 REMOVE: The REMOVE command is used to remove specific CERs from the currently active group. CERs can be removed by specifying the CERCRS number.

Syntax: REMOVE num1

will remove the CER with the CERCRS number "num1" (a 6-digit number)

V.D.18 SAVE: The SAVE command is provided to allow saving a CER group along with the searching logic which created it.

Allowed Abbreviation: SA

Syntax: SAVE name

where "name" is a one to eight character name under which the list will be catalogued. This name must contain at least one non-blank and non-numeric character.

or: SAVE "name" R

This "R" is added whenever a list with the name "name" already exists and is to be replaced with the new list. If the R is not used and a previously saved group has been given the name you attempt to assign with SAVE, a message is displayed requesting an R if the previously saved group is to be replaced by the new one.

V.D.19 SCAN: The SCAN command is used to search the CERs in the currently active group. Up to 12 characters (the first 12) in any field may be examined using the same procedure as described in FIND. For example, the request can ask for CERs containing component codes DSL (for diesel), PIZZ (for pipes of unknown size and material), and HANG (for pipe hangers) in the COMP2 field, in addition to an arbitrary number of other specifications concerning other fields in the tables. The SCAN command works more slowly than does FIND, but has the advantage that it may be used on a subset of the data base which had previously been created using FIND.

Allowed Abbreviation: SC

Syntax: SCAN

The program then prompts for search parameters with a "+" as described under FIND.

or: SCAN *

In this case, the SCAN uses the existing logic table.

V.D.20 SEARCH: Whenever a "previously saved" record group is activated, the searching logic which led to its location is also activated. The use of the SEARCH command causes the operations in the logic to be re-executed, thereby locating a new group of CERs

if the contents of the data base have changed since the active group was last found. Only commands which process or search for CERs are included in the searching logic. Commands not included are those such as DOCKET, LIST, DISPLAY, etc.

If you wish then to replace the previously saved group with the "refreshed" one you have just created using SEARCH, then use a SAVE name R command (where "name" is the name you saved the group under, and the new group will replace the old with the same name).

Allowed Abbreviation: SE

Syntax: SEARCH

V.D. 21 STOP: The STOP command is used to terminate the interactive session. It should always be used to break from the session in order that all data base cleanup operations can be properly completed. Using the "break" key, for example, may result in the loss of saved data-sets.

Syntax: STOP

V.D. 22 SUMMARY: The SUMMARY command allows the displaying of the CERCERS number, primary facility, system, comp 1, comp 2, the three cause codes, how, and who for each event in the active group. These are the fields displayed using the default SUMMARY command, i.e., SUMMARY with no qualifying additions. SUMMARY may also be used to display other coded fields.

Syntax: SUMMARY

This is the default command which yields the data described above for the active group.

or: SUMMARY field

This results in a listing of the specified field for the active group. Both keyed and text fields are allowed, but only one field may be specified and it must be a single field. For example, cause will not yield all three cause codes, but each one separately can be listed with SUMMARY. Titles are accessible with SUMMARY.

V.D. 23 TABLE: The TABLE command is used to display the current logic table, i.e., the sequence of field specifications used with FIND or SCAN in the most recent search, or in the group most recently activated, in a format that will aid the user in assessing the searching strategy. For example, key codes are decoded into meaningful text.

Allowed Abbreviation: TA

Syntax: TABLE

V.D.24 TEXTSCAN: The TEXTSCAN command allows text-string searching of the text fields. One or two text strings of up to 64 characters each can be specified. By default, the search will locate CERS containing either of the two strings. Alternatively, the search can require both character strings to be present, or can require both character strings to be present in a particular order.

Allowed Abbreviation: TS

Syntax: TEXTSCAN

A "+" prompts for the first text string and then again for the second. Strings must be enclosed in quotes, and only one string can be specified per line. The key terms BEFORE, AFTER, or AROUND can also be specified

when the first character string should be located before the second character string, the first after the second, or the first on either side of the second, respectively. These key terms should be entered on a separate line. If none of these terms are used, a match on either of the two strings will satisfy the search. As with other multi-line commands, an END is required to complete the specification of the TEXTSCAN command, after which the actual search will be made. An ABORT can be used to return to the master program control without performing the text scanning.

V.D.25 VALUES: The VALUES command is used to display the number of times each code in a specified field occurs in the active group.

Syntax: VALUES field1 field2 ...

where field1 field2 etc. are the names of the fields to be counted. Each field is counted separately in sequence.

Unless specified otherwise, the value tables are sorted by the count, i.e., with the most frequent first. The inclusion of the word KEYSORT in the VALUES command will cause the tables for fields after this term to be sorted alphabetically. The term VSORT can be used in an analogous fashion to cause the sorting to return to the "count" ordering.

V.E. Available Searches and Outputs

As described in Section V.C. and V. D., the JOSHUA system has powerful search capabilities. Keyed fields can be searched and text fields scanned as a means of identifying a particular group of CERS of interest to the user. Once the CERS of interest are found,

the information contained in them can be displayed in a number of ways. The two examples which follow are intended to aid a beginning user as a primer for using the 21/55DB rather than as an exhaustive list of the capabilities of the data base.

V.E.1 First Example Search: As Figure V.2 shows, the user executed a FIND ALL command to begin a new search strategy. All CERs in the data base become part of the active list. The user then built an active list of the events of interest by using the BUILD command. The active list then became simply the one event whose CERCRS number was entered. The SUMMARY command was used next. Its result was a listing of the codes for that event. Figure V.3 is an example of the LIST command on the same active CER group, still composed of only CER 990157.

It will be noted that LIST resulted in a much more extensive and 'interpreted' output with verbal translations of the codes. The listing also included all the text entered in the reports relating to the event. The text from the first report is initiated by @01, which is all there is seen in this example. If there were more reports, the text from subsequent ones would be headed by @02, @03, etc., as needed. The REPORT ITEMS listing at the end contains the information on each of the reports. Figure V.4 shows the format of the Section II information in a case where three reports on one event are in the data base.

V.E.2 Example Two: Example Two (Figure V.5) begins with the FIND command, used to create an active list of events involving the Emergency Generator Lube Oil System (CH), or the Emergency Generator Cooling System (CL), or the Emergency Generator Fuel System (CI), or the Emergency Generator Starting System (CK). The SUMMARY TITLE command

was then used to print the CERCRS number and title for each of the eight events found by this search.

Figure V.6 is an example of the RELATE command for this group of eight active CERS. In this example SYSTEM and COMPl are requested for analysis. The command produces a two-dimensional table relating all SYSTEM code values to all COMPl code values. Figure V.7 shows the combined use of the VALUES and KEYSORT commands on the fields SYSTEM, COMPl, COMP2, HOW, and WHO. The VALUES command determines all unique values and the count of their usage for the specified fields. The inclusion of the word KEYSORT in the command caused the tables to be sorted alphabetically.

V.F Ending a CERCERS Session

V.F.1 Saving Searches: The SAVE command allows the saving of a CER group along with the search logic which located it. Figure V.8 shows the execution of an involved CER search strategy. The SAVE command is subsequently used to save and name the CER group and search strategy. The CER group and search strategy are both named .JJR.

Figure V.9 shows how to activate CER group JJR. If additional CERs have been added to the data base since the creation of CER group JJR, the execution of a SEARCH JJR command will find all the CERs which satisfy the search strategy at the time the search is made.

V.F.2 Logging Off: To end a session on the CERCERS data base, the user should respond to the * prompt with STOP (cr). JOSHUA will then print information on the cost of the session and the data base files which were used during the session. The computer will prompt the user by printing READY. The user should respond by typing LOGOFF (cr). Figure V.10 shows a sample of a printout resulting from a user logoff. User input has been underlined.

Fig. V.1-A: Remote Log-On Using Either 300 or 1200 baud Terminal

Logon Method 1: With 300 baud or 1200 baud terminal set:

Parity: even; Duplex: Full Dial:(FTS) 626-5750

CENTRAL NETWORK HOST

WHICH SYSTEM (1 THRU 50)? F2(return) (return)

SELECT A SYSTEM

TYPE RECON, TLOGON, I FOR INTERACT, OR HELP

TLOGON

ACF82003 ACF2, ENTER LOGON ID-

ESI SIZE(2048)

ACF82004 ACF2, ENTER PASSWORD-

XXXXXXXX

TKJ56455I ESI LOGON IN PROGRESS AT 12:22:01 ON JULY 16, 1984

ESI: LINE(T 044 T1005) VOLUME(TSOLB5) TSO USERS(28) X10B 12:22.04PM

READY

EX CERCORS

```

.....
*           NRC/DRNL/NSIC/JOSHUA VERSION OF THE           *
*           CONSTRUCTION EVLNT REPORT CODING               *
*           AND RETRIEVAL SYSTEM                           *
*                                                           *
* THE PRESENT FILES ARE STORED ON A MASS STORAGE VOLUME   *
* WHICH MAY CAUSE A DELAY OF SEVERAL MINUTES IN ORDER    *
* TO STAGE THE DATA ONTO ON-LINE DISK PACKS. DELAYS MAY *
* ALSO OCCUR DURING THE SESSION, WHEN FILES ARE STAGED  *
* BACK ONTO THE MASS STORE FILE TO MAKE ROOM FOR OTHER  *
* USERS.                                                  *
*                                                           *
*                                                           *
.....

```

THE FOLLOWING PARAMETERS ARE USED WITH THE JOSHUA SYSTEM:

PROGRAM = CERCORS

USER = 2222

SCRATCH SPACE = 9

JOB = ESIA0000

DISP = OLD

SPACE = 10

RELEASE = NO

TIMER = OFF

BUFNO = 20

BUFSIZE = 4K

♦♦ THE MASS STORE DEVICE WILL NOW STAGE IN FILES ♦♦ STANDBY

.....

Fig. V.1-B: Remote Log-on Alternative with 300 baud Terminal

Logon Method 2: Available with 300 baud terminal only.

Parity: even; Duplex: Half

Dial: (FTS) 624-7620

ATLOGON

ACF82003 ACF2, ENTER LOGON ID-

ESI SIZE (2048)

ACF82004 ACF2, ENTER PASSWORD-

XXXXXXXXXX

IKJ56455I ESI LOGON IN PROGRESS AT 12:36:49 ON JULY 16, 1984

ESI: LINE(T 049 T1010) VOLUME(TSOLB5) TSO USERS(26) X108 12:36.51PM

READY

E: CERCPS

```

.....
*           NRC/DRNL/NSIC/JOSHUA VERSION OF THE           *
*           CONSTRUCTION EVENT REPORT CODING               *
*           AND RETRIEVAL SYSTEM                           *
*                                                         *
* THE PRESENT FILES ARE STORED ON A MASS STORAGE VOLUME   *
* WHICH MAY CAUSE A DELAY OF SEVERAL MINUTES IN ORDER    *
* TO STAGE THE DATA ONTO ON-LINE DISK PACKS. DELAYS MAY  *
* ALSO OCCUR DURING THE SESSION, WHEN FILES ARE STAGED   *
* BACK ONTO THE MASS STORE FILE TO MAKE ROOM FOR OTHER   *
* USERS.                                                   *
*                                                         *
*                                                         *
.....

```

THE FOLLOWING PARAMETERS ARE USED WITH THE JOSHUA SYSTEM:

```

PROGRAM = CERCPS
USER = 2222           SCRATCH SPACE = 9
JOB = ESIAR000       DISP = OLD     SPACE = 10
RELEASE = NO         TIMER = OFF
BUFNO = 20           BUFSIZE = 4K

```

```

** THE MASS STORE DEVICE WILL NOW STAGE IN FILES ** STANDBY
.....

```

Use of the FIND, BUILD, and SUMMARY Commands

*
FIND ALL

--GROUP 1 HAS 245 EVENTS--OPERATION: "FIND"

*
BUILD 990157

--GROUP 2 HAS 1 EVENTS--OPERATION: "BUILD"

*
SUMMARY

NO	CERCS#	DISCOVERY DATE	PRIMARY FACILITY	SYSTEM	COMP1	COMP2	DIS	SR	CS	NO	NO	NO	NO
1	990157	04/08/92	0	EC	UJX		D	L	M	R	L		

Figure V.3

Use of the LIST CommandLIST

CERORS IDENTIFIER: 820150

CASE TITLE: AUXILIARY FEEDWATER VALVES HAVE DEFICIENT
POWER SUPPLIES

SUBMITTOR'S FORM ID: 82-00

NRC REGION NUMBER: 3 --NORTH CENTRAL STATES

REPORT TYPE: 2 --10 CFR 50.55(E)

FIRST REPORT DATE: 4/ 8/82

SYSTEM: EC --LOW VOLTAGE AC (LESS THAN 600V)

PRIMARY COMPONENT: UJX --POWER SUPPLY, UNINTERRUPTIBLE

HOW DISCOVERED: R --REVIEW OF PROCEDURE/TEST RESULT

WHO DISCOVERED: LI --LICENSEE

CAUSE

STAGE: D --DESIGN
PURPOSE: L --ELECTRICAL
REASON: M --MISTAKEN USE/MISAPPLICATION

MANUFACTURER: 8130--SECHTEL CORP.

(See Continuation)

Figure V.3 (continued)

DEFICIENCY: 001 AUXILIARY FEEDWATER LEVEL CONTROL VALVES ARE NOT SCHEDULED FROM THE CLASS 1E 100V AC PREFERRED (BATTERY-BACKED) POWER SYSTEM, AS REQUIRED BY THE FSAR. THEY ARE ASSIGNED FROM CLASS 1E INSTRUMENT AND CONTROL (NONBATTERY-BACKED) POWER SUPPLIES.

CAUSE: 001 DESIGN MISAPPLICATION OF REQUIREMENT.

OTHER INFORMATION: 001 DESIGN DRAWINGS 7220-E-158(G), 7220-E-31(G), AND 7220-E-32(G) WILL BE REVISED AND FSAR WILL BE REVIEWED TO VERIFY COMPLIANCE TO POWER SYSTEM COMMITMENTS. CORRECTIVE ACTION SCHEDULED TO BE COMPLETE BY 4/30/82.

FACILITIES AFFECTED: 0
: 329 --MIDLAND 1
: 330 --MIDLAND 2

REPORT ITEMS

REPORT DATE: 4/ 9/82
REPORT CLASS: I
ACCESSION NUMBER: 8204160587::
DATE FORM WAS CODED: 11/ 7/83
CODER INITIALS: JT

Figure V.4

Output of Section II CERCRS Information
With More Than One Report Relating to one Event

DEFICIENCY: 001 HIGH TEMPERATURES WHICH COULD CAUSE LOCAL BUCKLING OF STRUCTURAL MEMBERS IN STEEL PLATFORMS INSIDE CONTAINMENT.

CAUSE: 001 THE ORIGINAL DESIGN FAILED TO CONSIDER THE EFFECTS OF ACCIDENT TEMPERATURES.

OTHER INFORMATION: 001 FINAL REPORT DUE 01/29/82. 002 REANALYSIS OF STRUCTURAL STEEL FRAMING WITH THE CRANE WALL WILL BE COMPLETE BY 02/25/82. REANALYSIS OF STRUCTURAL STEEL FRAMING OUTSIDE THE CRANE WALL WILL BE COMPLETE BY 04/22/82. 003 ANALYSIS OF FRAMING WITHIN THE CRANE WALL IS COMPLETE. TESTS TO DETERMINE THE FLEXIBILITY OF FRAMING CONNECTIONS ARE BEING CONDUCTED. ANALYSIS OF FRAMING OUTSIDE THE CRANE WALL WILL BE COMPLETE BY 08/28/82.

FACILITIES AFFECTED: 0
 : 513 --WRPSS 4
 : 460 --WRPSS 1

REPORT ITEMS

 REPORT DATE: 12/23/81
 REPORT CLASS: I
 ACCESSION NUMBER: 8201040115::
 DATE FORM WAS CODED: 10/25/83
 CODER INITIALS: JR

REPORT DATE: 1/29/82
 REPORT CLASS: U1
 ACCESSION NUMBER: 8202050210::
 DATE FORM WAS CODED: 10/25/83
 CODER INITIALS: JR

REPORT DATE: 4/20/82
 REPORT CLASS: U2
 ACCESSION NUMBER: 8204270235::

Figure V.5

Use of the FIND and SUMMARY Commands

*
FIND

+
SYSTEM CH

+
SYSTEM CL

+
SYSTEM CI

+
SYSTEM CK

+
END

***GROUP 1 HAS 8 EVENTS--OPERATION: "FIND"

*
SUMMARY TITLE

NO	CERCS#	CASE TITLE
1	990014	DIESEL GENERATOR LUBE OIL STRAINER FAILS
2	990009	LOCATION OF GOVERNOR LUBE OIL COOLER ON STANDBY DG
3	990028	DG START AIR SENSING LINE IS NOT SEISMICALLY QUALIFIED
4	990043	DIESEL GENERATOR START TIME TOO LONG
5	990022	SEISMIC DEFECT IN DIESEL GENERATOR STARTING AIR SYSTEM
6	990038	INADEQUATE SENSING PIPE ON DIESEL GENERATOR AIR STARTING SYSTEM
7	990149	DIESEL GENERATOR STARTING VALVE ASSEMBLY CAPSCREW DEFICIENT
8	990188	CHECK VALVE IN DIESEL GENERATOR AIR START SYSTEM LEAKS

Figure V.6

Use of the RELATE Command

```

*
RELATE SYSTEM COMP1
FIELD:SYSTEM HAS 3 UNIQUE VALUES
FIELD:COMP1 HAS 7 UNIQUE VALUES

+SYSTEM | CK | CH | CI |
+ | | | |
+ | | | |
+ | | | |
+ | | | |
+ | | | |
+ | | | |
COMP1 + | | | |
-----+-----+-----+-----+-----+
TSG | 2 | 0 | 0 | 2 |
-----+-----+-----+-----+
STNR | 0 | 1 | 0 | 1 |
-----+-----+-----+-----+
CLR | 0 | 1 | 0 | 1 |
-----+-----+-----+-----+
PIZZ | 0 | 0 | 1 | 1 |
-----+-----+-----+-----+
PIAZ | 1 | 0 | 0 | 1 |
-----+-----+-----+-----+
XUZ | 1 | 0 | 0 | 1 |
-----+-----+-----+-----+
CUE | 1 | 0 | 0 | 1 |
-----+-----+-----+-----+
SUM | 5 | 2 | 1 | 8 |

```

Use of the VALUES and KEYSORT Commands

VALUES KEYSORT SYSTEM COMP1 COMP2 HOW WHO

THE ACTIVE LIST OF 8 EVENTS HAS 3 UNIQUE VALUES IN THE SYSTEM FIELD

KEY VALUE	NUMBER OF USES	DESCRIPTION
OH	2 (25.0%)	EMERGENCY GENERATOR LUBE OIL
OF	1 (12.5%)	EMERGENCY GENERATOR FUEL
OK	5 (62.5%)	EMERGENCY GENERATOR STARTING
SECONDS/RECORD:0.00625 (CPU) 0.04000 (CLOCK)--RATIO:0.156		

THE ACTIVE LIST OF 8 EVENTS HAS 7 UNIQUE VALUES IN THE COMP1 FIELD

KEY VALUE	NUMBER OF USES	DESCRIPTION
CLR	1 (12.5%)	COOLER
CVZ	1 (12.5%)	VALVE, CHECK, UNKNOWN MATERIAL
PIAZ	1 (12.5%)	PIPE, LESS THAN 4 INCH DIAMETER, UNKNOWN MATERIAL
PIZZ	1 (12.5%)	PIPE, UNKNOWN DIAMETER, UNKNOWN MATERIAL
STNR	1 (12.5%)	STRAINER
TBG	2 (25.0%)	TUBING
XVZ	1 (12.5%)	VALVE, OTHER TYPE, UNKNOWN MATERIAL
SECONDS/RECORD:0.01500 (CPU) 0.06875 (CLOCK)--RATIO:0.216		

THE ACTIVE LIST OF 8 EVENTS HAS 6 UNIQUE VALUES IN THE COMP2 FIELD

KEY VALUE	NUMBER OF USES	DESCRIPTION
	2 (25.0%)	
CAF	1 (12.5%)	COMPRESSOR
DEL	2 (25.0%)	ENGINE, DIESEL
SL	1 (12.5%)	SENSING LINE
TK	1 (12.5%)	TANK
GB	1 (12.5%)	GOVERNOR
SECONDS/RECORD:0.01375 (CPU)13.11000 (CLOCK)--RATIO:0.001		

THE ACTIVE LIST OF 8 EVENTS HAS 4 UNIQUE VALUES IN THE HOW FIELD

KEY VALUE	NUMBER OF USES	DESCRIPTION
0	2 (25.0%)	QUALIFICATION/ACCEPTANCE/INITIAL TEST OR INSPECTION
1	1 (12.5%)	OTHER TEST/INSPECTION
2	1 (12.5%)	OTHER
3	4 (50.0%)	UNKNOWN
SECONDS/RECORD:0.00625 (CPU) 0.04250 (CLOCK)--RATIO:0.147		

THE ACTIVE LIST OF 8 EVENTS HAS 4 UNIQUE VALUES IN THE WHO FIELD

KEY VALUE	NUMBER OF USES	DESCRIPTION
AE	2 (25.0%)	ARCHITECT/ENGINEER
LI	2 (25.0%)	LICENSEE
MF	2 (25.0%)	MANUFACTURER
VE	2 (25.0%)	VENDOR/SUPPLIER
SECONDS/RECORD:0.00625 (CPU)11.25750 (CLOCK)--RATIO:0.001		

Figure V.8

Use of the SAVE Command

*
FIND AL'

==>GROUP 1 HAS 245 EVENTS--OPERATION: "FIND"

*
SCAN

+
SYSTEM CK

+
END

==>GROUP 2 HAS 5 EVENTS OUT OF 245 SEARCHED--OPERATION: "SCAN"
SECONDS/RECORD:0.00494 (CPU) 0.01314 (CLOCK)--RATIO:0.375

*
SCAN

+
STAGE D

+
END

==>GROUP 3 HAS 4 EVENTS OUT OF 5 SEARCHED--OPERATION: "SCAN"
SECONDS/RECORD:0.00600 (CPU) 0.00600 (CLOCK)--RATIO:0.167

*
SCAN

+
WHO AE

+
END

==>GROUP 4 HAS 2 EVENTS OUT OF 4 SEARCHED--OPERATION: "SCAN"
SECONDS/RECORD:0.00500 (CPU) 0.03500 (CLOCK)--RATIO:0.143

*
SCAN

+
COMP: T8G

+
END

==>GROUP 5 HAS 2 EVENTS OUT OF 2 SEARCHED--OPERATION: "SCAN"
SECONDS/RECORD:0.00500 (CPU) 0.04000 (CLOCK)--RATIO:0.125

*
SCAN

+
COMP: TX

+
END

==>GROUP 6 HAS 1 EVENTS OUT OF 2 SEARCHED--OPERATION: "SCAN"
SECONDS/RECORD:0.00500 (CPU) 0.03000 (CLOCK)--RATIO:0.167

*
SAVE JUR

Activation of a CER Group

*
FIND ALL

==GROUP 1 HAS 245 EVENTS--OPERATION: "FIND"

*
ACTIVE JUR

CER GROUP JUR IS NOW "ACTIVE" WITH 1 CERs

Figure V.10: Ending and Logging Off from P21/55DB*
STOPTHIS SESSION HAS USED 7.23 SECONDS OF CPU TIME AND
HAS BEEN ACTIVE FOR 4945.89 SECONDS

THE APPROXIMATE COST OF THE RUN IS \$ 5.18

NUMBER OF READ REQUESTS	1039
NUMBER OF WRITE REQUESTS	153
NUMBER OF DATA ACCESSSES	2345
NUMBER OF CATALOG ACCESSSES	279

CATALOG DISPLAY

DATA SET **133528 IS ONLINE CATEGORY 0 TYPE 4				
CATALOG LOCATION	12	CREATED 122883	EXPIRES 010184	BADGE
TREE REFERENCE	23	DATA REFERENCE		25
BASE RECORD	357	BASE RECORD		837
RECORDS USED	1	RECORDS USED		44
LAST NODE	22	EXTENT		1
RECORDS ALLOCATED	18	RECORDS ALLOCATED		8900

CATALOG DISPLAY

DATA SET BNCA0000 IS ONLINE CATEGORY 0 TYPE 3				
CATALOG LOCATION	13	CREATED 121583	EXPIRES 123188	BADGE
TREE REFERENCE	23	DATA REFERENCE		27
BASE RECORD	227	BASE RECORD		31701
RECORDS USED	1	RECORDS USED		20
LAST NODE	28	EXTENT		1
RECORDS ALLOCATED	50	RECORDS ALLOCATED		500
BNC JOB DATASET #1				

NUMBER OF READ REQUESTS	1039
NUMBER OF WRITE REQUESTS	153
NUMBER OF DATA ACCESSSES	2345
NUMBER OF CATALOG ACCESSSES	278

CATALOG DISPLAY

DATA SET **133529 IS ONLINE CATEGORY 0 TYPE 4				
CATALOG LOCATION	12	CREATED 122883	EXPIRES 010184	BADGE
TREE REFERENCE	23	DATA REFERENCE		25
BASE RECORD	357	BASE RECORD		837
RECORDS USED	1	RECORDS USED		44
LAST NODE	22	EXTENT		1
RECORDS ALLOCATED	18	RECORDS ALLOCATED		8900

CATALOG DISPLAY

DATA SET BNCA0000 IS ONLINE CATEGORY 0 TYPE 3				
CATALOG LOCATION	13	CREATED 121583	EXPIRES 123188	BADGE
TREE REFERENCE	23	DATA REFERENCE		27
BASE RECORD	227	BASE RECORD		31701
RECORDS USED	1	RECORDS USED		20
LAST NODE	28	EXTENT		1
RECORDS ALLOCATED	50	RECORDS ALLOCATED		500
BNC JOB DATASET #1				

READY
LOGOFF

IKJ564701 BNC LOGGED OFF TSO AT 15:05:10 ON DECEMBER 28, 1983

Table V.1a

Keyed Fields for the 21/55 DB

<u>Field Name</u>	<u>Abbreviated Field Name</u>	<u>Tables of Values</u>	<u>Purpose</u>
REGION	REG	Page III - 9	Region to which reports submitted (0 = Hdqrts, # is region number)
RTYPE	RT	Page III - 10	Report type (10 CFR 21 or 10 CFR 50.55(e) or combination)
COMP1	COMP1	App. C	Primary component involved
COMP2	COMP2	App. C	Secondary component involved
SYSTEM	SYS	App. B	System involved
HOW	HOW	App. E	How the problem was discovered
WHO	WHO	App. F	Who discovered the problem
MFG	MFG	App. H	Manufacturer of the affected item
VENDOR	VEND	App. H	Vendor(s) of the affected items
FACILITY	FAC	App. G	Facility or Facilities involved. Uses 3-digit docked number for reactors
STAGE	STA	App. D	Stage of item life cycle at which problem was discovered
PURPOSE	PUR	App. D	Type of system or function the faulted item relates to
REASON	REA	App. D	Type of failure, i.e., cause of the difficulty
SUB	SUB	App. A	Submitting organization
ACTIONS TAKEN		Table IV.2	NRC input of follow-up or close- out actions
ASSIGNEE	ASG	Table IV.1	NRC input of person (CERCERS identifier assigned responsibility for the event follow-up.

Table V.1b

Unkeyed (Text) Fields for the 21/55DB

<u>Field Name</u>	<u>Abbreviated Field Name</u>	<u>Length</u>	<u>Purpose or Definition</u>
TITLE	TI	up to 64	Title of <u>Event</u>
CODER	-	2	Coder's initials
ICDATE	CD	6	Date the coding of the <u>report</u> was begun
RNUM	RN	8	Sequential <u>report</u> counting number, numbered in the sequence the reports are logged in at NOAC
DCS	DCS	10	NRC accession number of the <u>report</u>
IRDATE	RD	6	Date of the <u>report</u>
SUBID	SID	up to 12	Submitters internal <u>event</u> identification number
DDATE	DD	6	Date of first written report for the <u>event</u>
DEF	DEF	up to 5x64	Verbal description of the nature of the deficiency; texts from each report added to previous texts for the same event
TCAUSE	-	up to 5x64	Verbal description of cause of deficiency; text from each report added to previous text for the event.
OTHER	-	up to 5x64	Auxiliary text describing anything needing expanded explanation; text added to prior t xts for the event.
RESOLUTION	-	up to 400	NRC text describing NRC actions
IEREPORTS	-	{ 6 up to 12	NRC input: date of information product and report number

Table V.2

21/55 DB Command Chart

1. Activate a Group of CERs for Searching.
 - a. FIND - use inverted files to locate records
 - b. BUILD - user specifies record keys
 - c. ACTIVE - activate a previously saved record group
2. Search a Group of CERs.
 - a. SCAN - screen in a global sense (all steps included)
 - b. TEXTSCAN - perform text-string searches on CER abstracts
3. Process a Group of CERs.
 - a. VALUES - produce counts on the use of keyterms
 - b. RELATE - produce cross reference table on unique combinations of keyterms
4. List CERs.
 - a. LIST - produce listing of one or more CERs
5. Manipulate and Combine Record Groups.
 - a. SAVE - store the keys for CERs in the active record group
 - b. ACTIVE - restore a previously saved CER group
 - c. DISPLAY - list the record keys for CERs in the currently active group
 - d. COMBINE - combine two or more groups
 - e. MATCH - locate CERs common to two or more groups
 - f. NOMATCH - locate CERs which occur in only one of two groups
 - g. NOTFOUND - activate the CERs not located by the previous searching operation
 - h. DELETE - remove a "SAVEed" record group
 - i. REMOVE - delete CERs from the currently active record group
6. Display or Edit Searching Logic.
 - a. TABLE - produce a decoded listing of the current searching logic
7. Request Assistance Concerning the Database.
 - a. DOCKET - search information in the Docket file to locate applicable Docket numbers
 - b. COUNT - produce counts for keyterms in the inverted files

Table V.2 (continued)

8. Sort Record Keys.
 - a. KEYSORT - sort the record keys in the current group into ascending order
9. Re-execute a Previously Saved Searching Strategy.
 - a. SEARCH
10. NRC Input.
 - a. ASSIGN - used by MECP to assign events to USERIDs
 - b. NRC - enter all NRC input
11. Terminate this Session.
 - a. STOP

APPENDIX A

LICENSEE CODE TABLES

APPENDIX A - TABLE 1

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LICENSEES OF REACTORS AND FUEL CYCLE FACILITIES

(Sorted Alphabetically by Code Symbols)

ALC	Allied Chemical Corp.
AMI	Atlas Minerals Inc.
APC	Alabama Power Co.
APL	Arkansas Power & Light Co.
APS	Arizona Public Service Co.
BAW	Babcock & Wilcox
BEC	Boston Edison Co.
BCU	Bear Creek Uranium Co.
BGE	Baltimore Gas & Electric Co.
BMI	Battelle Memorial Institute
CEC	Consolidated Edison Co.
CEI	Cleveland Electric Illuminating Co.
CGE	Cincinnati Gas & Electric
COE	Combustion Eng., Inc.
CPC	Consumers Power Co.
CPL	Carolina Power & Light Co.
CWE	Commonwealth Edison Co.
CYA	Conn. Yankee Atomic Power Co.
DEC	Detroit Edison Co.
DLC	Duquesne Light Co.
DLP	Dairyland Power Cooperative
DPC	Duke Power Co.
EFN	Energy Fuels Nuclear, Inc.
EXM	Exxon Minerals
EXN	Exxon Nuclear Co.
FAP	Federal American Partners
FPL	Florida Power & Light Co.
GAC	General Atomic Co.
GEC	General Electric Co.
GPC	Georgia Power Co.

APPENDIX A - TABLE 1

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GSU	Gulf States Utilities
HLP	Houston Lighting & Power Co.
IEL	Iowa Electric Light & Power Co.
IME	Indiana & Michigan Electric Co.
IPC	Illinois Power Co.
JCP	Jersey Central Power & Light Co.
KER	Kerr-McGee
KGE	Kansas Gas & Electric Co.
LIL	Long Island Lighting Co.
LPL	Louisiana Power & Light Co.
MEC	Metropolitan Edison Co.
MIE	Minerals Exploration
MPL	Mississippi Power & Light Co.
MYA	Maine Yankee Atomic Power Co.
NEP	New England Power Co.
NFS	Nuclear Fuel Ser., Inc.
NIC	Northern Indiana Public Service Co.
NMP	Niagara Mohawk Power Co.
NNE	Northeast Nuclear Energy Co.
NPP	Nebraska Public Power District
NSP	Northern States Power Co.
OEC	Ohio Edison Co.
OGP	Ogle Petroleum
OPP	Omaha Public Power District
PET	Petromics, Inc.
PEC	Philadelphia Electric Co.
PEG	Public Service Electric & Gas Co.
PGC	Portland General Electric Co.
PGE	Pacific Gas & Electric Co.
PLR	Plateau Resources
PMC	Pathfinder Mines Corp.
PNY	Power Authority of State of New York

APPENDIX A - TABLE 1

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PPL	Pennsylvania Power & Light Co.
PSC	Public Service Co. of Colorado
PSI	Public Service of Indiana
PSO	Public Service Co. of Oklahoma
PSN	Public Service of New Hampshire
PSP	Puget Sound Power & Light Co.
RAC	Rio Algom Corp.
RGE	Rochester Gas & Electric Corp.
RIC	Rockwell Internatl. Corp.
SCC	South Carolina Electric & Gas Co.
SCE	Southern California Edison Co.
SKM	Silver King Mines
SMU	Sacramento Municipal Util. District
TEC	Toledo Edison Co.
TII	Texas Instruments, Inc.
TUG	Texas Utilities Generating Co.
TVA	Tennessee Valley Authority
UCC	Union Carbide
UEC	Union Electric Co.
UNC	United Nuclear Corp.
VEP	Virginia Electric & Power Co.
VYC	Vermont Yankee Nuclear Power Corp.
WEC	Westinghouse Elec. Co.
WEP	Wisconsin Electric Power Co.
WMP	Wisconsin-Michigan Power Co.
WNC	Western Nuclear Corp.
WPP	Wash. Public Power Supply System
WPS	Wisconsin Public Service Corp.
WYM	Wyoming Minerals
YAC	Yankee Atomic Electric Co.

APPENDIX A - TABLE 2

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LICENSEES OF REACTORS AND FUEL CYCLE FACILITIES

(Sorted Alphabetically by Name)

Alabama Power Co.	APC
Allied Chemical Corp.	ALC
Arizona Public Service Co.	APS
Arkansas Power & Light Co.	APL
Atlas Minerals Inc.	AMI
Babcock & Wilcox	BAW
Baltimore Gas & Electric	BGE
Battelle Memorial Institute	BMI
Bear Creek Uranium Co.	BCU
Boston Edison Co.	BEC
Carolina Power & Light Co.	CPL
Cincinnati Gas & Electric	CGE
Cleveland Electric Illuminating Co.	CEI
Combustion Eng., Inc.	COE
Commonwealth Edison Co.	CWE
Connecticut Yankee Atomic Power Co.	CYA
Consolidated Edison Co.	CEC
Consumers Power Co.	CPC
Dairyland Power Cooperative	DLP
Detroit Edison Co.	DEC
Duke Power Co.	DPC
Duquesne Light Co.	DLC
Energy Fuels Nuclear, Inc.	EFN
Exxon Minerals	EXM
Exxon Nuclear Co.	EXN
Federal American Partners	FAP
Florida Power & Light Co.	FPL
General Atomic Co.	GAC
General Electric Co.	GEC
Georgia Power Company	GPC
Gulf States Utilities	GSU
Houston Lighting & Power Co.	HLP

APPENDIX A - TABLE 2

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Illinois Power Co.	IPC
Indiana & Michigan Electric Co.	IME
Iowa Electric Light & Power Co.	IEL
Jersey Central Power & Light Co.	JCP
Kansas Gas & Electric Co.	KGE
Kerr-McGee	KER
Long Island Lighting Co.	LIL
Louisiana Power & Light Co.	LPL
Maine Yankee Atomic Power Co.	MYA
Metropolitan Edison Co.	MEC
Minerals Exploration	MIE
Mississippi Power & Light Co.	MPL
Nebraska Public Power District	NPP
New England Power Co.	NEP
Niagara Mohawk Power Co.	NMP
Northeast Nuclear Energy Co.	NNE
Northern Indiana Public Service Co.	NIC
Northern States Power Co.	NSP
Nuclear Fuel Ser., Inc.	NFS
Ogle Petroleum	OGP
Ohio Edison Co.	OEC
Omaha Public Power District	OPP
Pacific Gas & Electric Co.	PGE
Pathfinder Nines Corp.	PMC
Pennsylvania Power & Light Co.	PPL
Petromics, Inc.	PET
Philadelphia Electric Co.	PEC
Plateau Resources	PLR
Portland General Electric Co.	PGC
Power Authority of State of New York	PNY
Public Service Co. of Colorado	PSC
Public Service Co. of Oklahoma	PSO
Public Service Electric & Gas Co.	PEG
Public Service of Indiana	PSI
Public Service of New Hampshire	PSN

APPENDIX A - TABLE 2

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Puget Sound Power & Light Co.	PSP
Rio Algom Corp.	RAC
Rochester Gas & Electric Corp.	RGE
Rockwell International Corp.	RIC
Sacramento Municipal Util. District	SMU
Silver King Mines	SKM
South Carolina Electric & Gas Co.	SCC
Southern California Edison Co.	SCE
Tennessee Valley Authority	TVA
Texas Instruments, Inc.	TII
Texas Utilities Generating Co.	TUG
Toledo Edison Co.	TEC
Union Carbide	UCC
Union Electric Co.	UEC
United Nuclear Corp.	UNC
Vermont Yankee Nuclear Power Corp.	VYC
Virginia Electric & Power Co.	VEP
Washington Public Power Supply System	WPP
Western Nuclear Corp.	WNC
Westinghouse Elec. Co.	WEC
Wisconsin Electric Power Co.	WEP
Wisconsin-Michigan Power Co.	WMP
Wisconsin Public Service Corp.	WPS
Wyoming Minerals	WYM
Yankee Atomic Electric Co.	YAC

APPENDIX B

SYSTEM CODE LISTS

APPENDIX B - TABLE 1

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SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

<u>CODE</u>	<u>DESCRIPTION</u>
AA	REACTOR CORE
AB	CONTROL ROD DRIVE (PWR)
AC	CONTROL ROD DRIVE (BWR)
AD	REACTOR VESSEL
AE	PRIMARY COOLANT (PWR)
AF	PRESSURIZER (PWR)
AH	STEAM GENERATOR (PWR)
AI	RECIRCULATING WATER (BWR)
BA	AUXILIARY FEEDWATER (PWR)
BB	ISOLATION CONDENSER (BWR)
BC	REACTOR CORE ISOLATION COOLING (BWR)
BD	EMERGENCY BORATION (PWR)
BE	STANDBY LIQUID CONTROL (BWR)
BF	RESIDUAL HEAT REMOVAL (PWR)
BH	RESIDUAL HEAT REMOVAL (BWR)
BI	LOW PRESSURE COOLANT INJECTION (BWR)
BK	CHEMICAL AND VOLUME CONTROL (PWR)

SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

<u>CODE</u>	<u>DESCRIPTION</u>
BL	INTERMEDIATE PRESSURE INJECTION (PWR)
BN	HIGH PRESSURE COOLANT INJECTION (BWR)
BP	STEAM GENERATOR PRESSURE RELIEF (PWR)
BR	NUCLEAR BOILER OVERPRESSURE PROTECTION (BWR)
BS	CORE FLOODING ACCUMULATOR (PWR)
BT	UPPER HEAD INJECTION (PWR)
BW	HIGH PRESSURE CORE SPRAY (BWR)
BX	LOW PRESSURE CORE SPRAY (BWR)
CA	COMPONENT COOLING WATER
CB	ESSENTIAL RAW COOLING/ SERVICE WATER
CC	ESSENTIAL COMPRESSED AIR
CD	BORATED/ REFUELING WATER STORAGE (PWR)
CE	REACTOR WATER STORAGE (BWR)
CF	CONDENSATE STORAGE
CH	EMERGENCY GENERATOR LUBE OIL

APPENDIX E - TABLE 1

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SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

<u>CODE</u>	<u>DESCRIPTION</u>
CI	EMERGENCY GENERATOR FUEL
CK	EMERGENCY GENERATOR STARTING
CL	EMERGENCY GENERATOR COOLING
DA	SPENT FUEL POOL/ REFUELING POOL COOLING AND CLEANUP
DB	CONTAINMENT ISOLATION
DC	MAIN STEAM ISOLATION VALVE LEAKAGE CONTROL
DD	CONTAINMENT ISOLATION LEAKAGE CONTROL
DE	CONTAINMENT SPRAY
DF	CONTAINMENT PRESSURE SUPPRESSION MAKE-UP (BWR)
DH	CONTAINMENT COMBUSTIBLE GAS CONTROL
DI	CONTAINMENT ICE CONDENSER (PWR)
EA	HIGH VOLTAGE AC (GREATER THAN 35KV)
EB	MEDIUM VOLTAGE AC (35KV TO 600V)
EC	LOW VOLTAGE AC (LESS THAN 600V)

APPENDIX B - TABLE 1

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SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

<u>CODE</u>	<u>DESCRIPTION</u>
ED	VITAL INSTRUMENT, CONTROL, AND COMPUTER AC
EE	DC
EF	ELECTRICAL HEAT TRACING
EH	EMERGENCY POWER GENERATION
EI	LIGHTING AND TAXED MOTIVE POWER
EK	SECURITY
EL	COMMUNICATION
EN	CONDUIT AND CABLE TRAY
EP	GROUNDING AND CATHODIC PROTECTION
FA	MAIN STEAM
FB	TURBOGENERATOR
FC	TURBOGENERATOR TURBINE STEAM SEALING
FD	MAIN CONDENSER
FE	NON-CONDENSABLE GASES EXTRACTION
FF	TURBINE BYPASS
FH	STEAM EXTRACTION

APPENDIX B - TABLE 1

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SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

<u>CODE</u>	<u>DESCRIPTION</u>
FI	CONDENSATE AND FEEDWATER
FK	MOISTURE SEPARATORS, REHEATERS
FL	VARIOUS THERMAL CYCLE DRAINS AND VENTS
FN	FEEDWATER CHEMISTRY CONTROL
FP	CONDENSATE DEMINERALIZER
FR	CIRCULATING WATER (OPEN CYCLE)
FS	CIRCULATING WATER (CLOSED CYCLE)
FT	SEAL WATER
HA	REACTOR BUILDING HVAC (PWR)
HB	REACTOR BUILDING HVAC (BWR)
HC	PRIMARY CONTAINMENT VACUUM RELIEF
HD	SECONDARY CONTAINMENT RECIRCULATION AND EXHAUST
HE	DRYWELL/ TORUS HVAC AND PURGE (BWR)
HF	REACTOR AUXILIARY BUILDING HVAC
HH	CONTROL BUILDING HVAC
HI	EMERGENCY GENERATOR HVAC

APPENDIX B - TABLE 1

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SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

<u>CODE</u>	<u>DESCRIPTION</u>
HK	FUEL BUILDING HVAC
HL	TURBINE BUILDING HVAC (PWR)
HN	TURBINE BUILDING HVAC (BWR)
HP	WASTE MANAGEMENT BUILDING HVAC
HR	PUMPING STATIONS HVAC
HS	MISCELLANEOUS STRUCTURES HVAC
HT	CHILLED WATER
HW	PLANT STACK
IA	ALARM/ ANNUNCIATOR
IB	COMPUTER
IC	CONTROL ROOM PANELS
ID	AUXILIARY (BACKUP) CONTROL AREA PANELS
IE	LOCAL CONTROL PANELS
IF	FIRE DETECTION
IG	ENVIRONMENTAL MONITORING
IH	EMERGENCY GENERATOR INSTRUMENTATION AND CONTROLS
II	TURBOGENERATOR INSTRUMENTATION AND CONTROL

SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

<u>CODE</u>	<u>DESCRIPTION</u>
IJ	PLANT MONITORING
IK	IN-CORE AND EX-CORE NEUTRON MONITORING
IL	LEAK MONITORING
IN	RADIATION MONITORING
IP	REACTOR POWER CONTROL (PWR)
IR	REACTOR POWER CONTROL (BWR)
IS	RECIRCULATION FLOW CONTROL (BWR)
IT	FEEDWATER CONTROL
IU	REACTOR PROTECTION
Iv	ENGINEERED SAFETY FEATURES ACTUATION
IX	SOLID STATE PROTECTION/CONTROL
IY	ATWS
IZ	NON-NUCLEAR INSTRUMENTATION
KA	AUXILIARY STEAM
KB	SAMPLING
KC	CONTROL AND SERVICE AIR

SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

<u>CODE</u>	<u>DESCRIPTION</u>
KD	DEMINERALIZED WATER
KE	MATERIAL AND EQUIPMENT HANDLING
KF	PIPE PROTECTION
KH	COMPRESSED GAS
KI	POTABLE AND SANITARY WATER
KK	INSULATING OIL
KL	FUEL STORAGE
KN	STEAM GENERATOR STARTUP
KP	LUBE OIL
KR	BORON RECOVERY
KS	CONTROL ROD DRIVE COOLING WATER
KT	RAW COOLING WATER
KW	RAW SERVICE WATER
KX	CHEMICAL ADDITIVE INJECTION
PA	ADMINISTRATIVE ACTIVITY
PC	CONSTRUCTION ACTIVITY
PD	DESIGN ACTIVITY
PF	FABRICATION ACTIVITY

APPENDIX B - TABLE 1

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SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

<u>CODE</u>	<u>DESCRIPTION</u>
PI	INSTALLATION ACTIVITY
PM	MAINTENANCE/REPAIR ACTIVITY
PO	OPERATION ACTIVITY
PR	RADIATION PROTECTION ACTIVITY
PT	TEST/CALIBRATION ACTIVITY
PX	OTHER ACTIVITY
PZ	UNKNOWN ACTIVITY
SA	PRIMARY REACTOR CONTAINMENT (PWR)
SB	SECONDARY REACTOR CONTAINMENT (PWR)
SC	REACTOR DRYWELL (BWR)
SD	REACTOR TCRUS/ SUPPRESSION POOL (BWR)
SE	SECONDARY REACTOR CONTAINMENT (BWR)
SF	REACTOR AUXILIARY BUILDING
SH	CONTROL BUILDING
SI	EMERGENCY GENERATOR BUILDING
SK	FUEL BUILDING

SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

<u>CODE</u>	<u>DESCRIPTION</u>
SL	TURBINE BUILDING
SN	WASTE MANAGEMENT BUILDING
SP	PUMPING STATIONS
SR	COOLING TOWERS
SS	SPRAY POND
ST	SWITCHYARD
SW	MISCELLANEOUS/ UNKNOWN STRUCTURES
SY	ENVIRONMENT (EXTERNAL TO ANY STRUCTURE)
WA	LIQUID RADWASTE
WB	SOLID RADWASTE
WC	GASEOUS RADWASTE (PWR)
WD	GASEOUS RADWASTE (BWR)
WE	NON-RADIOACTIVE WASTE (LIQUID, SOLID, & GASEOUS)
WF	STEAM GENERATOR BLOWDOWN (PWR)
WH	COOLING TOWER BLOWDOWN
WI	PLANT DRAINAGE
WK	EQUIPMENT DRAINAGE (INCLUDING VENTS)

SYSTEM CODES SORTED BY CODE WITH DESCRIPTION

CODE	DESCRIPTION
----	-----
WL	ROOF DRAINAGE
WN	SUPPRESSION POOL CLEANUP (BWR)
WP	REACTOR WATER CLEANUP (BWR)
XX	INITIAL UNIT CONDITIONS/ UNIT EFFECTS
YY	EFFECT ON ENVIRONMENT/ PERSONNEL
ZX	OTHER
ZY	MULTIPLE KNOWN
ZZ	UNKNOWN

APPENDIX B - TABLE 2

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PERMUTED LISTING OF SYSTEM CORE DESCRIPTIONS
(WITH CODES)

THIS INDEX IS ONE IN WHICH THE REPORT TITLES ARE PERMUTED AROUND SIGNIFICANT WORDS WHICH APPEAR IN THE TITLE. THE INDEX WORDS ARE ARRANGED ALPHABETICALLY IN A COLUMN IN THE CENTER OF THE PAGE WITH THE TITLE PERMUTED AROUND THEM. (# INDICATES BEGINNING OF TITLE, * INDICATES END OF TITLE.)

#HIGH VOLTAGE	AC (GREATER THAN 35KV)*	EA
#LOW VOLTAGE	AC (LESS THAN 600V)*	EC
#MEDIUM VOLTAGE	AC (35KV TO 600V)*	EB
#VITAL INSTRUMENT, CONTROL, AND COMPUTER	AC*	ED
#CORE FLOODING	ACCUMULATOR (PWR)*	ES
#ADMINISTRATIVE	ACTIVITY*	EA
#CONSTRUCTION	ACTIVITY*	PC
#DESIGN	ACTIVITY*	PD
#FABRICATION	ACTIVITY*	PF
#INSTALLATION	ACTIVITY*	PI
#MAINTENANCE/REPAIR	ACTIVITY*	PM
#OPERATION	ACTIVITY*	PO
#RADIATION PROTECTION	ACTIVITY*	PR
#TEST/CALIBRATION	ACTIVITY*	PT
#OTHER	ACTIVITY*	PX
#UNKNOWN	ACTIVITY*	PZ
#ENGINEERED SAFETY FEATURES	ACTUATION*	IA
#CHEMICAL	ADDITIVE INJECTION*	KX
#	ADMINISTRATIVE ACTIVITY*	PA
#ESSENTIAL COMPRESSED	AIR*	CC
#CONTROL AND SERVICE	AIR*	KC
#	ALARM/ ANNUNCIATOR*	IA
#ALARM/	ANNUNCIATOR*	IA
#ENVIRONMENT (EXTERNAL TO	ANY STRUCTURE)*	SY
#AUXILIARY (BACKUP) CONTROL	AREA PANELS*	ID
#	ATS*	IY
#	AUXILIARY (BACKUP) CONTROL AREA PANELS*	IO
#REACTOR	AUXILIARY BUILDING HVAC*	MF
#REACTOR	AUXILIARY BUILDING*	SP
#	AUXILIARY FEEDWATER (PWR)*	BA
#	AUXILIARY STEAM*	KA
#AUXILIARY (BACKUP) CONTROL AREA PANELS*		ID
#STEAM GENERATOR	BLOWDOWN (PWR)*	BF
#COOLING TOWER	BLOWDOWN*	BR
#NUCLEAR	BOILER OVERPRESSURE PROTECTION (BWR)*	BR
#	BORATED/ REFUELING WATER STORAGE (PWR)*	CD
#EMERGENCY	BORATION (PWR)*	BD
#	BORON RECOVERY*	KR
#REACTOR	BUILDING HVAC (BWR)*	HE
#TURBINE	BUILDING HVAC (BWR)*	HN
#REACTOR	BUILDING HVAC (PWR)*	HA
#TURBINE	BUILDING HVAC (PWR)*	HL
#REACTOR AUXILIARY	BUILDING HVAC*	HF
#CONTROL	BUILDING HVAC*	HM
#FUEL	BUILDING HVAC*	HK
#WASTE MANAGEMENT	BUILDING HVAC*	HP
#REACTOR AUXILIARY	BUILDING*	SP
#CONTROL	BUILDING*	SH
#EMERGENCY GENERATOR	BUILDING*	SI
#FUEL	BUILDING*	SK
#TURBINE	BUILDING*	SL
#WASTE MANAGEMENT	BUILDING*	SN
#CONTROL ROD DRIVE (BWR)*		AC
#RECIRCULATING WATER (BWR)*		AI
#ISOLATION CONDENSER (BWR)*		BB
#REACTOR CORE ISOLATION COOLING (BWR)*		BC
#STANDBY LIQUID CONTROL (BWR)*		BE
#RESIDUAL HEAT REMOVAL (BWR)*		BN
#LOW PRESSURE COOLANT INJECTION (BWR)*		BI
#HIGH PRESSURE COOLANT INJECTION (BWR)*		BN
#NUCLEAR BOILER OVERPRESSURE PROTECTION (BWR)*		BR
#HIGH PRESSURE CORE SPRAY (BWR)*		BN
#LOW PRESSURE CORE SPRAY (BWR)*		BX
#REACTOR WATER STORAGE (BWR)*		CE
ACCENTINMENT PRESSURE SUPPRESSION MAKE-UP (BWR)*		DF
#REACTOR BUILDING HVAC (BWR)*		HB
#DRYWELL/ TOWER HVAC AND PURGE (BWR)*		HE
#TURBINE BUILDING HVAC (BWR)*		HN

APPENDIX B - TABLE 2

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PERMITTED LISTING OF SYSTEM CODE DESCRIPTIONS
(WITH CODES)

#REACTOR POWER CONTROL (BWR)*		IA
#RECIRCULATION FLOW CONTROL (BWR)*		IS
#REACTOR DRYWELL (BWR)*		SC
#REACTOR TURBINE SUPPRESSION POOL (BWR)*		SO
#SECONDARY REACTOR CONTAINMENT (BWR)*		SE
#GASEOUS RAHWASTE (BWR)*		WO
#SUPPRESSION POOL CLEANUP (BWR)*		WN
#REACTOR WATER CLEANUP (BWR)*		WP
#TURBINE BYPASS*		WF
#CONDUIT AND CABLE TRAY*		EN
#GROUNDING AND CATHODIC PROTECTION*		EP
# CHEMICAL ADDITIVE INJECTION*		KA
# CHEMICAL AND VOLUME CONTROL (PWR)*		KK
#FEEDWATER CHEMISTRY CONTROL*		FN
# CHILLED WATER*		HT
# CIRCULATING WATER (CLOSED CYCLE)*		FS
# CIRCULATING WATER (OPEN CYCLE)*		FR
#SUPPRESSION POOL CLEANUP (BWR)*		WN
#REACTOR WATER CLEANUP (BWR)*		WP
#SPENT FUEL POOL/ REFUELING POOL COOLING AND CLEANUP*		QA
#CIRCULATING WATER (CLOSED CYCLE)*		FS
#CONTAINMENT COMBUSTIBLE GAS CONTROL*		QM
# COMMUNICATION*		EL
# COMPONENT COOLING WATER*		CA
#ESSENTIAL COMPRESSED AIR*		CC
# COMPRESSED GAS*		KM
#VITAL INSTRUMENT CONTROL AND COMPUTER AC*		EO
# COMPUTER*		IB
#NON-CONDENSABLE GASES EXTRACTION*		FE
# CONDENSATE AND FEEDWATER*		PI
# CONDENSATE DEMINERALIZER*		PP
# CONDENSATE STORAGE*		CP
# ISOLATION CONDENSER (BWR)*		BB
#CONTAINMENT ICE CONDENSER (PWR)*		OI
#RAIN CONDENSER*		PO
#INITIAL UNIT CONDITIONS/ UNIT EFFECTS*		XX
# CONDUIT AND CABLE TRAY*		EN
# CONSTRUCTION ACTIVITY*		PC
#SECONDARY REACTOR CONTAINMENT (BWR)*		SE
#PRIMARY REACTOR CONTAINMENT (PWR)*		SA
#SECONDARY REACTOR CONTAINMENT (PWR)*		SB
# CONTAINMENT COMBUSTIBLE GAS CONTROL*		DM
# CONTAINMENT ICE CONDENSER (PWR)*		OI
# CONTAINMENT ISOLATION LEAKAGE CONTROL*		OO
# CONTAINMENT ISOLATION*		OB
# CONTAINMENT PRESSURE SUPPRESSION MAKE-UP (BWR)*		OP
#SECONDARY CONTAINMENT RECIRCULATION AND EXHAUST*		HO
# CONTAINMENT SPRAYS*		OE
#PRIMARY CONTAINMENT VACUUM RELIEF*		HC
#STANDBY LIQUID CONTROL (BWR)*		BE
#REACTOR POWER CONTROL (PWR)*		IR
#RECIRCULATION FLOW CONTROL (BWR)*		IS
#CHEMICAL AND VOLUME CONTROL (PWR)*		KK
#REACTOR POWER CONTROL (PWR)*		IP
# CONTROL AND SERVICE AIR*		KC
#AUXILIARY (BACKUP) CONTROL AREA PANELS*		IO
# CONTROL BUILDING HVAC*		HM
# CONTROL BUILDING*		SH
#LOCAL CONTROL PANELS*		IE
# CONTROL ROD DRIVE (BWR)*		AC
# CONTROL ROD DRIVE (PWR)*		AB
# CONTROL ROD DRIVE COOLING WATER*		AS
# CONTROL ROOM PANELS*		IC
#RAIN STEAM ISOLATION VALVE LEAKAGE CONTROL*		DC
#CONTAINMENT ISOLATION LEAKAGE CONTROL*		OD
#CONTAINMENT COMBUSTIBLE GAS CONTROL*		OH
#FEEDWATER CHEMISTRY CONTROL*		FN
#TURBOGENERATOR INSTRUMENTATION AND CONTROL*		II
#FEEDWATER CONTROL*		IT
#SOLID STATE PROTECTION/ CONTROL*		IX
#VITAL INSTRUMENT CONTROL AND COMPUTER AC*		EO
#EMERGENCY GENERATOR INSTRUMENTATION AND CONTROLS*		IH
#PRIMARY COOLANT (PWR)*		AE
#LOW PRESSURE COOLANT INJECTION (BWR)*		BI
#HIGH PRESSURE COOLANT INJECTION (BWR)*		BN
#REACTOR CORE ISOLATION COOLING (BWR)*		BC
#SPENT FUEL POOL/ REFUELING POOL COOLING AND CLEANUP*		QA
# COOLING TOWER BLOWDOWN*		WH
# COOLING TOWERS*		SR
#COMPONENT COOLING WATER*		CA
#CONTROL ROD DRIVE COOLING WATER*		KS
#RAW COOLING WATER*		KT
#EMERGENCY GENERATOR COOLING*		CL

APPENDIX B - TABLE 2

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PERMUTED LISTING OF SYSTEM CODE DESCRIPTIONS
(WITH CODES)

#ESSENTIAL RAW	COOLING/ SERVICE WATER*	CB
#IN-	CORE AND EX-CORE NEUTRON MONITORING*	IK
#REACTOR	CORE FLOODING ACCUMULATOR (PWR)*	IS
#IN-CORE AND EX-	CORE ISOLATION COOLING (BWR)*	UC
#HIGH PRESSURE	CORE NEUTRON MONITORING*	IK
#LOW PRESSURE	CORE SPRAY (BWR)*	BS
#REACTOR	CORE SPRAY (BWR)*	SA
#VARIOUS THERMAL	CORE*	AA
#CIRCULATING WATER (OPEN	CYCLE CHAINS AND VENTS*	FL
#CIRCULATING WATER (CLOSED	CYCLE)*	FR
	CYCLE)*	FS
	# DC*	EE
	# DEMINERALIZED WATER*	KD
#CONDENSATE	DEMINERALIZER*	PP
	# DESIGN ACTIVITY*	PO
#FIRE	DETECTION*	IF
#EQUIPMENT	DRAINAGE (INCLUDING VENTS)*	WK
#PLANT	DRAINAGE*	VL
#ROOF	DRAINAGE*	VL
#VARIOUS INTERNAL CYCLE	DRAINS AND VENTS*	FL
#CONTROL ROD	DRIVE (BWR)*	AC
#CONTROL ROD	DRIVE (PWR)*	AB
#CONTROL ROD	DRIVE COOLING WATER*	KS
#REACTOR	DRYWELL (BWR)*	SC
	# DRYWELL/ TONUS HVAC AND PURGE (BWR)*	HE
	# EFFECT ON ENVIRONMENT/ PERSONNEL*	YY
#INITIAL UNIT CONDITIONS/ UNIT	EFFECTS*	XA
	# ELECTRICAL HEAT TRACING*	EP
	# EMERGENCY BORATION (PWR)*	BD
	# EMERGENCY GENERATOR BUILDING*	SI
	# EMERGENCY GENERATOR COOLING*	CL
	# EMERGENCY GENERATOR FUEL*	CI
	# EMERGENCY GENERATOR HVAC*	HI
	# EMERGENCY GENERATOR INSTRUMENTATION AND CONTROLS*	IM
	# EMERGENCY GENERATOR LUBE OIL*	CM
	# EMERGENCY GENERATOR STARTING*	CK
	# EMERGENCY POWER GENERATION*	EH
	# ENGINEERED SAFETY FEATURES ACTUATION*	IS
	# ENVIRONMENT (EXTERNAL TO ANY STRUCTURE)*	SY
#EFFECT ON	ENVIRONMENT/ PERSONNEL*	YY
	# ENVIRONMENTAL MONITORING*	YG
	# EQUIPMENT DRAINAGE (INCLUDING VENTS)*	WK
#MATERIAL AND	EQUIPMENT HANDLING*	KE
	ESSENTIAL COMPRESSED AIR*	CC
	ESSENTIAL RAW COOLING/ SERVICE WATER*	CB
#IN-CORE AND	EX-CORE NEUTRON MONITORING*	IK
#SECONDARY CONTAINMENT RECIRCULATION AND	EXHAUST*	HO
#ENVIRONMENT (EXTERNAL TO ANY STRUCTURE)*	SY
#NON-CONDENSABLE GASES	EXTRACTION*	FE
#STEAM	EXTRACTION*	PH
	# FABRICATION ACTIVITY*	PP
#ENGINEERED SAFETY	FEATURES ACTUATION*	IS
#AUXILIARY	FEEDWATER (PWR)*	BA
	# FEEDWATER CHEMISTRY CONTROL*	PN
	# FEEDWATER CONTROL*	IT
#CONDENSATE AND	FEEDWATER*	PI
	# FIRE DETECTION*	IF
	# FIRE PROTECTION*	KP
#CORE	FLOODING ACCUMULATOR (PWR)*	BS
#RECIRCULATION	FLOW CONTROL (BWR)*	IS
	# FUEL BUILDING HVAC*	HE
	# FUEL BUILDING*	SK
#SPENT	FUEL POOL/ REFUELING POOL COOLING AND CLEANUP*	DA
	# FUEL STORAGE*	KL
#EMERGENCY GENERATOR	FUEL*	CI
#CONTAINMENT COMBUSTIBLE	GAS CONTROL*	DM
#COMPRESSED	GAS*	KH
	# GASEOUS RADWASTE (BWR)*	NO
	# GASEOUS RADWASTE (PWR)*	UC
#NON-RADIOACTIVE WASTE (LIQUID, SOLID, &	GASEOUS)*	WE
#NON-CONDENSABLE	GASES EXTRACTION*	FE

APPENDIX B - TABLE 2

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PERMUTED LISTING OF SYSTEM CODE DESCRIPTIONS
(WITH CODES)

#EMERGENCY POWER GENERATION*		ZH
#STEAM GENERATOR (PWR)*		ZH
#STEAM GENERATOR (LWR) (PWR)*		ZH
#EMERGENCY GENERATOR BUILDING*		ZI
#EMERGENCY GENERATOR COOLING*		ZL
#EMERGENCY GENERATOR FUEL*		ZI
#EMERGENCY GENERATOR HVAC*		ZI
#EMERGENCY GENERATOR INSTRUMENTATION AND CONTROLS*		ZH
#EMERGENCY GENERATOR LUBE OIL*		ZH
#STEAM GENERATOR PRESSURE RELIEF (PWR)*		ZP
#EMERGENCY GENERATOR STARTING*		ZK
#STEAM GENERATOR STARTUP*		ZH
#HIGH VOLTAGE AC (GREATER THAN 35KV)*		EA
# GROUNDING AND CATHODIC PROTECTION*		EP
#MATERIAL AND EQUIPMENT HANDLING*		KE
#UPPER HEAD INJECTION (PWR)*		BT
#RESIDUAL HEAT REMOVAL (BWR)*		EM
#RESIDUAL HEAT REMOVAL (PWR)*		UP
#ELECTRICAL HEAT TRACING*		EP
# HIGH PRESSURE COOLANT INJECTION (BWR)*		UN
# HIGH PRESSURE CORE SPRAY (BWR)*		BU
# HIGH VOLTAGE AC (GREATER THAN 35KV)*		EA
#REACTOR BUILDING HVAC (BWR)*		HB
#TURBINE BUILDING HVAC (BWR)*		HN
#REACTOR BUILDING HVAC (PWR)*		HA
#TURBINE BUILDING HVAC (PWR)*		HL
#DORYWELL/ TORUS HVAC AND PURGE (BWR)*		HE
#REACTOR AUXILIARY BUILDING HVAC*		HF
#CONTROL BUILDING HVAC*		HW
#EMERGENCY GENERATOR HVAC*		HI
#FUEL BUILDING HVAC*		HK
#WASTE MANAGEMENT BUILDING HVAC*		HP
#PUMPING STATIONS HVAC*		HR
#MISCELLANEOUS STRUCTURES HVAC*		HS
#CONTAINMENT (ICE CONDENSER (PWR)*		OI
# IN-CORE AND EX-CORE NEUTRON MONITORING*		IK
#EQUIPMENT DRAINAGE (INCLUDING VENTS)*		OK
# INITIAL UNIT CONDITIONS/ UNIT EFFECTS*		XX
#LOW PRESSURE COOLANT INJECTION (BWR)*		BI
#HIGH PRESSURE COOLANT INJECTION (BWR)*		BN
#INTERMEDIATE PRESSURE INJECTION (PWR)*		BL
#UPPER HEAD INJECTION (PWR)*		BT
#CHEMICAL ADDITIVE INJECTION*		KX
# INSTALLATION ACTIVITY*		PI
#VITAL INSTRUMENT, CONTROL, AND COMPUTER AC*		ED
#TURBOGENERATOR INSTRUMENTATION AND CONTROL*		II
#EMERGENCY GENERATOR INSTRUMENTATION AND CONTROLS*		II
#NON-NUCLEAR INSTRUMENTATION*		IZ
# INSULATING OIL*		KK
# INTERMEDIATE PRESSURE INJECTION (PWR)*		BL
# ISOLATION CONDENSER (BWR)*		BB
#REACTOR CORE ISOLATION COOLING (BWR)*		BC
#CONTAINMENT ISOLATION LEAKAGE CONTROL*		OD
#MAIN STEAM ISOLATION VALVE LEAKAGE CONTROL*		OC
#CONTAINMENT ISOLATION*		OB
#MULTIPLE KNOWN*		ZY
# LEAK MONITORING*		IL
#MAIN STEAM ISOLATION VALVE LEAKAGE CONTROL*		OC
#CONTAINMENT ISOLATION LEAKAGE CONTROL*		OD
#LOW VOLTAGE AC (LESS THAN 600V)*		EC
# LIGHTING AND TAPPED MOTIVE POWER*		EE
#STANDBY LIQUID CONTROL (BWR)*		BE
# LIQUID RAHWASTE*		VA
#NON-RADIOACTIVE WASTE (LIQUID, SOLID, & GASEOUS)*		WE
# LOCAL CONTROL PANELS*		IE
# LOW PRESSURE COOLANT INJECTION (BWR)*		BI
# LOW PRESSURE CORE SPRAY (BWR)*		BA
# LOW VOLTAGE AC (LESS THAN 600V)*		EC
# LUBE OIL STORAGE*		XP
#EMERGENCY GENERATOR LUBE OIL*		CH

APPENDIX B - TABLE 2

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PERMITTED LISTING OF SYSTEM CODE DESCRIPTIONS
(WITH CODES)

	# MAIN CONDENSER*	FO
	# MAIN STEAM ISOLATION VALVE LEAKAGE CONTROL*	QC
	# MAIN STEAM*	QA
	# MAINTENANCE/REPAIR ACTIVITY*	PA
#CONTAINMENT PRESSURE SUPPRESSION	MAKE-UP (BWR)*	CP
	#WASTE MANAGEMENT BUILDING HVAC*	MP
	#WASTE MANAGEMENT BUILDING*	SN
	# MATERIAL AND EQUIPMENT HANDLING*	KE
	# MEDIUM VOLTAGE AC (33KV TO 600V)*	EB
	# MISCELLANEOUS STRUCTURES HVAC*	NS
	# MISCELLANEOUS STRUCTURES*	SW
	# MOISTURE SEPARATORS, REHEATERS*	FK
#ENVIRONMENTAL	MONITORING*	IG
#IN-CORE AND EX-CORE NEUTRON	MONITORING*	IK
	#LEAK MONITORING*	IL
	#RADIATION MONITORING*	IN
	#PLANT MONITORING*	IJ
#LIGHTING AND TAXED	MOTIVE POWER*	EI
	# MULTIPLE KNOWN*	ZY
#IN-CORE AND EX-CORE	NEUTRON MONITORING*	IK
	# NON-CONDENSABLE GASES EXTRACTION*	FE
	# NON-NUCLEAR INSTRUMENTATION*	IZ
	# NON-RADIOACTIVE WASTE (LIQUID, SOLID, & GASEOUS)*	WE
	# NUCLEAR BOILER OVERPRESSURE PROTECTION (BWR)*	BR
	#NON-NUCLEAR INSTRUMENTATION*	IZ
	#LUBE OIL STORAGE*	KP
#EMERGENCY GENERATOR LUBE	OIL*	CH
	#INSULATING OIL*	KK
#CIRCULATING WATER (OPEN CYCLE)*	# OPERATION ACTIVITY*	PR
	# OTHER ACTIVITY*	PO
	# OTHER*	PI
#NUCLEAR BOILER	OVERPRESSURE PROTECTION (BWR)*	ZX
		BR
#CONTROL ROOM	PANELS*	IC
#AUXILIARY (BACKUP) CONTROL AREA	PANELS*	ID
	#LOCAL CONTROL PANELS*	IE
#EFFECT ON ENVIRONMENT/	PERSONNEL*	YY
	# PLANT DRAINAGE*	WI
	# PLANT MONITORING*	IJ
	# PLANT STACK*	HW
	#SPRAY POND*	SS
#REACTOR TORUS/ SUPPRESSION	POOL (BWR)*	SD
	#SUPPRESSION POOL CLEANUP (BWR)*	SN
#SPENT FUEL POOL/ REFUELING	POOL COOLING AND CLEANUP*	QA
	#SPENT FUEL POOL/ REFUELING POOL COOLING AND CLEANUP*	QA
	# POTABLE AND SANITARY WATER*	KI
#REACTOR	POWER CONTROL (BWR)*	IR
#REACTOR	POWER CONTROL (PWR)*	IP
#EMERGENCY	POWER GENERATION*	EM
#LIGHTING AND TAXED MOTIVE	POWER*	EI
	#LOW PRESSURE COOLANT INJECTION (BWR)*	BI
	#HIGH PRESSURE COOLANT INJECTION (BWR)*	BN
	#HIGH PRESSURE CORE SPRAY (BWR)*	BS
	#LOW PRESSURE CORE SPRAY (BWR)*	BS
	#INTERMEDIATE PRESSURE INJECTION (PWR)*	BL
#STEAM GENERATOR	PRESSURE RELIEF (PWR)*	BP
#CONTAINMENT	PRESSURE SUPPRESSION MAKE-UP (BWR)*	CP
	# PRESSURIZER (PWR)*	AP
	# PRIMARY CONTAINMENT VACUUM RELIEF*	HC
	# PRIMARY COOLANT (PWR)*	AE
	# PRIMARY REACTOR CONTAINMENT (PWR)*	SA
#NUCLEAR BOILER OVERPRESSURE	PROTECTION (BWR)*	BR
	#RADIATION PROTECTION ACTIVITY*	PR
#GROUNDING AND CATHODIC	PROTECTION*	EP
#REACTOR	PROTECTION*	IU
	#FIRE PROTECTION*	KP
#SOLID STATE	PROTECTION/ CONTROL*	IX
	# PUMPING STATIONS HVAC*	HR
	# PUMPING STATIONS*	SP
#DRYWELL/ TORUS HVAC AND	PURGE (BWR)*	HE
#CONTROL ROD DRIVE (PWR)*		AB
#PRIMARY COOLANT (PWR)*		AE
#PRESSURIZER (PWR)*		AP
#STEAM GENERATOR (PWR)*		AH
#AUXILIARY FEEDWATER (PWR)*		BA

APPENDIX B - TABLE 2

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PERMITTED LISTING OF SYSTEM CODE DESCRIPTIONS
(WITH CODES)

#EMERGENCY SURATION (PWR)*	8D
#RESIDUAL HEAT REMOVAL (PWR)*	8F
#CHEMICAL AND VOLUME CONTROL (PWR)*	9K
#INTERMEDIATE PRESSURE INJECTION (PWR)*	9L
#STEAM GENERATOR PRESSURE RELIEF (PWR)*	8P
#CORE FLOODING ACCUMULATOR (PWR)*	8S
#UPPER HEAD INJECTION (PWR)*	8T
#BORATED/ REFUELING WATER STORAGE (PWR)*	CO
#CONTAINMENT ICE CONDENSEM (PWR)*	OI
#REACTOR BUILDING HVAC (PWR)*	HA
#TURBINE BUILDING HVAC (PWR)*	HL
#REACTOR POWER CONTROL (PWR)*	IP
#PRIMARY REACTOR CONTAINMENT (PWR)*	SA
#SECONDARY REACTOR CONTAINMENT (PWR)*	SB
#GASEOUS RADWASTE (PWR)*	NC
#STEAM GENERATOR BLOWDOWN (PWR)*	WF
# RADIATION MONITORING*	IN
# RADIATION PROTECTION ACTIVITY*	PH
#NON-RADIOACTIVE WASTE (LIQUID, SOLID, & GASEOUS)*	WE
#GASEOUS RADWASTE (BWR)*	WO
#GASEOUS RADWASTE (PWR)*	WC
#LIQUID RADWASTE*	WA
#SOLID RADWASTE*	WB
# RAW COOLING WATER*	KT
#ESSENTIAL RAW COOLING/ SERVICE WATER*	CB
# RAW SERVICE WATER*	Kb
# REACTOR AUXILIARY BUILDING HVAC*	HP
# REACTOR AUXILIARY BUILDING*	SP
# REACTOR BUILDING HVAC (BWR)*	Hd
# REACTOR BUILDING HVAC (PWR)*	HA
#SECONDARY REACTOR CONTAINMENT (BWR)*	SE
#PRIMARY REACTOR CONTAINMENT (PWR)*	SA
#SECONDARY REACTOR CONTAINMENT (PWR)*	SB
# REACTOR CORE ISULATION COOLING (BWR)*	BC
# REACTOR CORE*	AA
# REACTOR DRYWELL (BWR)*	SC
# REACTOR POWER CONTROL (BWR)*	IR
# REACTOR POWER CONTROL (PWR)*	IP
# REACTOR PROTECTION*	IU
# REACTOR TORUS/ SUPPRESSION POOL (BWR)*	SD
# REACTOR VESSEL*	AD
# REACTOR WATER CLEANUP (BWR)*	WP
# REACTOR WATER STORAGE (BWR)*	CE
# RECIRCULATING WATER (BWR)*	AI
#SECONDARY CONTAINMENT RECIRCULATION AND EXHAUST*	HO
# RECIRCULATION FLOW CONTROL (BWR)*	IS
#BORON RECOVERY*	KR
#SPENT FUEL POOL/ REFUELING POOL COOLING AND CLEANUP*	DA
#BORATED/ REFUELING WATER STORAGE (PWR)*	CO
#MOISTURE SEPARATORS, REHEATERS*	FX
#STEAM GENERATOR PRESSURE RELIEF (PWR)*	8P
#PRIMARY CONTAINMENT VACUUM RELIEF*	HC
#RESIDUAL HEAT REMOVAL (BWR)*	8H
#RESIDUAL HEAT REMOVAL (PWR)*	8F
# RESIDUAL HEAT REMOVAL (BWR)*	8H
# RESIDUAL HEAT REMOVAL (PWR)*	8F
#CONTROL ROD DRIVE (BWR)*	AC
#CONTROL ROD DRIVE (PWR)*	AB
#CONTROL ROD DRIVE COOLING WATER*	KS
# ROOF DRAINAGE*	AL
#CONTROL ROOM PANELS*	IC
#ENGINEERED SAFETY FEATURES ACTUATION*	IS
# SAMPLING*	KB
#POTABLE AND SANITARY WATER*	KI
# SEAL WATER*	PT
#TURBOGENERATOR TURBINE STEAM SEALING*	FC
# SECONDARY CONTAINMENT RECIRCULATION AND EXHAUST*	HO
# SECONDARY REACTOR CONTAINMENT (BWR)*	SE
# SECONDARY REACTOR CONTAINMENT (PWR)*	SB
# SECURITY*	EK
#MOISTURE SEPARATORS, REHEATERS*	FX
#CONTROL AND SERVICE AIR*	KC
#ESSENTIAL RAW COOLING/ SERVICE WATER*	CB
#RAW SERVICE WATER*	Kb
# SOLID RADWASTE*	WB
# SOLID STATE PROTECTION/ CONTROL*	IX
#NON-RADIOACTIVE WASTE (LIQUID, SOLID, & GASEOUS)*	WE
# SPENT FUEL POOL/ REFUELING POOL COOLING AND CLEANUP*	DA
#HIGH PRESSURE CORE SPRAY (BWR)*	8b

APPENDIX B - TABLE 2

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PERMITTED LISTING OF SYSTEM CODE DESCRIPTIONS
(WITH CODES)

#CIRCULATING	WATER (CLOSED CYCLE)*	F S
#CIRCULATING	WATER (OPEN CYCLE)*	F H
#REACTOR	WATER CLEANUP (DWR)*	W P
#REACTOR	WATER STORAGE (DWR)*	C E
#BORATED/ REFUELING	WATER STORAGE (DWR)*	C O
#COMPONENT COOLING	WATER*	C A
#ESSENTIAL RAW COOLING/ SERVICE	WATER*	C B
#SEAL	WATER*	F I
#CHILLED	WATER*	H T
#DEMINERALIZED	WATER*	A Q
#POTABLE AND SANITARY	WATER*	K I
#CONTROL ROD DRIVE COOLING	WATER*	K S
#RAW COOLING	WATER*	X T
#RAW SERVICE	WATER*	A B

APPENDIX C - TABLE 1

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COMPONENT CODES SORTED BY CODE
(WITH ICOMP DESIGNATION)

CODE	ICOMP	COMPONENT DESCRIPTION	CODE	ICOMP	COMPONENT DESCRIPTION
12	217	RELAY, OVERSPEED	80	140	BOARD/ PANEL
14	217	RELAY, UNDERSPEED (DEVICE)	PI	215	INDICATOR, BATTERY CHARGER
27	217	RELAY, UNDERVOLTAGE	RIS	219	RESTABLE
37	217	RELAY, UNDERCURRENT/ UNDERPOWER	RLP	200	BOILER
49	120	MONITOR, MECHANICAL CONDITION	RLT	240	BELT
49	120	MONITOR, ATMOSPHERIC CONDITION	ROVC	350	VALVE, FLOWOFF, CARBON STEEL
49	217	RELAY, THERMAL OVERLOAD	ROVS	350	VALVE, FLOWOFF, STAINLESS STEEL
52	211	CIRCUIT BREAKER, AC	ROVX	350	VALVE, FLOWOFF, OTHER MATERIAL
59	217	RELAY, OVERVOLTAGE	ROVZ	350	VALVE, FLOWOFF, UNKNOWN MATERIAL
65	240	GOVERNOR	ROVZ	240	BEARING/ RUSHING
72	211	CIRCUIT BREAKER, DC	BRK	240	BRAKE
81	217	RELAY, FREQUENCY	BSKT	240	BASKET, ICE CONDENSED
85	217	RELAY, PILOT WIRE	RUS	110	BUS
AA	30	ALARM/ ANNUNCIATOR, ANALYZER	RX	140	BOX, OTHER TYPE
AC	213	CONTROL, ANALYZER	PY	40	BATTERY
ACC	10	ACCUMULATOR	RYC	40	CHARGER, BATTERY
ACVC	350	VALVE, CONTROL, ANALYZER, CARBON STEEL	RYVC	350	VALVE, BYPASS, CARBON STEEL
ACVS	350	VALVE, CONTROL, ANALYZER, STAINLESS STEEL	RYVS	350	VALVE, BYPASS, STAINLESS STEEL
ACVX	350	VALVE, CONTROL, ANALYZER, OTHER MATERIAL	RYVX	350	VALVE, BYPASS, OTHER MATERIAL
ACVZ	350	VALVE, CONTROL, ANALYZER, UNKNOWN MATERIAL	RYVZ	350	VALVE, BYPASS, UNKNOWN MATERIAL
ADPY	20	AIR DRYER, ABSORPTION/ ADSORPTION	CA	30	ALARM/ ANNUNCIATOR, CONDUCTIVITY
AE	218	PRIMARY ELEMENT, ANALYZER	CAI	60	CHEMICAL ADDITION INJECTOR
AHU	200	AIR HANDLING/CONDITIONING UNIT (HEATING AND VENTILATION)	CAP	210	CAPACITOR
AI	219	INDICATOR, ANALYZER	CEL	110	CELL/ WIRE
AMP	212	AMPLIFIER	CC	213	CONTROL, CONDUCTIVITY
ANK	310	ANCHOR	CCD	120	CARD, CIRCUIT
APL	320	ACCESS PLATFORM/ STAIR/ LADDER	CL	200	COIL, COOLING
AR	216	RECORDER, ANALYZER	CCVC	350	VALVE, CONTROL, CONDUCTIVITY, CARBON STEEL
ARLY	217	RELAY, ALARM/ ANNUNCIATOR	CCVS	350	VALVE, CONTROL, CONDUCTIVITY, STAINLESS STEEL
AS	219	SWITCH, ANALYZER	CCVX	350	VALVE, CONTROL, CONDUCTIVITY, OTHER MATERIAL
AT	220	TRANSMITTER, ANALYZER	CCVZ	350	VALVE, CONTROL, CONDUCTIVITY, UNKNOWN MATERIAL
AVF	212	AVERAGER	CF	218	PRIMARY ELEMENT, CONDUCTIVITY
BAVC	350	VALVE, BALANCING, CARBON STEEL	CI	215	INDICATOR, CONDUCTIVITY
BAVS	350	VALVE, BALANCING, STAINLESS STEEL	CL	120	COIL
BAVX	350	VALVE, BALANCING, OTHER MATERIAL	CLF	200	COOLER
BAVZ	350	VALVE, BALANCING, UNKNOWN MATERIAL	CLH	240	CLITCH
			CP	50	COMPRESSOR

APPENDIX C - TABLE 1

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COMPONENT CODES SORTED BY CODE
(WITH ICOMP DESIGNATION)

CODE	ICOMP	COMPONENT DESCRIPTION	CODE	ICOMP	COMPONENT DESCRIPTION
CND	120	CONDUIT	DRVZ	350	VALVE, DRAIN, UNKNOWN MATERIAL
CNST	140	CONTROL STATION	DRYR	20	DRYER
CNTR	120	CONTACTOR / CONTACTS	DSFH	320	DISCHARGE FLUMF
CNV	170	CONVERTER	DSL	130	ENGINE, DIESEL
CO	213	CONTROL OPERATOR	DSW	219	SWITCH, DISCONNECT
COL	240	COLLECTOR	DUCT	240	DUCT
COM	80	COMMUNICATIONS EQUIPMENT	EA	30	ALARM/ ANNUNCIATOR, VOLTAGE
CON	140	CONNECTOR	EC	213	CONTROL, VOLTAGE
COND	200	CONDENSER	ED	50	EDUCTOR
COUPL	240	COUPLING	EE	218	PRIMARY ELEMENT, VOLTAGE
CPJ	212	COMPUTER	EI	215	INDICATOR, VOLTAGE
CR	216	RECORDER, CONDUCTIVITY	EJR	50	EJECTOR
CRA	90	CONTROL ROD ASSEMBLY	FLV	130	ELEVATOR
CRD	100	CONTROL ROD DRIVE	ENG	130	ENGINE, OTHER TYPE
CPE	90	CONTROL ROD	ER	216	RECORDER, VOLTAGE
CRN	180	CRANE	ES	219	SWITCH, VOLTAGE
CRT	120	CATHODE RAY TUBE	EY	220	TRANSMITTER, VOLTAGE
CS	219	SWITCH, CONDUCTIVITY	FXC	250	EXCITER
CSL	140	CONSOLE	FA	30	ALARM/ ANNUNCIATOR, FLOW
CSTR	320	CONCRETE STRUCTURE / SHIELD	FAN	50	FAN/ BLOWER
CSW	219	SWITCH, CONTROL	FAP	320	FLAME APRESTOP
CT	220	TRANSMITTER, CONDUCTIVITY	FAS	240	FASTENER
CTW	200	COOLING TOWER	FRQ	320	FIRE BARRIER
CUF	70	CLEANUP EQUIPMENT, MISCELLANEOUS	FC	213	CONTROL, FLOW
CVC	350	VALVE, CHECK, CARBON STEEL	FCU	300	FAN COOLER UNIT
CVS	350	VALVE, CHECK, STAINLESS STEEL	FCVC	350	VALVE, CONTROL, FLOW, CARBON STEEL
CVX	350	VALVE, CHECK, OTHER MATERIAL	FCVS	350	VALVE, CONTROL, FLOW, STAINLESS STEEL
CVZ	350	VALVE, CHECK, UNKNOWN MATERIAL	FCVX	350	VALVE, CONTROL, FLOW, OTHER MATERIAL
DAL	216	DATA LOGGER	FCVZ	350	VALVE, CONTROL, FLOW, UNKNOWN MATERIAL
DCL	240	COIL, DRAIN	FF	218	PRIMARY ELEMENT, FLOW
DFH	240	DIAPHRAM	FHF	180	FUEL HANDLING EQUIPMENT
DIFF	212	DIFFERENTIATOR	FI	215	INDICATOR, FLOW
DIO	210	DICKE	FLA	160	FUEL ASSEMBLY
DM	60	DEMINERALIZER	FLF	160	FUEL ELEMENT/ROD
DMP	350	DAMPER / LOUVER	FLVC	350	VALVE, FLUSH/ PURGE, CARBON STEEL
DP	320	DOOR / COVER / HATCH	FLVS	350	VALVE, FLUSH/ PURGE, STAINLESS STEEL
DRLY	217	RELAY, DIRECTIONAL / BALANCE	FLVX	350	VALVE, FLUSH/ PURGE, OTHER MATERIAL
DRN	320	DRAIN			
DRVZ	350	VALVE, DRAIN, CARBON STEEL			
DRVS	350	VALVE, DRAIN, STAINLESS STEEL			
DRVX	350	VALVE, DRAIN, OTHER MATERIAL			
DWG		Drawings/Records			

APPENDIX C - TABLE 1
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COMPONENT CODES SORTED BY CODE
(WITH ICOMP DESIGNATION)

CODE	ICOMP	COMPONENT DESCRIPTION	CODE	ICOMP	COMPONENT DESCRIPTION
FLVZ	350	VALVE, FLUSH/ PURGE, UNKNOWN MATERIAL	ISOL	214	ISOLATOR/ BUFFER
FR	214	RECORDER, FLOW	ISVC	350	VALVE, ISOLATION/ SHUTOFF, CARBON STEEL
FRA	30	ALARM/ ANNUNCIATOR, PIPE/ SPOKE	ISVS	350	VALVE, ISOLATION/ SHUTOFF, STAINLESS STEEL
FRE	218	PRIMARY ELEMENT, FIRE/ SMOKE	ISVX	350	VALVE, ISOLATION/ SHUTOFF, OTHER MATERIAL
FRY	217	RELAY, FIELD/ EXCITER	ISVZ	350	VALVE, ISOLATION/ SHUTOFF, UNKNOWN MATERIAL
FS	219	SWITCH, FLOW	IT	220	TRANSMITTER, CURRENT
FT	220	TRANSMITTER, FLOW	JA	30	ALARM/ ANNUNCIATOR, POWER
FU	211	FUSE	JFX	140	BOX, JUNCTION
GM	10	GAS BOTTLES & MANIFOLD	JC	213	CONTROL, POWER
GE	218	PRIMARY ELEMENT, GROUND	JT	215	INDICATOR, POWER
GPH	170	GENERATOR	JR	216	RECORDER, POWER
GI	215	INDICATOR, GROUND	JS	219	SWITCH, POWER
GR	240	GEAR	JT	220	TRANSMITTER, POWER
HANG	310	HANGER	JX	120	POWER SUPPLY, ELECTRIC
HCL	200	COIL, HEATING	KI	215	INDICATOR, TIME
HOSE	240	HOSE	KS	219	SWITCH, TIME
HS	219	SWITCH, HAND	KT	220	TRANSMITTER, TIME
HTP	200	HEATER, OTHER TYPE	LA	30	ALARM/ ANNUNCIATOR, LEVEL
HTRF	190	HEATER, ELECTRIC	LAR	214	ARRESTOR, LIGHTNING
HTTR	190	HEAT TRACING	LC	213	CONTROL, LEVEL
HX	200	HEAT EXCHANGER	LCVC	350	VALVE, CONTROL, LEVEL, CARBON STEEL
HYD	240	HYDRANT	LCVS	350	VALVE, CONTROL, LEVEL, STAINLESS STEEL
IA	30	ALARM/ ANNUNCIATOR, CURRENT	LCVX	350	VALVE, CONTROL, LEVEL, OTHER MATERIAL
IC	213	CONTROL, CURRENT	LCVZ	350	VALVE, CONTROL, LEVEL, UNKNOWN MATERIAL
ICDN	200	CONDENSER, ICE	LE	218	PRIMARY ELEMENT, LEVEL
IE	218	PRIMARY ELEMENT, CURRENT	LI	215	INDICATOR, LEVEL
IFLT	214	FILTER (IEC)	LIT	230	LIGHTING EQUIPMENT
II	215	INDICATOR, CURRENT	LOR	217	RELAY, LOCKOUT/ TRIPPING
INA	30	ALARM/ ANNUNCIATOR, INTRUSION	LCVC	350	VALVE, LEAKOFF, CARBON STEEL
INE	218	PRIMARY ELEMENT, INTRUSION	LCVS	350	VALVE, LEAKOFF, STAINLESS STEEL
INL	120	INTERLOCK	LCVX	350	VALVE, LEAKOFF, OTHER MATERIAL
INT	212	INTEGRATOR	LCVZ	350	VALVE, LEAKOFF, UNKNOWN MATERIAL
INV	170	INVERTER	LR	216	RECORDER, LEVEL
INVC	350	VALVE, INJECTION, CARBON STEEL	LS	219	SWITCH, LEVEL
INVS	350	VALVE, INJECTION, STAINLESS STEEL			
INX	350	VALVE, INJECTION, OTHER MATERIAL			
INWZ	350	VALVE, INJECTION, UNKNOWN MATERIAL			
IR	216	RECORDER, CURRENT			
IS	219	SWITCH, CURRENT			
ISL	240	INSULATION			

APPENDIX C - TABLE 1

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COMPONENT CODES SORTED BY CODE
(WITH ICOMP DESIGNATION)

CODE	ICOMP	COMPONENT DESCRIPTION	CODE	ICOMP	COMPONENT DESCRIPTION
IT	220	TRANSMITTER, LEVEL	PA	30	ALARM/ANNUNCIATOR, PRESSURE
MA	30	ALARM/ANNUNCIATOR, MOISTURE/HUMIDITY	PB	219	PUSH BLTTON
MC	213	CONTROL, MOISTURE/HUMIDITY	PC	213	CONTROL, PRESSURE
MCC	213	CONTROL CENTER, MOTOR	PD	270	CONTRACTOR PERSONNEL
MOF	212	MODIFIER	PCVC	350	VALVE, CONTROL, PRESSURE, CARBON STEEL
ME	218	PRIMARY ELEMENT, MOISTURE/HUMIDITY	PCVS	350	VALVE, CONTROL, PRESSURE, STAINLESS STEEL
MFI	500	MISCELLANEOUS EQUIPMENT ITEM	PCVX	350	VALVE, CONTROL, PRESSURE, OTHER MATERIAL
MG	170	GENERATOR, MOTOR	PCVZ	350	VALVE, CONTROL, PRESSURE, UNKNOWN MATERIAL
MHE	180	HANDLING EQUIPMENT, MISCELLANEOUS	PC	120	POTENTIAL DEVICE
MI	215	INDICATOR, MOISTURE/HUMIDITY	PE	218	PRIMARY ELEMENT, PRESSURE
MON	120	MONITOR	PEN	260	PENETRATION, OTHER/UNKNOWN TYPE
MOT	250	MOTOR	PLY	150	FILTER (PROCESS)
NR	216	RECORDER, MOISTURE/HUMIDITY	PI	215	INDICATOR, PRESSURE
MS	219	SWITCH, MOISTURE/HUMIDITY	PIAC	280	PIPE, LESS THAN 4 INCH DIAMETER, CARBON STEEL
MSC	500	MISCELLANEOUS SUBCOMPONENT	PIAL	280	PIPE, LESS THAN 4 INCH DIAMETER, LINED/CLAD
MSF	320	MISCELLANEOUS STRUCTURAL FEATURES	PIAS	280	PIPE, LESS THAN 4 INCH DIAMETER, STAINLESS STEEL
MSTR	250	MOTOR STARTER	PIAX	280	PIPE, LESS THAN 4 INCH DIAMETER, OTHER MATERIAL
NT	220	TRANSMITTER, MOISTURE/HUMIDITY	PIAZ	280	PIPE, LESS THAN 4 INCH DIAMETER, UNKNOWN MATERIAL
HUC	213	CONTROL, MULTI-VARIABLE	PIBC	280	PIPE, 4 TO 6 INCH DIAMETER, CARBON STEEL
MUT	215	INDICATOR, MULTI-VARIABLE	PIBL	280	PIPE, 4 TO 6 INCH DIAMETER, LINED/CLAD
MUR	216	RECORDER, MULTI-VARIABLE	PIBS	200	PIPE, 4 TO 6 INCH DIAMETER, STAINLESS STEEL
MUS	219	SWITCH, MULTI-VARIABLE	PIPX	280	PIPE, 4 TO 6 INCH DIAMETER, OTHER MATERIAL
MUT	220	TRANSMITTER, MULTI-VARIABLE	PIRZ	280	PIPE, 4 TO 6 INCH DIAMETER, UNKNOWN MATERIAL
MA	30	ALARM/ANNUNCIATOR, FLUX/NEUTRON	PICC	280	PIPE, 6 TO 10 INCH DIAMETER, CARBON STEEL
ME	218	PRIMARY ELEMENT, FLUX/NEUTRON	PICI	280	PIPE, 6 TO 10 INCH DIAMETER, LINED/CLAD
MI	215	INDICATOR, FLUX/NEUTRON			
MR	216	RECORDER, FLUX/NEUTRON			
MS	219	SWITCH, FLUX/NEUTRON			
NT	220	TRANSMITTER, FLUX/NEUTRON			
NZL	280	NOZZLE			
OCR	217	REFLAY, OVERCURRENT			
ORVC	350	VALVE, RELIEF W/OPERATOR, CARBON STEEL			
ORVS	350	VALVE, RELIEF W/OPERATOR, STAINLESS STEEL			
ORVX	350	VALVE, RELIEF W/OPERATOR, OTHER MATERIAL			
ORVZ	350	VALVE, RELIEF W/OPERATOR, UNKNOWN MATERIAL			
OSL	120	OSCILLATOR			

APPENDIX C - TABLE 1

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COMPONENT CODES SORTED BY CODE
(WITH ICOMP DESIGNATION)

CODE	ICOMP	COMPONENT DESCRIPTION	CODE	ICOMP	COMPONENT DESCRIPTION
PICS	280	PIPE, 6 TO 10 INCH DIAMETER, STAINLESS STEEL	PMPD	290	PUMP, DIAPHRAGM
PICX	280	PIPE, 6 TO 10 INCH DIAMETER, OTHER MATERIAL	PMPD	290	PUMP, GEAR
PICZ	280	PIPE, 6 TO 10 INCH DIAMETER, UNKNOWN MATERIAL	PMPD	290	PUMP, RECIPROCATING
PIDC	280	PIPE, 10 TO 16 INCH DIAMETER, CARBON STEEL	PMPF	290	PUMP, RADIAL
PIDL	280	PIPE, 10 TO 16 INCH DIAMETER, LINED/CLAD	PMPG	290	PUMP, ROTARY
PIDS	280	PIPE, 10 TO 16 INCH DIAMETER, STAINLESS STEEL	PMPH	290	PUMP, VANE TYPE
PIDX	280	PIPE, 10 TO 16 INCH DIAMETER, OTHER MATERIAL	PMPJ	290	PUMP, ELECTROMAGNETIC
PIDZ	280	PIPE, 10 TO 16 INCH DIAMETER, UNKNOWN MATERIAL	PMPK	290	PUMP, JET
PIEC	280	PIPE, 16 INCH AND LARGER DIAMETER, CARBON STEEL	PMPX	290	PUMP, OTHER TYPE
PIEL	280	PIPE, 16 INCH AND LARGER DIAMETER, LINED/CLAD	PMPZ	290	PUMP, UNKNOWN TYPE
PIES	280	PIPE, 16 INCH AND LARGER DIAMETER, STAINLESS STEEL	PNA	260	PENETRATION, PERSONNEL ACCESS
PIEX	280	PIPE, 16 INCH AND LARGER DIAMETER, OTHER MATERIAL	PNP	260	PENETRATION, FUEL HANDLING
PIEZ	280	PIPE, 16 INCH AND LARGER DIAMETER, UNKNOWN MATERIAL	PNC	260	PENETRATION, EQUIPMENT ACCESS
PIT	320	PIT	PND	260	PENETRATION, ELECTRICAL
PIZC	280	PIPE, UNKNOWN DIAMETER, CARBON STEEL	PNE	260	PENETRATION, INSTRUMENT LINE
PIZL	280	PIPE, UNKNOWN DIAMETER, LINED/CLAD	PNF	260	PENETRATION, PROCESS PIPING
PIZS	280	PIPE, UNKNOWN DIAMETER, STAINLESS STEEL	PNO	270	NON-LICENSED OPERATORS
PIZX	280	PIPE, UNKNOWN DIAMETER, OTHER MATERIAL	POOL	320	POOL
PIZZ	280	PIPE, UNKNOWN DIAMETER, UNKNOWN MATERIAL	PR	216	RECORDER, PRESSURE
PLG	280	PLUG	PRLY	217	RELAY, PHASE
PLO	270	LICENSED OPERATORS	PRVC	350	VALVE, PRESSURE REDUCING, CARBON STEEL
PNC	313	CONTROLLER	PRVS	350	VALVE, PRESSURE REDUCING, STAINLESS STEEL
PMPA	290	PUMP, AXIAL	PRVX	350	VALVE, PRESSURE REDUCING, OTHER MATERIAL
PMPB	290	PUMP, CENTRIFUGAL	PRVZ	350	VALVE, PRESSURE REDUCING, UNKNOWN MATERIAL
			PS	219	SWITCH, PRESSURE
			PSC	320	PRESTRESSED CONCRETE / TENDON AND ANCHORAGE
			PT	220	TRANSMITTER, PRESSURE
			PUI	270	OTHER / UNKNOWN UTILITY PERSONNEL
			PX	270	OTHER PERSONNEL
			PZ	270	UNKNOWN PERSONNEL
			PZR	370	PRESSURIZER
			RA	30	ALARM / ANNUNCIATOR, RADIATION
			RCR	300	RECOMBINER
			RCU	140	CONTROL UNIT, REMOTE
			RE	218	PRIMARY ELEMENT, RADIATION
			RECT	120	RECTIFIER

APPENDIX C - TABLE 1

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COMPONENT CODES SORTED BY CODE
(WITH ICOMP DESIGNATION)

CODE	ICOMP	COMPONENT DESCRIPTION	CODE	ICOMP	COMPONENT DESCRIPTION
RI	215	INDICATOR, RADIATION	SE	218	UNKNOWN MATERIAL
RK	140	RACK/ CABINET	SEAL	240	PRIMARY ELEMENT, SPEED/ FREQUENCY
RLY	217	RELAY, OTHER/UNKNOWN TYPE	SEP	150	SEPARATOR
RMVC	350	VALVE, RECIRCULATION, CARBON STEEL	SFO	217	SEQUENCER
RMVS	350	VALVE, RECIRCULATION, STAINLESS STEEL	SFR	320	STRUCTURAL FRAMING AND FOUNDATION
RMVX	350	VALVE, RECIRCULATION, OTHER MATERIAL	SG	200	STEAM GENERATOR
RMVZ	350	VALVE, RECIRCULATION, UNKNOWN MATERIAL	SHFT	240	SHAFT/ STEM
RPD	280	RUPTURE DISC	SI	215	INDICATOR, SPEED/ FREQUENCY
RF?	370	VESSEL, REACTOR	SL	280	SENSING LINE
RR	216	RECORDFR, RADIATION	SLV	280	SLEEVE
RS	219	SWITCH, RADIATION	SMP	320	SUMP
RSSR	216	RESISTOR	SMVC	350	VALVE, SAMPLE, CARBON STEEL
RT	220	TRANSMITTER, RADIATION	SMVS	350	VALVE, SAMPLE, STAINLESS STEEL
RTVC	350	VALVE, ROOT, CARBON STEEL	SMVX	350	VALVE, SAMPLE, OTHER MATERIAL
RTVS	350	VALVE, ROOT, STAINLESS STEEL	SMVZ	350	VALVE, SAMPLE, UNKNOWN MATERIAL
RTVX	350	VALVE, ROOT, OTHER MATERIAL	SNR	310	SNLBRER
RTVZ	350	VALVE, ROOT, UNKNOWN MATERIAL	SOL	120	SOLENOID
QVC	350	VALVE, RELIEF, SELF-ACTING, CARBON STEEL	SPP	120	SURGE PROTECTION PACKAGE
RVP	10	RESERVOIR	SPT	310	SUPPORT
RVS	350	VALVE, RELIEF, SELF-ACTING, STAINLESS STEEL	SR	216	RECORDFR, SPEED/ FREQUENCY
RVX	350	VALVE, RELIEF, SELF-ACTING, OTHER MATERIAL	SS	219	SWITCH, SPEED/ FREQUENCY
RVZ	350	VALVE, RELIEF, SELF-ACTING, UNKNOWN MATERIAL	SSTH	140	STATION, SAMPLE
SA	30	ALARM/ ANNUNCIATOR, SPEED/ FREQUENCY	ST	220	TRANSMITTER, SPEED/ FREQUENCY
SAM	240	SAMPLE	STNR	150	STRAINER
SC	213	CONTROL, SPEED/ FREQUENCY	SUM	212	SUMMER
SCN	150	SCREWN	SYN	120	SYNCHROSCOPE
SCVC	350	VALVE, CONTROL, SPEED/ FREQUENCY, CARBON STEEL	SYNR	217	RELAY, SYNCHRONIZATION
SCVS	350	VALVE, CONTROL, SPEED/ FREQUENCY, STAINLESS STEEL	TA	30	ALARM/ ANNUNCIATOR, TEMPERATURE
SCVX	350	VALVE, CONTROL, SPEED/ FREQUENCY, OTHER MATERIAL	TB	140	TERMINAL BLOCK
SCVZ	350	VALVE, CONTROL, SPEED/ FREQUENCY, UNKNOWN MATERIAL	TRG	280	TUBING
			TC	213	CONTROL, TEMPERATURE
			TCHG	50	TURBOCHARGER
			TCVC	350	VALVE, CONTROL, TEMPERATURE, CARBON STEEL
			TCVS	350	VALVE, CONTROL, TEMPERATURE, STAINLESS STEEL
			TCVX	350	VALVE, CONTROL, TEMPERATURE, OTHER MATERIAL
			TCVZ	350	VALVE, CONTROL, TEMPERATURE, UNKNOWN MATERIAL

APPENDIX C - TABLE 1

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COMPONENT CODES SORTED BY CODE
(WITH ICOMP DESIGNATION)

CODE	ICOMP	COMPONENT DESCRIPTION	CODE	ICOMP	COMPONENT DESCRIPTION
TC	150	TRANSDUCER	VOX	360	VALVE OPERATOR, OTHER TYPE
TDP	217	RELAY, TIME DELAY	VOZ	360	VALVE OPERATOR, UNKNOWN TYPE
TE	218	PRIMARY ELEMENT, TEMPERATURE	VP	316	RECORDER, VIBRATION
TI	215	INDICATOR, TEMPERATURE	VS	219	SWITCH, VIBRATION
TK	10	TANK	VSL	370	WELD
TLIN	110	TRANSMISSION LINE	VT	220	TRANSMITTER, VIBRATION
TLM	120	TELEMETER	VTVC	350	VALVE, VENT, CARBON STEEL
TOT	212	TOTALIZER/ INTEGRATOR	VTVS	350	VALVE, VENT, STAINLESS STEEL
TR	216	RECORDER, TEMPERATURE	VTVX	350	VALVE, VENT, OTHER MATERIAL
TRB	340	TURBINE	VTVZ	350	VALVE, VENT, UNKNOWN MATERIAL
TS	219	SWITCH, TEMPERATURE	WLL	320	WALL/ PLATEHEAD
TSM	219	SWITCH, TEST	WC	213	CONTROL, TORQUE/ FORCE
TT	220	TRANSMITTER, TEMPERATURE	WF	218	PRIMARY ELEMENT, TORQUE/ FORCE
TTVC	350	VALVE, TELLTALE, CARBON STEEL	WI	215	INDICATOR, TORQUE/ FORCE
TTVS	350	VALVE, TELLTALE, STAINLESS STEEL	WP	216	RECORDER, TORQUE/ FORCE
TTVX	350	VALVE, TELLTALE, OTHER MATERIAL	WS	219	SWITCH, TORQUE/ FORCE
TTVZ	350	VALVE, TELLTALE, UNKNOWN MATERIAL	WT	220	TRANSMITTER, TORQUE/ FORCE
TVC	350	VALVE, TEST, CARBON STEEL	XA	30	ALARM/ ANNUNCIATOR, OTHER TYPE
TVS	350	VALVE, TEST, STAINLESS STEEL	XC	213	CONTROL, OTHER TYPE
TVX	350	VALVE, TEST, OTHER MATERIAL	XCPT	330	TRANSFORMER, CENTRAL POWER
TVZ	350	VALVE, TEST, UNKNOWN MATERIAL	XCT	330	TRANSFORMER, CURRENT
TW	120	TYPewriter/ PRINTER/ PLOTTER	XCV	350	VALVE, CONTROL, OTHER TYPE, CARBON STEEL
TY	120	TRAY, CABLE	XCVS	350	VALVE, CONTROL, OTHER TYPE, STAINLESS STEEL
UJX	120	POWER SUPPLY, UNINTERRUPTIBLE	XCVX	350	VALVE, CONTROL, OTHER TYPE, OTHER MATERIAL
VA	30	ALARM/ ANNUNCIATOR, VIBRATION	XCVZ	350	VALVE, CONTROL, OTHER TYPE, UNKNOWN MATERIAL
VACB	350	BREAKER, VACUUM	XE	218	PRIMARY ELEMENT, OTHER/ UNKNOWN TYPE
VE	218	PRIMARY ELEMENT, VIBRATION	XET	370	TRANSFORMER, EXCITATION
VI	215	INDICATOR, VIBRATION	XPMR	330	TRANSFORMER, OTHER TYPE
VLR	50	VENTILATOR	XI	215	INDICATOR, OTHER TYPE
VLVS	240	VALVE SEAT	XIT	330	TRANSFORMER, ISOLATION
VOA	360	VALVE OPERATOR, MANUAL	XLT	330	TRANSFORMER, LIGHTING
VOB	360	VALVE OPERATOR, ELECTRIC/ SERVO	XPWT	330	TRANSFORMER, POWER
VOC	360	VALVE OPERATOR, HYDRAULIC	XR	216	RECORDER, OTHER TYPE
VOD	360	VALVE OPERATOR, PNEUMATIC	XZ	219	SWITCH, OTHER TYPE
VOF	360	VALVE OPERATOR, SOLENOID	XT	220	TRANSMITTER, OTHER TYPE
VGF	360	VALVE OPERATOR, FLOAT	XTT	330	TRANSFORMER, UNKNOWN TYPE
VOG	360	VALVE OPERATOR, EXPLOSIVE/ SQUID	XVC	350	VALVE, OTHER TYPE, CARBON STEEL
VOH	360	VALVE OPERATOR, MECHANICAL			
VOK	360	VALVE OPERATOR, PISTON			
VOL	360	VALVE OPERATOR, BALANCE			
VON	360	VALVE OPERATOR, BALL			

WELD

WELDS

APPENDIX C - TABLE 1

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COMPONENT CODES SORTED BY CODE
(WITH ICOMP DESIGNATION)

CODE	ICOMP	COMPONENT DESCRIPTION
XVCT	330	TRANSFORMER, VOLTAGE REGULATOR/ CURRENT
XVPT	330	TRANSFORMER, VOLTAGE/ VOLTAGE POTENTIAL
XVS	350	VALVE, OTHER TYPE, STAINLESS STEEL
XVX	350	VALVE, OTHER TYPE, OTHER MATERIAL
XVZ	350	VALVE, OTHER TYPE, UNKNOWN MATERIAL
XW	200	WELL, SPECIAL PROCESS MONITOR
XXX	920	ENTIRE SYSTEM
ZA	30	ALARM/ ANNUNCIATOR, POSITION
ZC	213	CONTROL, POSITION
ZD	218	PRIMARY ELEMENT, POSITION
ZI	215	INDICATOR, POSITION
ZR	216	RECORDER, POSITION
ZS	219	SWITCH, POSITION
ZT	220	TRANSMITTER, POSITION
ZVC	350	VALVE, UNKNOWN TYPE, CARBON STEEL
ZVS	350	VALVE, UNKNOWN TYPE, STAINLESS STEEL
ZVX	350	VALVE, UNKNOWN TYPE, OTHER MATERIAL
ZVZ	350	VALVE, UNKNOWN TYPE, UNKNOWN MATERIAL
ZZR	216	RECORDER, UNKNOWN TYPE
ZZC	219	SWITCH, UNKNOWN TYPE
ZZT	220	TRANSMITTER, UNKNOWN TYPE
ZZZ	500	UNKNOWN COMPONENT
YYY		OTHER COMPONENT

APPENDIX C - TABLE 2

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

THIS INDEX IS ONE IN WHICH THE REPORT TITLES ARE PERMUTED AROUND SIGNIFICANT WORDS WHICH APPEAR IN THE TITLE. THE INDEX WORDS ARE CHANGED ALPHABETICALLY IN A COLUMN IN THE CENTER OF THE PAGE WITH THE TITLE PERMUTED AROUND THEM. (# INDICATES BEGINNING OF TITLE, * INDICATES END OF TITLE.)

#AIR DRYER,	ABSORPTION/ ADSORPTION*	ADRY
#CIRCUIT BREAKER,	AC*	52
	# ACCESS PLATFORM/ STAIR/ LADDER*	APL
#PENETRATION, EQUIPMENT	ACCESS*	PNC
#PENETRATION, PERSONNEL	ACCESS*	PNA
	# ACCUMULATOR*	ACC
#VALVE, RELIEF, SELF-	ACTING, CARBON STEEL*	RVC
#VALVE, RELIEF, SELF-	ACTING, OTHER MATERIAL*	RVX
#VALVE, RELIEF, SELF-	ACTING, STAINLESS STEEL*	RVS
#VALVE, RELIEF, SELF-	ACTING, UNKNOWN MATERIAL*	RVZ
#CHEMICAL	ADDITION INJECTOR*	CAI
#AIR DRYER, ABSORPTION/	ADSORPTION*	ADRY
	# AIR DRYER, ABSORPTION/ ADSORPTION*	ADRY
	# AIR HANDLING/CONDITIONING UNIT (HEATING AND VENTILATION)*	AHU
#RELAY,	ALARM/ ANNUNCIATOR*	ARLY
	# ALARM/ ANNUNCIATOR, ANALYZER*	AA
	# ALARM/ ANNUNCIATOR, CONDUCTIVITY*	CA
	# ALARM/ ANNUNCIATOR, CURRENT*	IA
	# ALARM/ ANNUNCIATOR, FIRE/ SMOKE*	PRA
	# ALARM/ ANNUNCIATOR, FLOW*	FA
	# ALARM/ ANNUNCIATOR, FLUX/ NEUTRON*	NA
	# ALARM/ ANNUNCIATOR, INTRUSION*	INA
	# ALARM/ ANNUNCIATOR, LEVEL*	LA
	# ALARM/ ANNUNCIATOR, MOISTURE/ HUMIDITY*	MA
	# ALARM/ ANNUNCIATOR, OTHER TYPE*	XA
	# ALARM/ ANNUNCIATOR, POSITION*	ZA
	# ALARM/ ANNUNCIATOR, POWER*	JA
	# ALARM/ ANNUNCIATOR, PRESSURE*	PA
	# ALARM/ ANNUNCIATOR, RADIATION*	RA
	# ALARM/ ANNUNCIATOR, SPEED/ FREQUENCY*	SA
	# ALARM/ ANNUNCIATOR, TEMPERATURE*	TA
	# ALARM/ ANNUNCIATOR, VIBRATION*	VA
	# ALARM/ ANNUNCIATOR, VOLTAGE*	EA
	# AMPLIFIER*	AMP
#ALARM/ ANNUNCIATOR,	ANALYZER*	AA
#CONTROL,	ANALYZER*	AC
#INDICATOR,	ANALYZER*	AI
#PRIMARY ELEMENT,	ANALYZER*	AE
#RECORDER,	ANALYZER*	AR
#SWITCH,	ANALYZER*	AS
#TRANSMITTER,	ANALYZER*	AT
#VALVE, CONTROL,	ANALYZER, CARBON STEEL*	ACVC
#VALVE, CONTROL,	ANALYZER, OTHER MATERIAL*	ACVX
#VALVE, CONTROL,	ANALYZER, STAINLESS STEEL*	ACVS
#VALVE, CONTROL,	ANALYZER, UNKNOWN MATERIAL*	ACVZ
	# ANCHOR*	ANK
#PRESTRESSED CONCRETE/ TENDON AND	ANCHORAGE*	PSC
#RELAY, ALARM/	ANNUNCIATOR*	ARLY
	#ALARM/ ANNUNCIATOR, ANALYZER*	AA
	#ALARM/ ANNUNCIATOR, CONDUCTIVITY*	CA
	#ALARM/ ANNUNCIATOR, CURRENT*	IA
	#ALARM/ ANNUNCIATOR, FIRE/ SMOKE*	PRA
	#ALARM/ ANNUNCIATOR, FLOW*	FA
	#ALARM/ ANNUNCIATOR, FLUX/ NEUTRON*	NA
	#ALARM/ ANNUNCIATOR, INTRUSION*	INA
	#ALARM/ ANNUNCIATOR, LEVEL*	LA
	#ALARM/ ANNUNCIATOR, MOISTURE/ HUMIDITY*	MA
	#ALARM/ ANNUNCIATOR, OTHER TYPE*	XA
	#ALARM/ ANNUNCIATOR, POSITION*	ZA
	#ALARM/ ANNUNCIATOR, POWER*	JA
	#ALARM/ ANNUNCIATOR, PRESSURE*	PA
	#ALARM/ ANNUNCIATOR, RADIATION*	RA
	#ALARM/ ANNUNCIATOR, SPEED/ FREQUENCY*	SA
	#ALARM/ ANNUNCIATOR, TEMPERATURE*	TA
	#ALARM/ ANNUNCIATOR, VIBRATION*	VA
	#ALARM/ ANNUNCIATOR, VOLTAGE*	EA
#FLAME	ARRESTOR*	PAR
	# ARRESTOR, LIGHTNING*	LAR
#CONTROL ROD	ASSEMBLY*	CRA
#FUEL	ASSEMBLY*	PLA
#MONITOR,	ATMOSPHERIC CONDITION*	AS
	# AVERAGER*	AVE

APPENDIX C - TABLE 2

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

#PUMP, AXIAL*		PMPA
#RELAY, DIRECTIONAL/	BALANCE*	ORLY
#VALVE OPERATOR,	BALANCE*	VOL
#VALVE,	BALANCING, CARBON STEEL*	BAVC
#VALVE,	BALANCING, OTHER MATERIAL*	BAVX
#VALVE,	BALANCING, STAINLESS STEEL*	BAVS
#VALVE,	BALANCING, UNKNOWN MATERIAL*	BAVZ
#VALVE OPERATOR,	BALL*	VQW
#FIRE	BARRIER*	FBR
#	BASKET, ICE CONDENSER*	BSKT
#INDICATOR,	BATTERY CHARGER*	BT
#	BATTERY*	BY
#CHARGER,	BATTERY*	BYC
#	BEARING/ BUSHING*	BRG
#	BELT*	BLT
#	BISTABLE*	BIS
#TERMINAL	BLOCK*	TB
#FAN/	BLOWER*	FAN
#VALVE,	BLOWOFF, CARBON STEEL*	BOVC
#VALVE,	BLOWOFF, OTHER MATERIAL*	BOVX
#VALVE,	BLOWOFF, STAINLESS STEEL*	BOVS
#VALVE,	BLOWOFF, UNKNOWN MATERIAL*	BOVZ
#	BOARD/ PANEL*	BO
#	BOILER*	BLR
#GAS	BOTTLES & MANIFOLD*	GBM
#	BOX, JUNCTION*	JBX
#	BOX, OTHER TYPE*	BX
#	BRAKE*	BRK
#CIRCUIT	BREAKER, AC*	B2
#CIRCUIT	BREAKER, DC*	BZ
#	BREAKER, VACUUM*	VACB
#ISOLATOR/	BUFFER*	ISOL
#WALL/	BULKHEAD*	WALL
#	BUS*	BUS
#BEARING/	BUSHING*	BRG
#PUSH	BUTTON*	PB
#VALVE,	BYPASS, CARBON STEEL*	BYVC
#VALVE,	BYPASS, OTHER MATERIAL*	BYVX
#VALVE,	BYPASS, STAINLESS STEEL*	BYVS
#VALVE,	BYPASS, UNKNOWN MATERIAL*	BYVZ
#RACK/	CABINET*	RK
#STRAY,	CABLE*	TY
#	CABLE/ WIRE*	CWL
#	CAPACITOR*	CAP
#PIPE, LESS THAN 4 INCH DIAMETER,	CARBON STEEL*	PIAC
#PIPE, UNKNOWN DIAMETER,	CARBON STEEL*	PIZC
#PIPE, 10 TO 16 INCH DIAMETER,	CARBON STEEL*	PIOC
#PIPE, 1A INCH AND LARGER DIAMETER,	CARBON STEEL*	PIEC
#PIPE, 4 TO 6 INCH DIAMETER,	CARBON STEEL*	PIBC
#PIPE, 6 TO 10 INCH DIAMETER,	CARBON STEEL*	PICC
#VALVE, BALANCING,	CARBON STEEL*	BAVC
#VALVE, BLOWOFF,	CARBON STEEL*	BOVC
#VALVE, BYPASS,	CARBON STEEL*	BYVC
#VALVE, CHECK,	CARBON STEEL*	CVC
#VALVE, CONTROL, ANALYZER,	CARBON STEEL*	ACVC
#VALVE, CONTROL, CONDUCTIVITY,	CARBON STEEL*	CCVC
#VALVE, CONTROL, FLOW,	CARBON STEEL*	FCVC
#VALVE, CONTROL, LEVEL,	CARBON STEEL*	LCVC
#VALVE, CONTROL, OTHER TYPE,	CARBON STEEL*	XCVC
#VALVE, CONTROL, PRESSURE,	CARBON STEEL*	PCVC
#VALVE, CONTROL, SPEED/ FREQUENCY,	CARBON STEEL*	SCVC
#VALVE, CONTROL, TEMPERATURE,	CARBON STEEL*	TCVC
#VALVE, DRAIN,	CARBON STEEL*	DRVC
#VALVE, FLUSH/ PURGE,	CARBON STEEL*	FLVC
#VALVE, INJECTION,	CARBON STEEL*	INVC
#VALVE, ISOLATION/ SHUTOFF,	CARBON STEEL*	ISVC
#VALVE, LEAKOFF,	CARBON STEEL*	LOVC
#VALVE, OTHER TYPE,	CARBON STEEL*	XVC
#VALVE, PRESSURE REDUCING,	CARBON STEEL*	PRVC
#VALVE, RECIRCULATION,	CARBON STEEL*	RMVC
#VALVE, RELIEF, SELF-ACTING,	CARBON STEEL*	RVC
#VALVE, RELIEF w/OPERATOR,	CARBON STEEL*	ORVC
#VALVE, ROOT,	CARBON STEEL*	RTVC
#VALVE, SAMPLE,	CARBON STEEL*	SMVC
#VALVE, TELLTALE,	CARBON STEEL*	TTVC
#VALVE, TEST,	CARBON STEEL*	TVC
#VALVE, UNKNOWN TYPE,	CARBON STEEL*	ZVC
#VALVE, VENT,	CARBON STEEL*	VTVC
#	CARB. CIRCUIT*	CCD

APPENDIX C - TABLE 2

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

	# CATHODE RAY TUBE*	CRT
#CONTROL	CENTER, MOTOR*	MCC
#TRANSFORMER,	CENTRAL POWER*	XCPT
#PUMP,	CENTRIFUGAL*	PMRB
#INDICATOR, BATTERY	CHARGER*	BI
	# CHARGER, BATTERY*	BYC
#VALVE,	CHECK, CARBON STEEL*	CVC
#VALVE,	CHECK, OTHER MATERIAL*	CVX
#VALVE,	CHECK, STAINLESS STEEL*	CVS
#VALVE,	CHECK, UNKNOWN MATERIAL*	CVZ
	# CHEMICAL ADDITION INJECTOR*	CAI
	# CIRCUIT BREAKER, AC*	SZ
	# CIRCUIT BREAKER, DC*	7Z
#CARD,	CIRCUIT*	CCD
	# CLEANUP EQUIPMENT, MISCELLANEOUS*	CUE
	# CLUTCH*	CLU
	# COIL*	CL
	# COIL, COOLING*	CCL
	# COIL, DRAIN*	DCL
	# COIL, HEATING*	MCL
	# COLLECTOR*	COL
	# COMMUNICATIONS EQUIPMENT*	COM
#UNKNOWN	COMPONENT*	ZZZ
	# COMPRESSOR*	C4P
	# COMPUTER*	CPU
	# CONCRETE STRUCTURE/ SHIELD*	CSTR
#PRESTRESSED	CONCRETE/ TENDON AND ANCHORAGE*	PSC
#BASKET, ICE	CONDENSER*	B5KT
	# CONDENSER*	COMO
	# CONDENSER, ICE*	ICDN
#MONITOR, ATMOSPHERIC	CONDITION*	45
#MONITOR, MECHANICAL	CONDITION*	39
#ALARM/ ANNUNCIATOR,	CONDUCTIVITY*	CA
#CONTROL,	CONDUCTIVITY*	CC
#INDICATOR,	CONDUCTIVITY*	CI
#PRIMARY ELEMENT,	CONDUCTIVITY*	CE
#RECORDER,	CONDUCTIVITY*	CR
#SWITCH,	CONDUCTIVITY*	CS
#TRANSMITTER,	CONDUCTIVITY*	CT
#VALVE, CONTROL,	CONDUCTIVITY, CARBON STEEL*	CCVC
#VALVE, CONTROL,	CONDUCTIVITY, OTHER MATERIAL*	CCVX
#VALVE, CONTROL,	CONDUCTIVITY, STAINLESS STEEL*	CCVS
#VALVE, CONTROL,	CONDUCTIVITY, UNKNOWN MATERIAL*	CCVZ
	# CONDUIT*	CND
	# CONNECTOR*	CON
	# CONSOLE*	CSL
#CONTACTOR/	CONTACTS*	CNTR
	CONTACTS*	CNTR
	# CONTRACTOR PERSONNEL*	PCP
	# CONTROL CENTER, MOTOR*	MCC
	# CONTROL OPERATOR*	CO
	# CONTROL ROD ASSEMBLY*	CRA
	# CONTROL ROD DRIVE*	CRD
	# CONTROL ROD*	CRB
	# CONTROL STATION*	CNST
	# CONTROL UNIT, REMOTE*	RCU
#SWITCH,	CONTROL*	CSW
	# CONTROL, ANALYZER*	AC
#VALVE,	CONTROL, ANALYZER, CARBON STEEL*	ACVC
#VALVE,	CONTROL, ANALYZER, OTHER MATERIAL*	ACVX
#VALVE,	CONTROL, ANALYZER, STAINLESS STEEL*	ACVS
#VALVE,	CONTROL, ANALYZER, UNKNOWN MATERIAL*	ACVZ
	# CONTROL, CONDUCTIVITY*	CC
#VALVE,	CONTROL, CONDUCTIVITY, CARBON STEEL*	CCVC
#VALVE,	CONTROL, CONDUCTIVITY, OTHER MATERIAL*	CCVX
#VALVE,	CONTROL, CONDUCTIVITY, STAINLESS STEEL*	CCVS
#VALVE,	CONTROL, CONDUCTIVITY, UNKNOWN MATERIAL*	CCVZ
	# CONTROL, CURRENT*	IC
	# CONTROL, FLOW*	FC
#VALVE,	CONTROL, FLOW, CARBON STEEL*	FCVC
#VALVE,	CONTROL, FLOW, OTHER MATERIAL*	FCVX
#VALVE,	CONTROL, FLOW, STAINLESS STEEL*	FCVS
#VALVE,	CONTROL, FLOW, UNKNOWN MATERIAL*	FCVZ
	# CONTROL, LEVEL*	LC
#VALVE,	CONTROL, LEVEL, CARBON STEEL*	LCVC
#VALVE,	CONTROL, LEVEL, OTHER MATERIAL*	LCVX
#VALVE,	CONTROL, LEVEL, STAINLESS STEEL*	LCVS
#VALVE,	CONTROL, LEVEL, UNKNOWN MATERIAL*	LCVZ
	# CONTROL, MOISTURE/ HUMIDITY*	MC
	# CONTROL, MULTI-VARIABLE*	MUC
	# CONTROL, OTHER TYPE*	XC
#VALVE,	CONTROL, OTHER TYPE, CARBON STEEL*	XCVC
#VALVE,	CONTROL, OTHER TYPE, OTHER MATERIAL*	XC VX
#VALVE,	CONTROL, OTHER TYPE, STAINLESS STEEL*	XCVS
#VALVE,	CONTROL, OTHER TYPE, UNKNOWN MATERIAL*	XC VZ
	# CONTROL, POSITION*	ZC
	# CONTROL, POWER*	JC

APPENDIX C - TABLE 2

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

# CONTROL, PRESSURE*	PC
#VALVE, CONTROL, PRESSURE, CARBON STEEL*	PCVC
#VALVE, CONTROL, PRESSURE, OTHER MATERIAL*	PCVX
#VALVE, CONTROL, PRESSURE, STAINLESS STEEL*	PCVS
#VALVE, CONTROL, PRESSURE, UNKNOWN MATERIAL*	PCVZ
# CONTROL, SPEED/ FREQUENCY*	SC
#VALVE, CONTROL, SPEED/ FREQUENCY, CARBON STEEL*	SCVC
#VALVE, CONTROL, SPEED/ FREQUENCY, OTHER MATERIAL*	SCVX
#VALVE, CONTROL, SPEED/ FREQUENCY, STAINLESS STEEL*	SCVS
#VALVE, CONTROL, SPEED/ FREQUENCY, UNKNOWN MATERIAL*	SCVZ
# CONTROL, TEMPERATURE*	TC
#VALVE, CONTROL, TEMPERATURE, CARBON STEEL*	TCVC
#VALVE, CONTROL, TEMPERATURE, OTHER MATERIAL*	TCVX
#VALVE, CONTROL, TEMPERATURE, STAINLESS STEEL*	TCVS
#VALVE, CONTROL, TEMPERATURE, UNKNOWN MATERIAL*	TCVZ
# CONTROL, TORQUE/ FORCE*	WC
# CONTROL, VOLTAGE*	EC
# CONTROLLER*	PNC
# CONVERTER*	CNV
#FAN COOLER UNIT*	FCU
# COOLER*	CLR
# COOLING TOWER*	CTW
#COIL, COOLING*	CCL
# COUPLING*	CPG
#DOOR/ COVER/ HATCH*	DR
# CRANE*	CRN
#ALARM/ ANNUNCIATOR, CURRENT*	IA
#CONTROL, CURRENT*	IC
#INDICATOR, CURRENT*	II
#PRIMARY ELEMENT, CURRENT*	IE
#RECORDER, CURRENT*	IR
#SWITCH, CURRENT*	IS
#TRANSFORMER, CURRENT*	XCT
#TRANSFORMER, VOLTAGE REGULATOR/ TRANSMITTER, CURRENT*	XVCT
	IT
OTHER COMPONENT	YYY
# DAMPER/ LOUVER*	DWP
# DATA LOGGER*	DAL
#CIRCUIT BREAKER, DC*	72
#RELAY, TIME DELAY*	TDR
# POTENTIAL DEVICE*	DM
#RELAY, UNDERSPEED (DEVICE)*	PO
#PIPE, LESS THAN 4 INCH DIAMETER, CARBON STEEL*	14
#PIPE, UNKNOWN DIAMETER, CARBON STEEL*	PIAC
#PIPE, 10 TO 16 INCH DIAMETER, CARBON STEEL*	PIZC
#PIPE, 16 INCH AND LARGER DIAMETER, CARBON STEEL*	PIDC
#PIPE, 4 TO 6 INCH DIAMETER, CARBON STEEL*	PIEC
#PIPE, 6 TO 10 INCH DIAMETER, CARBON STEEL*	PI3C
#PIPE, LESS THAN 4 INCH DIAMETER, LINED/CLAD*	PIAL
#PIPE, UNKNOWN DIAMETER, LINED/CLAD*	PIZL
#PIPE, 10 TO 16 INCH DIAMETER, LINED/CLAD*	PIDL
#PIPE, 16 INCH AND LARGER DIAMETER, LINED/CLAD*	PIEL
#PIPE, 4 TO 6 INCH DIAMETER, LINED/CLAD*	PIBL
#PIPE, 6 TO 10 INCH DIAMETER, LINED/CLAD*	PICL
#PIPE, LESS THAN 4 INCH DIAMETER, OTHER MATERIAL*	PIAX
#PIPE, UNKNOWN DIAMETER, OTHER MATERIAL*	PIZX
#PIPE, 10 TO 16 INCH DIAMETER, OTHER MATERIAL*	PIOX
#PIPE, 16 INCH AND LARGER DIAMETER, OTHER MATERIAL*	PIEX
#PIPE, 4 TO 6 INCH DIAMETER, OTHER MATERIAL*	PIBX
#PIPE, 6 TO 10 INCH DIAMETER, OTHER MATERIAL*	PICX
#PIPE, LESS THAN 4 INCH DIAMETER, STAINLESS STEEL*	PIAS
#PIPE, UNKNOWN DIAMETER, STAINLESS STEEL*	PIZS
#PIPE, 10 TO 16 INCH DIAMETER, STAINLESS STEEL*	PIOS
#PIPE, 16 INCH AND LARGER DIAMETER, STAINLESS STEEL*	PIES
#PIPE, 4 TO 6 INCH DIAMETER, STAINLESS STEEL*	PIBS
#PIPE, 6 TO 10 INCH DIAMETER, STAINLESS STEEL*	PICS
#PIPE, LESS THAN 4 INCH DIAMETER, UNKNOWN MATERIAL*	PIAZ
#PIPE, UNKNOWN DIAMETER, UNKNOWN MATERIAL*	PIZZ
#PIPE, 10 TO 16 INCH DIAMETER, UNKNOWN MATERIAL*	PIOZ
#PIPE, 16 INCH AND LARGER DIAMETER, UNKNOWN MATERIAL*	PIEZ
#PIPE, 4 TO 6 INCH DIAMETER, UNKNOWN MATERIAL*	PIBZ
#PIPE, 6 TO 10 INCH DIAMETER, UNKNOWN MATERIAL*	PICZ
#PUMP, DIAPHRAGM*	PNPC
# DIAPHRAGM*	DFM
#ENGINE, DIESEL*	DSL
# DIFFERENTIATOR*	DIFP
# DIODE*	DIO
#RELAY, DIRECTIONAL/ BALANCE*	DRLY
#RUPTURE, DISC*	RPO
# DISCHARGE FLUME*	DFM
#SWITCH, DISCONNECT*	DSW
# DOOR/ COVER/ HATCH*	DR
#COIL, DRAIN*	DCL

APPENDIX C - TABLE 2

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

# DRAIN*	DRN
#VALVE, DRAIN, CARBON STEEL*	DRVC
#VALVE, DRAIN, OTHER MATERIAL*	DRVX
#VALVE, DRAIN, STAINLESS STEEL*	DRVS
#VALVE, DRAIN, UNKNOWN MATERIAL*	DRVZ
#CONTROL ROD DRIVE*	CRO
# DRYER*	DRY
#AIR DRYER, ABSORPTION/ ADSORPTION*	ADRY
# DUCT*	DUCT
DRAWINGS/RECORDS	DWG
# EDUCATOR*	EDR
# EJECTOR*	EJR
#HEATER, ELECTRIC*	HTR
#POWER SUPPLY, ELECTRIC*	JX
#VALVE OPERATOR, ELECTRIC/ SERVO*	VOB
#PENETRATION, ELECTRICAL*	PND
#PUMP, ELECTROMAGNETIC*	PNDJ
#FUEL ELEMENT/ROD*	FL
#PRIMARY ELEMENT, ANALYZER*	AE
#PRIMARY ELEMENT, CONDUCTIVITY*	CE
#PRIMARY ELEMENT, CURRENT*	IE
#PRIMARY ELEMENT, FIRE/ SMOKE*	FRE
#PRIMARY ELEMENT, FLOW*	FE
#PRIMARY ELEMENT, FLUX/ NEUTRON*	NE
#PRIMARY ELEMENT, GROUND*	GE
#PRIMARY ELEMENT, INTRUSION*	INE
#PRIMARY ELEMENT, LEVEL*	LE
#PRIMARY ELEMENT, MOISTURE/ HUMIDITY*	ME
#PRIMARY ELEMENT, OTHER/UNKNOWN TYPE*	XE
#PRIMARY ELEMENT, POSITION*	ZE
#PRIMARY ELEMENT, PRESSURE*	PE
#PRIMARY ELEMENT, RADIATION*	RE
#PRIMARY ELEMENT, SPEED/ FREQUENCY*	SE
#PRIMARY ELEMENT, TEMPERATURE*	TE
#PRIMARY ELEMENT, TORQUE/ FORCE*	WE
#PRIMARY ELEMENT, VIBRATION*	VE
#PRIMARY ELEMENT, VOLTAGE*	EE
# ELEVATOR*	ELEV
# ENGINE, DIESEL*	DSL
# ENGINE, OTHER TYPE*	ENG
# ENTIRE SYSTEM*	XXX
#PENETRATION, EQUIPMENT ACCESS*	PNC
#MISCELLANEOUS EQUIPMENT ITEM*	MEI
#COMMUNICATIONS EQUIPMENT*	COM
#FUEL HANDLING EQUIPMENT*	FHE
#LIGHTING EQUIPMENT*	LIT
#CLEANUP EQUIPMENT, MISCELLANEOUS*	CUE
#HANDLING EQUIPMENT, MISCELLANEOUS*	MHE
#HEAT EXCHANGER*	HX
#TRANSFORMER, EXCITATION*	XET
# EXCITER*	EXC
#RELAY, FIELD/ EXCITER*	FRLY
#VALVE OPERATOR, EXPLOSIVE/ SQUIB*	VOG
# FAN COOLER UNIT*	FCU
# FAN/ BLOWER*	FAN
# FASTENER*	FAS
#MISCELLANEOUS STRUCTURAL FEATURES*	NSF
#RELAY, FIELD/ EXCITER*	FRLY
# FILTER (ICC)*	IFLT
# FILTER (PROCESS)*	PLT
# FIRE BARRIER*	FBR
#ALARM/ ANNUNCIATOR, FIRE/ SMOKE*	FRA
#PRIMARY ELEMENT, FIRE/ SMOKE*	FRE
# FLAME ARRESTOR*	FAR
#VALVE OPERATOR, FLOAT*	VOF
#ALARM/ ANNUNCIATOR, FLOW*	FA
#CONTROL, FLOW*	FC
#INDICATOR, FLOW*	FI
#PRIMARY ELEMENT, FLOW*	FE
#RECORDER, FLOW*	FR
#SWITCH, FLOW*	FS
#TRANSMITTER, FLOW*	FT
#VALVE, CONTROL, FLOW, CARBON STEEL*	FCVC
#VALVE, CONTROL, FLOW, OTHER MATERIAL*	FCVX
#VALVE, CONTROL, FLOW, STAINLESS STEEL*	FCVS
#VALVE, CONTROL, FLOW, UNKNOWN MATERIAL*	FCVZ
#DISCHARGE FLUME*	DSFM
#VALVE, FLUSH/ PURGE, CARBON STEEL*	FLVC
#VALVE, FLUSH/ PURGE, OTHER MATERIAL*	FLVX
#VALVE, FLUSH/ PURGE, STAINLESS STEEL*	FLVS

APPENDIX C - TABLE 2
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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

#VALVE, FLUSH/ PURGE, UNKNOWN MATERIAL*	FLVZ
#ALARM/ ANNUNCIATOR, FLUX/ NEUTRON*	NA
#INDICATOR, FLUX/ NEUTRON*	NI
#PRIMARY ELEMENT, FLUX/ NEUTRON*	NP
#RECORDER, FLUX/ NEUTRON*	NR
#TRANSMITTER, FLUX/ NEUTRON*	NT
#SWITCH, FLUX/ NEUTRON*	NS
#CONTROL, TORQUE/ FORCE*	WC
#INDICATOR, TORQUE/ FORCE*	WT
#PRIMARY ELEMENT, TORQUE/ FORCE*	WE
#RECORDER, TORQUE/ FORCE*	WR
#SWITCH, TORQUE/ FORCE*	WS
#TRANSMITTER, TORQUE/ FORCE*	WT
#STRUCTURAL FRAMING AND FOUNDATION*	SFR
#STRUCTURAL FRAMING AND FOUNDATION*	SFR
#ALARM/ ANNUNCIATOR, SPEED/ FREQUENCY*	SA
#CONTROL, SPEED/ FREQUENCY*	SC
#INDICATOR, SPEED/ FREQUENCY*	SI
#PRIMARY ELEMENT, SPEED/ FREQUENCY*	SE
#RECORDER, SPEED/ FREQUENCY*	SR
#RELAY, FREQUENCY*	RI
#SWITCH, SPEED/ FREQUENCY*	SS
#TRANSMITTER, SPEED/ FREQUENCY*	ST
#VALVE, CONTROL, SPEED/ FREQUENCY, CARBON STEEL*	SCVC
#VALVE, CONTROL, SPEED/ FREQUENCY, OTHER MATERIAL*	SCVX
#VALVE, CONTROL, SPEED/ FREQUENCY, STAINLESS STEEL*	SCVS
#VALVE, CONTROL, SPEED/ FREQUENCY, UNKNOWN MATERIAL*	SCVZ
# FUEL ASSEMBLY*	FLA
# FUEL ELEMENT/ROD*	PLE
# FUEL HANDLING EQUIPMENT*	FHE
#PENETRATION, FUEL HANDLING*	PNB
# FUSE*	FU
# GAS BOTTLES & MANIFOLD*	GBM
# GEAR*	GR
#PUMP, GEAR*	PNPD
# GENERATOR*	GEN
#STEAM GENERATOR*	SG
# GENERATOR, MOTOR*	MG
# GOVERNOR*	GS
#INDICATOR, GROUND*	GI
#PRIMARY ELEMENT, GROUND*	GE
#SWITCH, HAND*	HS
#FUEL HANDLING EQUIPMENT*	FHE
# HANDLING EQUIPMENT, MISCELLANEOUS*	MHE
#PENETRATION, FUEL HANDLING*	PNB
#AIR HANDLING/CONDITIONING UNIT (HEATING AND VENTILATION)*	AHU
# HANGER*	HANG
#DOOR/ COVER/ HATCH*	DR
# HEAT EXCHANGER*	HX
# HEAT TRACING*	HTTR
# HEATER, ELECTRIC*	HTRF
# HEATER, OTHER TYPE*	HTR
#AIR HANDLING/CONDITIONING UNIT (HEATING AND VENTILATION)*	AHU
#COIL, HEATING*	HCL
# HOSE*	HOSE
#ALARM/ ANNUNCIATOR, MOISTURE/ HUMIDITY*	MA
#CONTROL, MOISTURE/ HUMIDITY*	MC
#INDICATOR, MOISTURE/ HUMIDITY*	MI
#PRIMARY ELEMENT, MOISTURE/ HUMIDITY*	ME
#RECORDER, MOISTURE/ HUMIDITY*	MR
#SWITCH, MOISTURE/ HUMIDITY*	MS
#TRANSMITTER, MOISTURE/ HUMIDITY*	MT
# HYDRANT*	HVD
#VALVE OPERATOR, HYDRAULIC*	VOC
#FILTER (I&C)*	FLT
#BASKET, ICE CONDENSER*	BKST
#CONDENSER, ICE*	ICDN
#PIPE, 1/8 INCH AND LARGER DIAMETER, CARBON STEEL*	PIE1
#PIPE, 1/8 INCH AND LARGER DIAMETER, LINED/CLAD*	PIE2
#PIPE, 1/8 INCH AND LARGER DIAMETER, OTHER MATERIAL*	PIE3
#PIPE, 1/8 INCH AND LARGER DIAMETER, STAINLESS STEEL*	PIE4
#PIPE, 1/8 INCH AND LARGER DIAMETER, UNKNOWN MATERIAL*	PIE5
#PIPE, LESS THAN 1/8 INCH DIAMETER, CARBON STEEL*	PIA1
#PIPE, 1/8 TO 1/4 INCH DIAMETER, CARBON STEEL*	PIA2
#PIPE, 1/4 TO 1/2 INCH DIAMETER, CARBON STEEL*	PIA3

APPENDIX C - TABLE 2
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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

#PIPE, 6 TO 10	INCH DIAMETER, CARBON STEEL*	PICC
#PIPE, LESS THAN 4	INCH DIAMETER, LINED/CLAD*	PIAL
#PIPE, 10 TO 16	INCH DIAMETER, LINED/CLAD*	PIOL
#PIPE, 4 TO 6	INCH DIAMETER, LINED/CLAD*	PIBL
#PIPE, 6 TO 10	INCH DIAMETER, LINED/CLAD*	PICL
#PIPE, LESS THAN 4	INCH DIAMETER, OTHER MATERIAL*	PIAX
#PIPE, 10 TO 16	INCH DIAMETER, OTHER MATERIAL*	PIOX
#PIPE, 4 TO 6	INCH DIAMETER, OTHER MATERIAL*	PIBX
#PIPE, 6 TO 10	INCH DIAMETER, OTHER MATERIAL*	PICX
#PIPE, LESS THAN 4	INCH DIAMETER, STAINLESS STEEL*	PIAS
#PIPE, 10 TO 16	INCH DIAMETER, STAINLESS STEEL*	PIOS
#PIPE, 4 TO 6	INCH DIAMETER, STAINLESS STEEL*	PIBS
#PIPE, 6 TO 10	INCH DIAMETER, STAINLESS STEEL*	PICS
#PIPE, LESS THAN 4	INCH DIAMETER, UNKNOWN MATERIAL*	PIAZ
#PIPE, 10 TO 16	INCH DIAMETER, UNKNOWN MATERIAL*	PIOZ
#PIPE, 4 TO 6	INCH DIAMETER, UNKNOWN MATERIAL*	PIBZ
#PIPE, 6 TO 10	INCH DIAMETER, UNKNOWN MATERIAL*	PICZ
#INDICATOR, ANALYZER*		AI
#INDICATOR, BATTERY CHARGER*		BI
#INDICATOR, CONDUCTIVITY*		CI
#INDICATOR, CURRENT*		II
#INDICATOR, FLOW*		FI
#INDICATOR, FLUX/ NEUTRON*		NI
#INDICATOR, GROUND*		GI
#INDICATOR, LEVEL*		LI
#INDICATOR, MOISTURE/ HUMIDITY*		MI
#INDICATOR, MULTI-VARIABLE*		MUI
#INDICATOR, OTHER TYPE*		XI
#INDICATOR, POSITION*		ZI
#INDICATOR, POWER*		PI
#INDICATOR, PRESSURE*		RI
#INDICATOR, RADIATION*		SI
#INDICATOR, SPEED/ FREQUENCY*		TI
#INDICATOR, TEMPERATURE*		KI
#INDICATOR, TIME*		WI
#INDICATOR, TORQUE/ FORCE*		VI
#INDICATOR, VIBRATION*		EI
#INDICATOR, VOLTAGE*		
#VALVE, INJECTION, CARBON STEEL*		INVC
#VALVE, INJECTION, OTHER MATERIAL*		INVX
#VALVE, INJECTION, STAINLESS STEEL*		INVS
#VALVE, INJECTION, UNKNOWN MATERIAL*		INVZ
#CHEMICAL ADDITION	INJECTOR*	CAT
#PENETRATION, INSTRUMENT LINE*		PNE
#INSULATION*		ISL
#INTEGRATOR*		INT
#TOTALIZER/ INTEGRATOR*		TOT
#INTERLOCK*		INL
#ALARM/ ANNUNCIATOR, INTRUSION*		INA
#PRIMARY ELEMENT, INTRUSION*		INE
#INVERTER*		INV
#TRANSFORMER, ISOLATION*		XIT
#VALVE, ISOLATION/ SHUTOFF, CARBON STEEL*		ISVC
#VALVE, ISOLATION/ SHUTOFF, OTHER MATERIAL*		ISVX
#VALVE, ISOLATION/ SHUTOFF, STAINLESS STEEL*		ISVS
#VALVE, ISOLATION/ SHUTOFF, UNKNOWN MATERIAL*		ISVZ
#ISOLATOR/ BUFFER*		ISOL
#MISCELLANEOUS EQUIPMENT	ITEM*	WEI
#PUMP, JET*		PNPK
#BOX, JUNCTION*		JBX
#ACCESS PLATFORM/ STAIR/ LADDER*		APL
#PIPE, 16 INCH AND LARGER DIAMETER, CARBON STEEL*		PIEC
#PIPE, 16 INCH AND LARGER DIAMETER, LINED/CLAD*		PIEL
#PIPE, 16 INCH AND LARGER DIAMETER, OTHER MATERIAL*		PIEX
#PIPE, 16 INCH AND LARGER DIAMETER, STAINLESS STEEL*		PIES
#PIPE, 16 INCH AND LARGER DIAMETER, UNKNOWN MATERIAL*		PIEZ
#VALVE, LEAKOFF, CARBON STEEL*		LOVC
#VALVE, LEAKOFF, OTHER MATERIAL*		LOVX
#VALVE, LEAKOFF, STAINLESS STEEL*		LOVS
#VALVE, LEAKOFF, UNKNOWN MATERIAL*		LOVZ
#PIPE, LESS THAN 4 INCH DIAMETER, CARBON STEEL*		PIAC
#PIPE, LESS THAN 4 INCH DIAMETER, LINED/CLAD*		PIAL
#PIPE, LESS THAN 4 INCH DIAMETER, OTHER MATERIAL*		PIAX
#PIPE, LESS THAN 4 INCH DIAMETER, STAINLESS STEEL*		PIAS
#PIPE, LESS THAN 4 INCH DIAMETER, UNKNOWN MATERIAL*		PIAZ
#ALARM/ ANNUNCIATOR, LEVEL*		LA
#CONTROL, LEVEL*		LC
#INDICATOR, LEVEL*		LI
#PRIMARY ELEMENT, LEVEL*		LE

APPENDIX C - TABLE 2

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PERMUTED LISTINGS OF COMPONENT CODE DESCRIPTIONS

#RECORDER,	LEVEL*	LR
#SWITCH,	LEVEL*	LS
#TRANSMITTER,	LEVEL*	LT
#VALVE, CONTROL,	LEVEL, CARBON STEEL*	LCVX
#VALVE, CONTROL,	LEVEL, OTHER MATERIAL*	LCVX
#VALVE, CONTROL,	LEVEL, STAINLESS STEEL*	LCVX
#VALVE, CONTROL,	LEVEL, UNKNOWN MATERIAL*	LCVZ
#	LICENSED OPERATORS*	PLD
#NQM-	LICENSED OPERATORS*	PND
#	LIGHTING EQUIPMENT*	LIT
#TRANSFORMER,	LIGHTING*	XLT
#ARRESTOR,	LIGHTNING*	LAR
#PENETRATION, INSTRUMENT	LINE*	PNE
#SENSING	LINE*	SL
#TRANSMISSION	LINE*	TLIN
#PIPE, LESS THAN 4 INCH DIAMETER,	LINED/CLAD*	PIAL
#PIPE, UNKNOWN DIAMETER,	LINED/CLAD*	PIZL
#PIPE, 10 TO 16 INCH DIAMETER,	LINED/CLAD*	PIOL
#PIPE, 16 INCH AND LARGER DIAMETER,	LINED/CLAD*	PIEL
#PIPE, 4 TO 6 INCH DIAMETER,	LINED/CLAD*	PIBL
#PIPE, 6 TO 10 INCH DIAMETER,	LINED/CLAD*	PICL
#RELAY,	LOCKOUT/ TRIPPING*	LOR
#DATA	LOGGER*	DAL
#DAMPER/	LOUVER*	DMP
#GAS BOTTLES &	MANIFOLD*	GBM
#VALVE OPERATOR,	MANUAL*	VGA
#PIPE, LESS THAN 4 INCH DIAMETER, OTHER	MATERIAL*	PIAX
#PIPE, LESS THAN 4 INCH DIAMETER, UNKNOWN	MATERIAL*	PIAZ
#PIPE, UNKNOWN DIAMETER, OTHER	MATERIAL*	PIZX
#PIPE, UNKNOWN DIAMETER, UNKNOWN	MATERIAL*	PIZZ
#PIPE, 10 TO 16 INCH DIAMETER, OTHER	MATERIAL*	PIDX
#PIPE, 10 TO 16 INCH DIAMETER, UNKNOWN	MATERIAL*	PIOZ
#PIPE, 16 INCH AND LARGER DIAMETER, OTHER	MATERIAL*	PIEX
#PIPE, 16 INCH AND LARGER DIAMETER, UNKNOWN	MATERIAL*	PIEZ
#PIPE, 4 TO 6 INCH DIAMETER, OTHER	MATERIAL*	PIBX
#PIPE, 4 TO 6 INCH DIAMETER, UNKNOWN	MATERIAL*	PIBZ
#PIPE, 6 TO 10 INCH DIAMETER, OTHER	MATERIAL*	PICX
#PIPE, 6 TO 10 INCH DIAMETER, UNKNOWN	MATERIAL*	PICZ
#VALVE, BALANCING, OTHER	MATERIAL*	BAVX
#VALVE, BALANCING, UNKNOWN	MATERIAL*	BAVZ
#VALVE, SLOWOFF, OTHER	MATERIAL*	BOVX
#VALVE, SLOWOFF, UNKNOWN	MATERIAL*	BOVZ
#VALVE, BYPASS, OTHER	MATERIAL*	BYVX
#VALVE, BYPASS, UNKNOWN	MATERIAL*	BYVZ
#VALVE, CHECK, OTHER	MATERIAL*	CVX
#VALVE, CHECK, UNKNOWN	MATERIAL*	CVZ
#VALVE, CONTROL, ANALYZER, OTHER	MATERIAL*	ACVX
#VALVE, CONTROL, ANALYZER, UNKNOWN	MATERIAL*	ACVZ
#VALVE, CONTROL, CONDUCTIVITY, OTHER	MATERIAL*	CCVX
#VALVE, CONTROL, CONDUCTIVITY, UNKNOWN	MATERIAL*	CCVZ
#VALVE, CONTROL, FLOW, OTHER	MATERIAL*	FCVX
#VALVE, CONTROL, FLOW, UNKNOWN	MATERIAL*	FCVZ
#VALVE, CONTROL, LEVEL, OTHER	MATERIAL*	LCVX
#VALVE, CONTROL, LEVEL, UNKNOWN	MATERIAL*	LCVZ
#VALVE, CONTROL, OTHER TYPE, OTHER	MATERIAL*	XCVX
#VALVE, CONTROL, OTHER TYPE, UNKNOWN	MATERIAL*	XCVZ
#VALVE, CONTROL, PRESSURE, OTHER	MATERIAL*	PCVX
#VALVE, CONTROL, PRESSURE, UNKNOWN	MATERIAL*	PCVZ
#VALVE, CONTROL, SPEED/ FREQUENCY, OTHER	MATERIAL*	SCVX
#VALVE, CONTROL, SPEED/ FREQUENCY, UNKNOWN	MATERIAL*	SCVZ
#VALVE, CONTROL, TEMPERATURE, OTHER	MATERIAL*	TCVX
#VALVE, CONTROL, TEMPERATURE, UNKNOWN	MATERIAL*	TCVZ
#VALVE, DRAIN, OTHER	MATERIAL*	DRVX
#VALVE, DRAIN, UNKNOWN	MATERIAL*	DRVZ
#VALVE, FLUSH/ PURGE, OTHER	MATERIAL*	FLVX
#VALVE, FLUSH/ PURGE, UNKNOWN	MATERIAL*	FLVZ
#VALVE, INJECTION, OTHER	MATERIAL*	INVX
#VALVE, INJECTION, UNKNOWN	MATERIAL*	INVZ
#VALVE, ISOLATION/ SHUTOFF, OTHER	MATERIAL*	ISVX
#VALVE, ISOLATION/ SHUTOFF, UNKNOWN	MATERIAL*	ISVZ
#VALVE, LEAKOFF, OTHER	MATERIAL*	LOVX
#VALVE, LEAKOFF, UNKNOWN	MATERIAL*	LOVZ
#VALVE, OTHER TYPE, OTHER	MATERIAL*	XVX
#VALVE, OTHER TYPE, UNKNOWN	MATERIAL*	XVZ
#VALVE, PRESSURE REDUCING, OTHER	MATERIAL*	PRVX
#VALVE, PRESSURE REDUCING, UNKNOWN	MATERIAL*	PRVZ
#VALVE, RECIRCULATION, OTHER	MATERIAL*	RMVX
#VALVE, RECIRCULATION, UNKNOWN	MATERIAL*	RMVZ
#VALVE, RELIEF, SELF-ACTING, OTHER	MATERIAL*	RVX
#VALVE, RELIEF, SELF-ACTING, UNKNOWN	MATERIAL*	RVZ
#VALVE, RELIEF W/OPERATOR, OTHER	MATERIAL*	ORVX
#VALVE, RELIEF W/OPERATOR, UNKNOWN	MATERIAL*	ORVZ
#VALVE, ROOT, OTHER	MATERIAL*	RTVX

APPENDIX C - TABLE 2
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PRINTED LISTING OF COMPONENT CODE DESCRIPTIONS

#VALVE, ROOT, UNKNOWN	MATERIAL*	RTVZ
#VALVE, SAMPLE, OTHER	MATERIAL*	SMVX
#VALVE, SAMPLE, UNKNOWN	MATERIAL*	SMVZ
#VALVE, TELLTALE, OTHER	MATERIAL*	TTVX
#VALVE, TELLTALE, UNKNOWN	MATERIAL*	TTVZ
#VALVE, TEST, OTHER	MATERIAL*	TVX
#VALVE, TEST, UNKNOWN	MATERIAL*	TVZ
#VALVE, UNKNOWN TYPE, OTHER	MATERIAL*	ZVX
#VALVE, UNKNOWN TYPE, UNKNOWN	MATERIAL*	ZVZ
#VALVE, VENT, OTHER	MATERIAL*	VTVX
#VALVE, VENT, UNKNOWN	MATERIAL*	VTVZ
#MONITOR,	MECHANICAL CONDITION*	39
#VALVE OPERATOR,	MECHANICAL*	VGH
	# MISCELLANEOUS EQUIPMENT ITEM*	MFI
	# MISCELLANEOUS STRUCTURAL FEATURES*	MSF
	# MISCELLANEOUS SUBCOMPONENT*	MSC
#CLEANUP EQUIPMENT,	MISCELLANEOUS*	CUE
#HANDLING EQUIPMENT,	MISCELLANEOUS*	MHE
	# MODIFIER*	MOF
#ALARM/ ANNUNCIATOR,	MOISTURE/ HUMIDITY*	MA
#CONTROL,	MOISTURE/ HUMIDITY*	MC
#INDICATOR,	MOISTURE/ HUMIDITY*	MI
#PRIMARY ELEMENT,	MOISTURE/ HUMIDITY*	ME
#RECORDER,	MOISTURE/ HUMIDITY*	MR
#SWITCH,	MOISTURE/ HUMIDITY*	MS
#TRANSMITTER,	MOISTURE/ HUMIDITY*	MT
	# MONITOR*	MGN
#WELL, SPECIAL PROCESS	MONITOR*	XW
	# MONITOR, ATMOSPHERIC CONDITION*	45
	# MONITOR, MECHANICAL CONDITION*	39
	# MOTOR STARTER*	MSTR
#CONTROL CENTER,	MOTOR*	MCC
#GENERATOR,	MOTOR*	MG
	# MOTOR*	MOT
#CONTROL,	MULTI-VARIABLE*	MUC
#INDICATOR,	MULTI-VARIABLE*	MUI
#RECORDER,	MULTI-VARIABLE*	MUR
#SWITCH,	MULTI-VARIABLE*	MUS
#TRANSMITTER,	MULTI-VARIABLE*	MUT
#ALARM/ ANNUNCIATOR, FLUX/	NEUTRON*	NA
#INDICATOR, FLUX/	NEUTRON*	NI
#PRIMARY ELEMENT, FLUX/	NEUTRON*	NE
#RECORDER, FLUX/	NEUTRON*	NR
#TRANSMITTER, FLUX/	NEUTRON*	NT
#SWITCH, FLUX/	NEUTRON*	NS
	# NON-LICENSED OPERATORS*	PNQ
	# NOZZLE*	NZL
#CONTROL OPERATOR*		CO
#VALVE OPERATOR, BALANCE*		VOL
#VALVE OPERATOR, BALL*		VGH
#VALVE OPERATOR, ELECTRIC/ SERVO*		VOR
#VALVE OPERATOR, EXPLOSIVE/ SQUIB*		VGG
#VALVE OPERATOR, FLOAT*		VGF
#VALVE OPERATOR, HYDRAULIC*		VOC
#VALVE OPERATOR, MANUAL*		VQA
#VALVE OPERATOR, MECHANICAL*		VCH
#VALVE OPERATOR, OTHER TYPE*		VOX
#VALVE OPERATOR, PISTON*		VOK
#VALVE OPERATOR, PNEUMATIC*		VOD
#VALVE OPERATOR, SOLENOID*		VOE
#VALVE OPERATOR, UNKNOWN TYPE*		VQZ
#LICENSED OPERATORS*		PLQ
#NON-LICENSED OPERATORS*		PNQ
	# OSCILLATOR*	OSL
#PIPE, LESS THAN 4 INCH DIAMETER,	OTHER MATERIAL*	PIAX
#PIPE, UNKNOWN DIAMETER,	OTHER MATERIAL*	PIZX
#PIPE, 1/2 TO 1 1/2 INCH DIAMETER,	OTHER MATERIAL*	PIDX
#PIPE, 1 1/2 INCH AND LARGER DIAMETER,	OTHER MATERIAL*	PIEX
#PIPE, 4 TO 6 INCH DIAMETER,	OTHER MATERIAL*	PIBX
#PIPE, 6 TO 10 INCH DIAMETER,	OTHER MATERIAL*	PICX
#VALVE, BALANCING,	OTHER MATERIAL*	BAVX
#VALVE, BLOWOFF,	OTHER MATERIAL*	BOVX
#VALVE, BYPASS,	OTHER MATERIAL*	BYVX
#VALVE, CHECK,	OTHER MATERIAL*	CVX
#VALVE, CONTROL, ANALYZER,	OTHER MATERIAL*	ACVX
#VALVE, CONTROL, CONDUCTIVITY,	OTHER MATERIAL*	CCVX
#VALVE, CONTROL, FLOW,	OTHER MATERIAL*	FCVX
#VALVE, CONTROL, LEVEL,	OTHER MATERIAL*	LCVX
#VALVE, CONTROL, OTHER TYPE,	OTHER MATERIAL*	ECVX
	OTHER COMPONENT	YYY

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

#VALVE, CONTROL, PRESSURE,	OTHER MATERIAL*	PCVX
#VALVE, CONTROL, SPEED/ FREQUENCY,	OTHER MATERIAL*	SCVX
#VALVE, CONTROL, TEMPERATURE,	OTHER MATERIAL*	TCVX
#VALVE, DRAIN,	OTHER MATERIAL*	QVX
#VALVE, FLUSH/ PURGE,	OTHER MATERIAL*	FLVX
#VALVE, INJECTION,	OTHER MATERIAL*	INVX
#VALVE, ISOLATION/ SHUTOFF,	OTHER MATERIAL*	ISVX
#VALVE, LEAKOFF,	OTHER MATERIAL*	LCVX
#VALVE, OTHER TYPE,	OTHER MATERIAL*	XVX
#VALVE, PRESSURE REDUCING,	OTHER MATERIAL*	PRVX
#VALVE, RECIRCULATION,	OTHER MATERIAL*	RHVX
#VALVE, RELIEF, SELF-ACTING,	OTHER MATERIAL*	RVX
#VALVE, RELIEF W/OPERATOR,	OTHER MATERIAL*	ORVX
#VALVE, ROOT,	OTHER MATERIAL*	RTVX
#VALVE, SAMPLE,	OTHER MATERIAL*	SMVX
#VALVE, TELLTALE,	OTHER MATERIAL*	TTVX
#VALVE, TEST,	OTHER MATERIAL*	TVX
#VALVE, UNKNOWN TYPE,	OTHER MATERIAL*	ZVX
#VALVE, VENT,	OTHER MATERIAL*	VTVX
#ALARM/ ANNUNCIATOR,	OTHER PERSONNEL*	PX
#BOX,	OTHER TYPE*	XA
#CONTROL,	OTHER TYPE*	BX
#ENGINE,	OTHER TYPE*	XC
#HEATER,	OTHER TYPE*	ENG
#INDICATOR,	OTHER TYPE*	HTR
#PUMP,	OTHER TYPE*	XI
#RECORDER,	OTHER TYPE*	PMPX
#SWITCH,	OTHER TYPE*	XR
#TRANSFORMER,	OTHER TYPE*	XS
#TRANSMITTER,	OTHER TYPE*	XFMR
#VALVE OPERATOR,	OTHER TYPE*	XT
#VALVE, CONTROL,	OTHER TYPE, CARBON STEEL*	VQX
#VALVE,	OTHER TYPE, CARBON STEEL*	XCVX
#VALVE, CONTROL,	OTHER TYPE, OTHER MATERIAL*	XVC
#VALVE,	OTHER TYPE, OTHER MATERIAL*	XCVX
#VALVE, CONTROL,	OTHER TYPE, STAINLESS STEEL*	XVX
#VALVE,	OTHER TYPE, STAINLESS STEEL*	XCVS
#VALVE, CONTROL,	OTHER TYPE, UNKNOWN MATERIAL*	XVS
#VALVE,	OTHER TYPE, UNKNOWN MATERIAL*	XCXZ
#VALVE,	OTHER TYPE, UNKNOWN MATERIAL*	XVZ
#PENETRATION,	OTHER/ UNKNOWN UTILITY PERSONNEL*	PUX
#PRIMARY ELEMENT,	OTHER/UNKNOWN TYPE*	PEN
#RELAY,	OTHER/UNKNOWN TYPE*	XE
#RELAY,	OVERCURRENT*	RLY
#RELAY, THERMAL,	OVERLOAD*	OCR
#RELAY,	OVERSPEED*	49
#RELAY,	OVERVOLTAGE*	12
		59
#SURGE PROTECTION BOARD/	PACKAGE*	SPP
#BOARD/	PANEL*	BO
#PENETRATION,	ELECTRICAL*	PND
#PENETRATION,	EQUIPMENT ACCESS*	PNC
#PENETRATION,	FUEL HANDLING*	PNB
#PENETRATION,	INSTRUMENT LINE*	PNE
#PENETRATION,	OTHER/UNKNOWN TYPE*	PNH
#PENETRATION,	PERSONNEL ACCESS*	PMA
#PENETRATION,	PROCESS PIPING*	PNF
#PENETRATION,	PERSONNEL ACCESS*	PNA
#OTHER/ UNKNOWN UTILITY	PERSONNEL*	PUX
#CONTRACTOR	PERSONNEL*	PCP
#OTHER	PERSONNEL*	PX
#UNKNOWN	PERSONNEL*	PZ
#RELAY,	PHASE*	PRLY
#RELAY,	PILOT WIRE*	55
#PIPE, LESS THAN 4 INCH DIAMETER,	CARBON STEEL*	PIAC
#PIPE, LESS THAN 4 INCH DIAMETER,	LINED/CLAD*	PIAL
#PIPE, LESS THAN 4 INCH DIAMETER,	OTHER MATERIAL*	PIAX
#PIPE, LESS THAN 4 INCH DIAMETER,	STAINLESS STEEL*	PIAS
#PIPE, LESS THAN 4 INCH DIAMETER,	UNKNOWN MATERIAL*	PIAZ
#PIPE, UNKNOWN DIAMETER,	CARBON STEEL*	PIZC
#PIPE, UNKNOWN DIAMETER,	LINED/CLAD*	PIZL
#PIPE, UNKNOWN DIAMETER,	OTHER MATERIAL*	PIZX
#PIPE, UNKNOWN DIAMETER,	STAINLESS STEEL*	PIZS
#PIPE, UNKNOWN DIAMETER,	UNKNOWN MATERIAL*	PIZZ
#PIPE, 10 TO 16 INCH DIAMETER,	CARBON STEEL*	PIOC
#PIPE, 10 TO 16 INCH DIAMETER,	LINED/CLAD*	PIOL
#PIPE, 10 TO 16 INCH DIAMETER,	OTHER MATERIAL*	PIOX
#PIPE, 10 TO 16 INCH DIAMETER,	STAINLESS STEEL*	PIOS
#PIPE, 10 TO 16 INCH DIAMETER,	UNKNOWN MATERIAL*	PIOZ
#PIPE, 16 INCH AND LARGER DIAMETER,	CARBON STEEL*	PIEC
#PIPE, 16 INCH AND LARGER DIAMETER,	LINED/CLAD*	PIEL
#PIPE, 16 INCH AND LARGER DIAMETER,	OTHER MATERIAL*	PIEX
#PIPE, 16 INCH AND LARGER DIAMETER,	STAINLESS STEEL*	PIES

APPENDIX C - TABLE 2
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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

# PIPE, 16 INCH AND LARGER DIAMETER, UNKNOWN MATERIAL*	PIE2
# PIPE, 4 TO 6 INCH DIAMETER, CARBON STEEL*	PIB3
# PIPE, 4 TO 6 INCH DIAMETER, LINED/CLAD*	PIB4
# PIPE, 4 TO 6 INCH DIAMETER, OTHER MATERIAL*	PIB5
# PIPE, 4 TO 6 INCH DIAMETER, STAINLESS STEEL*	PIB6
# PIPE, 4 TO 6 INCH DIAMETER, UNKNOWN MATERIAL*	PIB7
# PIPE, 6 TO 12 INCH DIAMETER, CARBON STEEL*	PIC8
# PIPE, 6 TO 12 INCH DIAMETER, LINED/CLAD*	PIC9
# PIPE, 6 TO 12 INCH DIAMETER, OTHER MATERIAL*	PICX
# PIPE, 6 TO 12 INCH DIAMETER, STAINLESS STEEL*	PICS
# PIPE, 6 TO 12 INCH DIAMETER, UNKNOWN MATERIAL*	PICZ
# PENETRATION, PROCESS PIPING*	PNF
# VALVE OPERATOR, PISTON*	VOK
# PIT*	PIT
# ACCESS PLATFORM/ STAIR/ LADDER*	APL
# TYPEWRITER/ PRINTER/ PLOTTER*	TW
# PLUG*	PLG
# VALVE OPERATOR, PNEUMATIC*	VOO
# POOL*	POOL
# ALARM/ ANNUNCIATOR, POSITION*	ZA
# CONTROL, POSITION*	ZC
# INDICATOR, POSITION*	ZI
# PRIMARY ELEMENT, POSITION*	ZE
# RECORDER, POSITION*	ZR
# SWITCH, POSITION*	ZS
# TRANSMITTER, POSITION*	ZT
# TRANSFORMER, VOLTAGE/ VOLTAGE POTENTIAL*	PO
# POTENTIAL DEVICE*	XPVT
# POWER SUPPLY, ELFCI IC*	JX
# POWER SUPPLY, UNINTERRUPTIBLE*	UJX
# ALARM/ ANNUNCIATOR, POWER*	JA
# CONTROL, POWER*	JC
# INDICATOR, POWER*	JI
# RECORDER, POWER*	JR
# SWITCH, POWER*	JS
# TRANSFORMER, CENTRAL POWER*	XCPY
# TRANSFORMER, POWER*	XPWT
# TRANSMITTER, POWER*	JT
# VALVE, PRESSURE REDUCING, CARBON STEEL*	PRVC
# VALVE, PRESSURE REDUCING, OTHER MATERIAL*	PRVX
# VALVE, PRESSURE REDUCING, STAINLESS STEEL*	PRVS
# VALVE, PRESSURE REDUCING, UNKNOWN MATERIAL*	PRVZ
# ALARM/ ANNUNCIATOR, PRESSURE*	PA
# CONTROL, PRESSURE*	PC
# INDICATOR, PRESSURE*	PI
# PRIMARY ELEMENT, PRESSURE*	PE
# RECORDER, PRESSURE*	P
# SWITCH, PRESSURE*	PS
# TRANSMITTER, PRESSURE*	PT
# VALVE, CONTROL, PRESSURE, CARBON STEEL*	PCVC
# VALVE, CONTROL, PRESSURE, OTHER MATERIAL*	PCVX
# VALVE, CONTROL, PRESSURE, STAINLESS STEEL*	PCVS
# VALVE, CONTROL, PRESSURE, UNKNOWN MATERIAL*	PCVZ
# PRESSURIZER*	PZR
# PRESTRESSED CONCRETE/ TENDON AND ANCHORAGE*	PSC
# PRIMARY ELEMENT, ANALYZER*	AE
# PRIMARY ELEMENT, CONDUCTIVITY*	CE
# PRIMARY ELEMENT, CURRENT*	IE
# PRIMARY ELEMENT, FIRE/ SMOKE*	PRE
# PRIMARY ELEMENT, FLOW*	FE
# PRIMARY ELEMENT, FLUX/ NEUTRON*	NE
# PRIMARY ELEMENT, GROUND*	GE
# PRIMARY ELEMENT, INTRUSION*	INE
# PRIMARY ELEMENT, LEVEL*	LE
# PRIMARY ELEMENT, MOISTURE/ HUMIDITY*	ME
# PRIMARY ELEMENT, OTHER/UNKNOWN TYPE*	XE
# PRIMARY ELEMENT, POSITION*	ZE
# PRIMARY ELEMENT, PRESSURE*	PE
# PRIMARY ELEMENT, RADIATION*	RE
# PRIMARY ELEMENT, SPEED/ FREQUENCY*	SE
# PRIMARY ELEMENT, TEMPERATURE*	TE
# PRIMARY ELEMENT, TORQUE/ FORCE*	WE
# PRIMARY ELEMENT, VIBRATION*	VE
# PRIMARY ELEMENT, VOLTAGE*	EE
# TYPEWRITER/ PRINTER/ PLOTTER*	TW
# WELL, SPECIAL PROCESS MONITOR*	XW
# PENETRATION, PROCESS PIPING*	PNF
# FILTER (PROCESS)*	PFLT
# SURGE PROTECTION PACKAGE*	SPD
# PUMP, AXIAL*	PNPA
# PUMP, CENTRIFUGAL*	PNPB
# PUMP, DIAPHRAGM*	PNPC
# PUMP, ELECTROMAGNETIC*	PNPJ
# PUMP, GEAR*	PNPD
# PUMP, JET*	PNPK
# PUMP, OTHER TYPE*	PNPX
# PUMP, RADIAL*	PNPF

APPENDIX C - TABLE 2

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

# PUMP, RECIPROCATING*	PMPE
# PUMP, ROTARY*	PMPG
# PUMP, UNKNOWN TYPE*	PMPT
# PUMP, VANE TYPE*	PMPH
# VALVE, FLUSH/ PURGE, CARBON STEEL*	FLVC
# VALVE, FLUSH/ PURGE, OTHER MATERIAL*	FLVX
# VALVE, FLUSH/ PURGE, STAINLESS STEEL*	FLVS
# VALVE, FLUSH/ PURGE, UNKNOWN MATERIAL*	FLVZ
# PUSH BUTTON*	PR

DRAWINGS/ RECORDS

# RACK/ CABINET*	DWG
# PUMP, RADIAL*	RK
# ALARM/ ANNUNCIATOR, RADIATION*	PMPP
# INDICATOR, RADIATION*	RA
# PRIMARY ELEMENT, RADIATION*	RI
# RECORDER, RADIATION*	RE
# SWITCH, RADIATION*	RR
# TRANSMITTER, RADIATION*	RS
# CATHODE RAY TUBE*	RT
# VESSEL, REACTOR*	CRT
# PUMP, RECIPROCATING*	QDV
# VALVE, RECIRCULATION, CARBON STEEL*	PMPE
# VALVE, RECIRCULATION, OTHER MATERIAL*	RMVC
# VALVE, RECIRCULATION, STAINLESS STEEL*	RMVX
# VALVE, RECIRCULATION, UNKNOWN MATERIAL*	RMVS
# RECOMBINER*	RMVZ
# RECORDER, ANALYZER*	RCB
# RECORDER, CONDUCTIVITY*	AR
# RECORDER, CURRENT*	CR
# RECORDER, FLOW*	IR
# RECORDER, FLUX/ NEUTRON*	FR
# RECORDER, LEVEL*	NR
# RECORDER, MOISTURE/ HUMIDITY*	LR
# RECORDER, MULTI-VARIABLE*	MR
# RECORDER, OTHER TYPE*	MUR
# RECORDER, POSITION*	XR
# RECORDER, POWER*	ZR
# RECORDER, PRESSURE*	JR
# RECORDER, RADIATION*	P
# RECORDER, SPEED/ FREQUENCY*	RR
# RECORDER, TEMPERATURE*	SR
# RECORDER, TORQUE/ FORCE*	TR
# RECORDER, UNKNOWN TYPE*	WR
# RECORDER, VIBRATION*	ZZR
# RECORDER, VOLTAGE*	VR
# RECTIFIER*	ER
# VALVE, PRESSURE REDUCING, CARBON STEEL*	RECT
# VALVE, PRESSURE REDUCING, OTHER MATERIAL*	PRVC
# VALVE, PRESSURE REDUCING, STAINLESS STEEL*	PRVX
# VALVE, PRESSURE REDUCING, UNKNOWN MATERIAL*	PRVS
# TRANSFORMER, VOLTAGE REGULATOR/ CURRENT*	PRVZ
# RELAY, ALARM/ ANNUNCIATOR*	XVCT
# RELAY, DIRECTIONAL/ BALANCE*	ARLY
# RELAY, FIELD/ EXCITER*	ORLY
# RELAY, FREQUENCY*	FRLY
# RELAY, LOCKOUT/ TRIPPING*	BI
# RELAY, OTHER/UNKNOWN TYPE*	LOR
# RELAY, OVERCURRENT*	RLY
# RELAY, OVERSPEED*	OCR
# RELAY, OVERVOLTAGE*	12
# RELAY, PHASE*	59
# RELAY, PILOT WIRE*	ORLY
# RELAY, SYNCHRONIZATION*	SS
# RELAY, THERMAL OVERLOAD*	SYNR
# RELAY, TIME DELAY*	49
# RELAY, UNDERCURRENT/ UNDERPOWER*	TOR
# RELAY, UNDERSPEED (DEVICE)*	37
# RELAY, UNDERVOLTAGE*	14
# VALVE, RELIEF w/OPERATOR, CARBON STEEL*	27
# VALVE, RELIEF w/OPERATOR, OTHER MATERIAL*	ORVC
# VALVE, RELIEF w/OPERATOR, STAINLESS STEEL*	ORVX
# VALVE, RELIEF w/OPERATOR, UNKNOWN MATERIAL*	ORVS
# VALVE, RELIEF, SELF-ACTING, CARBON STEEL*	ORVZ
# VALVE, RELIEF, SELF-ACTING, OTHER MATERIAL*	RVC
# VALVE, RELIEF, SELF-ACTING, STAINLESS STEEL*	RVX
# VALVE, RELIEF, SELF-ACTING, UNKNOWN MATERIAL*	RVS
# CONTRL UNIT, REMOTE*	RVZ
# RESERVOIR*	RCU
# RESISTOR*	RVR
# CONTRL ROD ASSEMBLY*	RSSR
# CONTRL ROD DRIVE*	CRA
# CONTRL ROD*	CRD
# VALVE, ROOT, CARBON STEEL*	CRE
# VALVE, ROOT, OTHER MATERIAL*	RTVC
	RTVX

APPENDIX C - TABLE 2

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

#VALVE, ROOT, STAINLESS STEEL*	RTVS
#VALVE, ROOT, UNKNOWN MATERIAL*	RTVZ
#PUMP, ROTARY*	RMPG
# RUPTURE DISC*	RPO
# SAMPLE*	SAM
#STATION, SAMPLE*	SSTN
#VALVE, SAMPLE, CARBON STEEL*	SMVC
#VALVE, SAMPLE, OTHER MATERIAL*	SMVX
#VALVE, SAMPLE, STAINLESS STEEL*	SMVS
#VALVE, SAMPLE, UNKNOWN MATERIAL*	SMVZ
# SCREEN*	SCN
# SEAL*	SEAL
#VALVE SEAT*	VLVS
#VALVE, RELIEF, SELF-ACTING, CARBON STEEL*	RVC
#VALVE, RELIEF, SELF-ACTING, OTHER MATERIAL*	RVX
#VALVE, RELIEF, SELF-ACTING, STAINLESS STEEL*	RVS
#VALVE, RELIEF, SELF-ACTING, UNKNOWN MATERIAL*	RVZ
# SENSING LINE*	SL
# SEPARATOR*	SEP
# SEQUENCER*	SEQ
#VALVE OPERATOR, ELECTRIC/ SERVO*	VOB
# SHAFT/ STEM*	SHFT
#CONCRETE STRUCTURE/ SHIELD*	CSTR
#VALVE, ISOLATION/ SHUTOFF, CARBON STEEL*	ISVC
#VALVE, ISOLATION/ SHUTOFF, OTHER MATERIAL*	ISVX
#VALVE, ISOLATION/ SHUTOFF, STAINLESS STEEL*	ISVS
#VALVE, ISOLATION/ SHUTOFF, UNKNOWN MATERIAL*	ISVZ
# SLEEVE*	SLV
#ALARM/ ANNUNCIATOR, FIRE/ SMOKE*	FRA
#PRIMARY ELEMENT, FIRE/ SMOKE*	FRE
# SHUBBER*	SNR
# SOLENOID*	SOL
#VALVE OPERATOR, SOLENOID*	VOE
#WELL, SPECIAL PROCESS MONITOR*	XW
#ALARM/ ANNUNCIATOR, SPEED/ FREQUENCY*	SA
#CONTROL, SPEED/ FREQUENCY*	SC
#INDICATOR, SPEED/ FREQUENCY*	SI
#PRIMARY ELEMENT, SPEED/ FREQUENCY*	SE
#RECORDER, SPEED/ FREQUENCY*	SR
#SWITCH, SPEED/ FREQUENCY*	SS
#TRANSMITTER, SPEED/ FREQUENCY*	ST
#VALVE, CONTROL, SPEED/ FREQUENCY, CARBON STEEL*	SCVC
#VALVE, CONTROL, SPEED/ FREQUENCY, OTHER MATERIAL*	SCVX
#VALVE, CONTROL, SPEED/ FREQUENCY, STAINLESS STEEL*	SCVS
#VALVE, CONTROL, SPEED/ FREQUENCY, UNKNOWN MATERIAL*	SCVZ
#VALVE OPERATOR, EXPLOSIVE/ SQUIB*	VOG
#PIPE, LESS THAN 4 INCH DIAMETER, STAINLESS STEEL*	PIAS
#PIPE, UNKNOWN DIAMETER, STAINLESS STEEL*	PIZS
#PIPE, 10 TO 16 INCH DIAMETER, STAINLESS STEEL*	PIOS
#PIPE, 16 INCH AND LARGER DIAMETER, STAINLESS STEEL*	PIES
#PIPE, 4 TO 6 INCH DIAMETER, STAINLESS STEEL*	PIBS
#PIPE, 6 TO 10 INCH DIAMETER, STAINLESS STEEL*	PICS
#VALVE, BALANCING, STAINLESS STEEL*	BAVS
#VALVE, BLOWOFF, STAINLESS STEEL*	BOVS
#VALVE, BYPASS, STAINLESS STEEL*	BYVS
#VALVE, CHECK, STAINLESS STEEL*	CVS
#VALVE, CONTROL, ANALYZER, STAINLESS STEEL*	ACVS
#VALVE, CONTROL, CONDUCTIVITY, STAINLESS STEEL*	CCVS
#VALVE, CONTROL, FLOW, STAINLESS STEEL*	FCVS
#VALVE, CONTROL, LEVEL, STAINLESS STEEL*	LCVS
#VALVE, CONTROL, OTHER TYPE, STAINLESS STEEL*	XCVS
#VALVE, CONTROL, PRESSURE, STAINLESS STEEL*	PCVS
#VALVE, CONTROL, SPEED/ FREQUENCY, STAINLESS STEEL*	SCVS
#VALVE, CONTROL, TEMPERATURE, STAINLESS STEEL*	TCVS
#VALVE, DRAIN, STAINLESS STEEL*	ORVS
#VALVE, FLUSH/ PURGE, STAINLESS STEEL*	PLVS
#VALVE, INJECTION, STAINLESS STEEL*	INVS
#VALVE, ISOLATION/ SHUTOFF, STAINLESS STEEL*	ISVS
#VALVE, LEAKOFF, STAINLESS STEEL*	LOVS
#VALVE, OTHER TYPE, STAINLESS STEEL*	XVS
#VALVE, PRESSURE REDUCING, STAINLESS STEEL*	PRVS
#VALVE, RECIRCULATION, STAINLESS STEEL*	RMVS
#VALVE, RELIEF, SELF-ACTING, STAINLESS STEEL*	RVS
#VALVE, RELIEF W/OPERATOR, STAINLESS STEEL*	ORVS
#VALVE, ROOT, STAINLESS STEEL*	RTVS
#VALVE, SAMPLE, STAINLESS STEEL*	SMVS
#VALVE, TELLTALE, STAINLESS STEEL*	TTVS
#VALVE, TEST, STAINLESS STEEL*	TVS
#VALVE, UNKNOWN TYPE, STAINLESS STEEL*	ZVS
#VALVE, VENT, STAINLESS STEEL*	VTVS
#ACCESS PLATFORM/ STAIR/ LADDER*	APL
#MOTOR STARTER*	MSTR
#CONTROL STATION*	CNST

PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

# PIPE, LESS THAN 4 INCH DIAMETER, CARBON	STEEL*	SSTN
# PIPE, LESS THAN 4 INCH DIAMETER, STAINLESS	STEEL*	SG
# PIPE, UNKNOWN DIAMETER, CARBON	STEEL*	PIAC
# PIPE, UNKNOWN DIAMETER, STAINLESS	STEEL*	PIAS
# PIPE, 10 TO 16 INCH DIAMETER, CARBON	STEEL*	PIZC
# PIPE, 10 TO 16 INCH DIAMETER, STAINLESS	STEEL*	PIZS
# PIPE, 16 INCH AND LARGER DIAMETER, CARBON	STEEL*	PIDC
# PIPE, 16 INCH AND LARGER DIAMETER, STAINLESS	STEEL*	PIDS
# PIPE, 4 TO 6 INCH DIAMETER, CARBON	STEEL*	PIEC
# PIPE, 4 TO 6 INCH DIAMETER, STAINLESS	STEEL*	PIES
# PIPE, 6 TO 10 INCH DIAMETER, CARBON	STEEL*	PIBC
# PIPE, 6 TO 10 INCH DIAMETER, STAINLESS	STEEL*	PIBS
# VALVE, BALANCING, CARBON	STEEL*	PICC
# VALVE, BALANCING, STAINLESS	STEEL*	PICS
# VALVE, BLOWOFF, CARBON	STEEL*	BAVC
# VALVE, BLOWOFF, STAINLESS	STEEL*	BAVS
# VALVE, BYPASS, CARBON	STEEL*	BOVC
# VALVE, BYPASS, STAINLESS	STEEL*	BOVS
# VALVE, CHECK, CARBON	STEEL*	BYVC
# VALVE, CHECK, STAINLESS	STEEL*	BYVS
# VALVE, CONTROL, ANALYZER, CARBON	STEEL*	CVC
# VALVE, CONTROL, ANALYZER, STAINLESS	STEEL*	CVS
# VALVE, CONTROL, CONDUCTIVITY, CARBON	STEEL*	ACVC
# VALVE, CONTROL, CONDUCTIVITY, STAINLESS	STEEL*	ACVS
# VALVE, CONTROL, FLOW, CARBON	STEEL*	CCVC
# VALVE, CONTROL, FLOW, STAINLESS	STEEL*	CCVS
# VALVE, CONTROL, LEVEL, CARBON	STEEL*	FCVC
# VALVE, CONTROL, LEVEL, STAINLESS	STEEL*	FCVS
# VALVE, CONTROL, OTHER TYPE, CARBON	STEEL*	LCVC
# VALVE, CONTROL, OTHER TYPE, STAINLESS	STEEL*	LCVS
# VALVE, CONTROL, PRESSURE, CARBON	STEEL*	XCVC
# VALVE, CONTROL, PRESSURE, STAINLESS	STEEL*	XCVS
# VALVE, CONTROL, SPEED/ FREQUENCY, CARBON	STEEL*	PCVC
# VALVE, CONTROL, SPEED/ FREQUENCY, STAINLESS	STEEL*	PCVS
# VALVE, CONTROL, TEMPERATURE, CARBON	STEEL*	SCVC
# VALVE, CONTROL, TEMPERATURE, STAINLESS	STEEL*	SCVS
# VALVE, DRAIN, CARBON	STEEL*	TCVC
# VALVE, DRAIN, STAINLESS	STEEL*	TCVS
# VALVE, FLUSH/ PURGE, CARBON	STEEL*	DRVC
# VALVE, FLUSH/ PURGE, STAINLESS	STEEL*	DRVS
# VALVE, INJECTION, CARBON	STEEL*	FLVC
# VALVE, INJECTION, STAINLESS	STEEL*	FLVS
# VALVE, ISOLATION/ SHUTOFF, CARBON	STEEL*	INVC
# VALVE, ISOLATION/ SHUTOFF, STAINLESS	STEEL*	INVS
# VALVE, LEAKOFF, CARBON	STEEL*	ISVC
# VALVE, LEAKOFF, STAINLESS	STEEL*	ISVS
# VALVE, OTHER TYPE, CARBON	STEEL*	LOVC
# VALVE, OTHER TYPE, STAINLESS	STEEL*	LOVS
# VALVE, PRESSURE REDUCING, CARBON	STEEL*	XVC
# VALVE, PRESSURE REDUCING, STAINLESS	STEEL*	XVS
# VALVE, RECIRCULATION, CARBON	STEEL*	PRVC
# VALVE, RECIRCULATION, STAINLESS	STEEL*	PRVS
# VALVE, RELIEF, SELF-ACTING, CARBON	STEEL*	RHVC
# VALVE, RELIEF, SELF-ACTING, STAINLESS	STEEL*	RHVS
# VALVE, RELIEF W/OPERATOR, CARBON	STEEL*	RVC
# VALVE, RELIEF W/OPERATOR, STAINLESS	STEEL*	RVS
# VALVE, ROOT, CARBON	STEEL*	ORVC
# VALVE, ROOT, STAINLESS	STEEL*	ORVS
# VALVE, SAMPLE, CARBON	STEEL*	RTVC
# VALVE, SAMPLE, STAINLESS	STEEL*	RTVS
# VALVE, TELLTALE, CARBON	STEEL*	SHVC
# VALVE, TELLTALE, STAINLESS	STEEL*	SHVS
# VALVE, TEST, CARBON	STEEL*	TIVC
# VALVE, TEST, STAINLESS	STEEL*	TTVS
# VALVE, UNKNOWN TYPE, CARBON	STEEL*	TVC
# VALVE, UNKNOWN TYPE, STAINLESS	STEEL*	TVS
# VALVE, VENT, CARBON	STEEL*	ZVC
# VALVE, VENT, STAINLESS	STEEL*	ZVS
# SHAFT/	STEM*	VTVC
		VTVS
		SHFT
	# STRAINER*	STNR
# MISCELLANEOUS	STRUCTURAL FEATURES*	NSP
	STRUCTURAL FRAMING AND FOUNDATION*	SPR
# CONCRETE	STRUCTURE/ SHIELD*	CSTR
# MISCELLANEOUS	SUBCOMPONENT*	NSC
	SUNNER*	SUN
	SURP*	SNP
# POWER	SUPPLY, ELECTRIC*	JX
# POWER	SUPPLY, UNINTERRUPTIBLE*	UJX
	SUPPORT*	SPT
	SURGE PROTECTION PACKAGE*	SPD
	SWITCH, ANALYZER*	AS
	SWITCH, CONDUCTIVITY*	CS
	SWITCH, CONTROL*	CSW
	SWITCH, CURRENT*	IS
	SWITCH, DISCONNECT*	DSW

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

# SWITCH, FLOW*	FS
# SWITCH, FLUX/ NEUTRON*	NS
# SWITCH, HAND*	HS
# SWITCH, LEVEL*	LS
# SWITCH, MOISTURE/ HUMIDITY*	MS
# SWITCH, MULTI-VARIABLE*	MUS
# SWITCH, OTHER TYPE*	XS
# SWITCH, POSITION*	ZS
# SWITCH, POWER*	JS
# SWITCH, PRESSURE*	PS
# SWITCH, RADIATION*	RS
# SWITCH, SPEED/ FREQUENCY*	SS
# SWITCH, TEMPERATURE*	TS
# SWITCH, TEST*	TSW
# SWITCH, TIME*	KS
# SWITCH, TORQUE/ FORCE*	WS
# SWITCH, UNKNOWN TYPE*	ZZS
# SWITCH, VIBRATION*	VS
# SWITCH, VOLTAGE*	ES
#RELAY, SYNCHRONIZATION*	SYNR
# SYNCHROSCOPE*	SYN
#ENTIRE SYSTEM*	XXX
# TANK*	TK
# TELEMETER*	TLM
#VALVE, TELLTALE, CARBON STEEL*	TTVC
#VALVE, TELLTALE, OTHER MATERIAL*	TTVX
#VALVE, TELLTALE, STAINLESS STEEL*	TTVS
#VALVE, TELLTALE, UNKNOWN MATERIAL*	TTVZ
#ALARM/ ANNUNCIATOR, TEMPERATURE*	TA
#CONTROL, TEMPERATURE*	TC
#INDICATOR, TEMPERATURE*	TI
#PRIMARY ELEMENT, TEMPERATURE*	TE
#RECORDER, TEMPERATURE*	TR
#SWITCH, TEMPERATURE*	TS
#TRANSMITTER, TEMPERATURE*	TT
#VALVE, CONTROL, TEMPERATURE, CARBON STEEL*	TCVC
#VALVE, CONTROL, TEMPERATURE, OTHER MATERIAL*	TCVX
#VALVE, CONTROL, TEMPERATURE, STAINLESS STEEL*	TCVS
#VALVE, CONTROL, TEMPERATURE, UNKNOWN MATERIAL*	TCVZ
#PRESTRESSED CONCRETE/ TENDON AND ANCHORAGE*	PSC
# TERMINAL BLOCK*	TB
#SWITCH, TEST*	TSW
#VALVE, TEST, CARBON STEEL*	TVC
#VALVE, TEST, OTHER MATERIAL*	TVX
#VALVE, TEST, STAINLESS STEEL*	TVS
#VALVE, TEST, UNKNOWN MATERIAL*	TVZ
#PIPE, LESS THAN 4 INCH DIAMETER, CARBON STEEL*	PIAC
#PIPE, LESS THAN 4 INCH DIAMETER, LINED/CLAD*	PIAL
#PIPE, LESS THAN 4 INCH DIAMETER, OTHER MATERIAL*	PIAX
#PIPE, LESS THAN 4 INCH DIAMETER, STAINLESS STEEL*	PIAS
#PIPE, LESS THAN 4 INCH DIAMETER, UNKNOWN MATERIAL*	PIAZ
#RELAY, THERMAL OVERLOAD*	49
#RELAY, TIME DELAY*	TDR
#INDICATOR, TIME*	KI
#SWITCH, TIME*	KS
#TRANSMITTER, TIME*	KT
#CONTROL, TORQUE/ FORCE*	WC
#INDICATOR, TORQUE/ FORCE*	WI
#PRIMARY ELEMENT, TORQUE/ FORCE*	WE
#RECORDER, TORQUE/ FORCE*	WR
#SWITCH, TORQUE/ FORCE*	WS
#TRANSMITTER, TORQUE/ FORCE*	WT
# TOTALIZER/ INTEGRATOR*	TOT
#COOLING TOWER*	CTW
#HEAT TRACING*	HTTR
# TRANSOUCCER*	TO
# TRANSFORMER, CENTRAL POWER*	XCPT
# TRANSFORMER, CURRENT*	XCT
# TRANSFORMER, EXCITATION*	XET
# TRANSFORMER, ISOLATION*	XIT
# TRANSFORMER, LIGHTING*	XLT
# TRANSFORMER, OTHER TYPE*	XPFR
# TRANSFORMER, POWER*	XPWT
# TRANSFORMER, UNKNOWN TYPE*	XTZ
# TRANSFORMER, VOLTAGE REGULATOR/ CURRENT*	XVCT
# TRANSFORMER, VOLTAGE/ VOLTAGE POTENTIAL*	XVPT
# TRANSMISSION LINE*	TLIN
# TRANSMITTER, ANALYZER*	AT
# TRANSMITTER, CONDUCTIVITY*	CT
# TRANSMITTER, CURRENT*	IT
# TRANSMITTER, FLOW*	FT
# TRANSMITTER, FLUX/ NEUTRON*	NT
# TRANSMITTER, LEVEL*	LT

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

# TRANSMITTER, MOISTURE/ HUMIDITY*	MT
# TRANSMITTER, MULTI-VARIABLE*	MUT
# TRANSMITTER, OTHER TYPE*	XT
# TRANSMITTER, POSITION*	ZT
# TRANSMITTER, POWER*	JT
# TRANSMITTER, PRESSURE*	PT
# TRANSMITTER, RADIATION*	RT
# TRANSMITTER, SPEED/ FREQUENCY*	ST
# TRANSMITTER, TEMPERATURE*	TT
# TRANSMITTER, TIME*	KT
# TRANSMITTER, TORQUE/ FORCE*	WT
# TRANSMITTER, UNKNOWN TYPE*	ZZT
# TRANSMITTER, VIBRATION*	VT
# TRANSMITTER, VOLTAGE*	ET
# TRAY, CABLE*	TY
#RELAY, LOCKOUT/ TRIPPING*	LOR
#CATHODE RAY TUBE*	CRT
# TUBING*	TBG
# TURBINE*	TBB
# TURBOCHARGER*	TCHG
#ALARM/ ANNUNCIATOR, OTHER TYPE*	XA
#BOX, OTHER TYPE*	BX
#CONTROL, OTHER TYPE*	XC
#ENGINE, OTHER TYPE*	ENG
#HEATER, OTHER TYPE*	HTR
#INDICATOR, OTHER TYPE*	XI
#PENETRATION, OTHER/UNKNOWN TYPE*	PEN
#PRIMARY ELEMENT, OTHER/UNKNOWN TYPE*	XE
#PUMP, OTHER TYPE*	PMPX
#PUMP, UNKNOWN TYPE*	PMPZ
#PUMP, VANE TYPE*	PMPH
#RECORDER, OTHER TYPE*	XR
#RECORDER, UNKNOWN TYPE*	ZZR
#RELAY, OTHER/UNKNOWN TYPE*	RLY
#SWITCH, OTHER TYPE*	X5
#SWITCH, UNKNOWN TYPE*	ZZ5
#TRANSFORMER, OTHER TYPE*	XFNR
#TRANSFORMER, UNKNOWN TYPE*	XTZ
#TRANSMITTER, OTHER TYPE*	XT
#TRANSMITTER, UNKNOWN TYPE*	ZZT
#VALVE OPERATOR, OTHER TYPE*	VOX
#VALVE OPERATOR, UNKNOWN TYPE*	VOZ
#VALVE, CONTROL, OTHER TYPE, CARBON STEEL*	XCVC
#VALVE, OTHER TYPE, CARBON STEEL*	XVC
#VALVE, UNKNOWN TYPE, CARBON STEEL*	ZVC
#VALVE, CONTROL, OTHER TYPE, OTHER MATERIAL*	XC VX
#VALVE, OTHER TYPE, OTHER MATERIAL*	XVX
#VALVE, UNKNOWN TYPE, OTHER MATERIAL*	ZVX
#VALVE, CONTROL, OTHER TYPE, STAINLESS STEEL*	XCVS
#VALVE, OTHER TYPE, STAINLESS STEEL*	XVS
#VALVE, UNKNOWN TYPE, STAINLESS STEEL*	ZVS
#VALVE, CONTROL, OTHER TYPE, UNKNOWN MATERIAL*	XC VZ
#VALVE, OTHER TYPE, UNKNOWN MATERIAL*	XVZ
#VALVE, UNKNOWN TYPE, UNKNOWN MATERIAL*	ZVZ
# TYPEWRITER/ PRINTER/ PLOTTER*	YW
#RELAY, UNDERCURRENT/ UNDERPOWER*	37
#RELAY, UNDERCURRENT/ UNDERPOWER*	37
#RELAY, UNDERSPEED (DEVICE)*	14
#RELAY, UNDERVOLTAGE*	27
#POWER SUPPLY, UNINTERRUPTIBLE*	UJX
#AIR HANDLING/CONDITIONING UNIT (HEATING AND VENTILATION)*	AHU
#FAN COOLER UNIT*	FCU
#CONTROL UNIT, REMOTE*	RCU
# UNKNOWN COMPONENT*	ZZZ
#PIPE, UNKNOWN DIAMETER, CARBON STEEL*	PIZC
#PIPE, UNKNOWN DIAMETER, LINED/CLAD*	PIZL
#PIPE, UNKNOWN DIAMETER, OTHER MATERIAL*	PIZX
#PIPE, UNKNOWN DIAMETER, STAINLESS STEEL*	PIZS
#PIPE, UNKNOWN DIAMETER, UNKNOWN MATERIAL*	PIZZ
#PIPE, LESS THAN 4 INCH DIAMETER, UNKNOWN MATERIAL*	PI4Z
#PIPE, UNKNOWN DIAMETER, UNKNOWN MATERIAL*	PIZZ
#PIPE, 10 TO 16 INCH DIAMETER, UNKNOWN MATERIAL*	PI0Z
#PIPE, 16 INCH AND LARGER DIAMETER, UNKNOWN MATERIAL*	PIEZ
#PIPE, 4 TO 6 INCH DIAMETER, UNKNOWN MATERIAL*	PIBZ
#PIPE, 6 TO 10 INCH DIAMETER, UNKNOWN MATERIAL*	PICZ
#VALVE, BALANCING, UNKNOWN MATERIAL*	BAVZ
#VALVE, BLOWOFF, UNKNOWN MATERIAL*	BOVZ
#VALVE, BYPASS, UNKNOWN MATERIAL*	BYVZ
#VALVE, CHECK, UNKNOWN MATERIAL*	CVZ
#VALVE, CONTROL, ANALYZER, UNKNOWN MATERIAL*	ACVZ
#VALVE, CONTROL, CONDUCTIVITY, UNKNOWN MATERIAL*	CCVZ
#VALVE, CONTROL, FLOW, UNKNOWN MATERIAL*	FCVZ
#VALVE, CONTROL, LEVEL, UNKNOWN MATERIAL*	LCVZ

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TABLE 2.4 PERMITTED LISTING OF COMPONENT CODE DESCRIPTIONS

#VALVE, CONTROL, OTHER TYPE,	UNKNOWN MATERIAL*	KCVZ
#VALVE, CONTROL, PRESSURE,	UNKNOWN MATERIAL*	PCVZ
#VALVE, CONTROL, SPEED/ FREQUENCY,	UNKNOWN MATERIAL*	SCVZ
#VALVE, CONTROL, TEMPERATURE,	UNKNOWN MATERIAL*	TCVZ
#VALVE, DRAIN,	UNKNOWN MATERIAL*	DRVZ
#VALVE, FLUSH/ PURGE,	UNKNOWN MATERIAL*	FLVZ
#VALVE, INJECTION,	UNKNOWN MATERIAL*	INVZ
#VALVE, ISOLATION/ SHUTOFF,	UNKNOWN MATERIAL*	ISVZ
#VALVE, LEAKOFF,	UNKNOWN MATERIAL*	LCVZ
#VALVE, OTHER TYPE,	UNKNOWN MATERIAL*	XVZ
#VALVE, PRESSURE REDUCING,	UNKNOWN MATERIAL*	PRVZ
#VALVE, RECIRCULATION,	UNKNOWN MATERIAL*	RMVZ
#VALVE, RELIEF, SELF-ACTING,	UNKNOWN MATERIAL*	RVZ
#VALVE, RELIEF W/OPERATOR,	UNKNOWN MATERIAL*	ORVZ
#VALVE, ROOT,	UNKNOWN MATERIAL*	RTVZ
#VALVE, SAMPLE,	UNKNOWN MATERIAL*	SMVZ
#VALVE, TELLTALE,	UNKNOWN MATERIAL*	TTVZ
#VALVE, TEST,	UNKNOWN MATERIAL*	TVZ
#VALVE, UNKNOWN TYPE,	UNKNOWN MATERIAL*	ZVZ
#VALVE, VENT,	UNKNOWN MATERIAL*	VTVZ
# UNKNOWN PERSONNEL*		PZ
#PUMP, UNKNOWN TYPE*		PPMZ
#RECCROER, UNKNOWN TYPE*		ZZR
#SWITCH, UNKNOWN TYPE*		ZZS
#TRANSFORMER, UNKNOWN TYPE*		XTZ
#TRANSMITTER, UNKNOWN TYPE*		ZZT
#VALVE OPERATOR, UNKNOWN TYPE*		VOZ
#VALVE, UNKNOWN TYPE, CARBON STEEL*		ZVC
#VALVE, UNKNOWN TYPE, OTHER MATERIAL*		ZVX
#VALVE, UNKNOWN TYPE, STAINLESS STEEL*		ZVS
#VALVE, UNKNOWN TYPE, UNKNOWN MATERIAL*		ZVZ
#OTHER/ UNKNOWN UTILITY PERSONNEL*		PUX
		PUX
#BREAKER, VACUUM*		VACB
# VALVE OPERATOR, BALANCE*		VOL
# VALVE OPERATOR, BALL*		VOM
# VALVE OPERATOR, ELECTRIC/ SERVO*		VOB
# VALVE OPERATOR, EXPLOSIVE/ SQUIB*		VOG
# VALVE OPERATOR, FLOAT*		VOF
# VALVE OPERATOR, HYDRAULIC*		VOC
# VALVE OPERATOR, MANUAL*		VQA
# VALVE OPERATOR, MECHANICAL*		VOH
# VALVE OPERATOR, OTHER TYPE*		VOX
# VALVE OPERATOR, PISTON*		VOK
# VALVE OPERATOR, PNEUMATIC*		VOD
# VALVE OPERATOR, SOLENOID*		VOE
# VALVE OPERATOR, UNKNOWN TYPE*		VOZ
# VALVE SEAT*		VLVS
# VALVE, BALANCING, CARBON STEEL*		BAVC
# VALVE, BALANCING, OTHER MATERIAL*		BAVX
# VALVE, BALANCING, STAINLESS STEEL*		BAVS
# VALVE, BALANCING, UNKNOWN MATERIAL*		BAVZ
# VALVE, BLOWOFF, CARBON STEEL*		BOVC
# VALVE, BLOWOFF, OTHER MATERIAL*		BOVX
# VALVE, BLOWOFF, STAINLESS STEEL*		BOVS
# VALVE, BLOWOFF, UNKNOWN MATERIAL*		BOVZ
# VALVE, BYPASS, CARBON STEEL*		BYVC
# VALVE, BYPASS, OTHER MATERIAL*		BYVX
# VALVE, BYPASS, STAINLESS STEEL*		BYVS
# VALVE, BYPASS, UNKNOWN MATERIAL*		BYVZ
# VALVE, CHECK, CARBON STEEL*		CVC
# VALVE, CHECK, OTHER MATERIAL*		CVX
# VALVE, CHECK, STAINLESS STEEL*		CVS
# VALVE, CHECK, UNKNOWN MATERIAL*		CVZ
# VALVE, CONTROL, ANALYZER, CARBON STEEL*		ACVC
# VALVE, CONTROL, ANALYZER, OTHER MATERIAL*		ACVX
# VALVE, CONTROL, ANALYZER, STAINLESS STEEL*		ACVS
# VALVE, CONTROL, ANALYZER, UNKNOWN MATERIAL*		ACVZ
# VALVE, CONTROL, CONDUCTIVITY, CARBON STEEL*		CCVC
# VALVE, CONTROL, CONDUCTIVITY, OTHER MATERIAL*		CCVX
# VALVE, CONTROL, CONDUCTIVITY, STAINLESS STEEL*		CCVS
# VALVE, CONTROL, CONDUCTIVITY, UNKNOWN MATERIAL*		CCVZ
# VALVE, CONTROL, FLOW, CARBON STEEL*		FCVC
# VALVE, CONTROL, FLOW, OTHER MATERIAL*		FCVX
# VALVE, CONTROL, FLOW, STAINLESS STEEL*		FCVS
# VALVE, CONTROL, FLOW, UNKNOWN MATERIAL*		FCVZ
# VALVE, CONTROL, LEVEL, CARBON STEEL*		LCVC
# VALVE, CONTROL, LEVEL, OTHER MATERIAL*		LCVX
# VALVE, CONTROL, LEVEL, STAINLESS STEEL*		LCVS
# VALVE, CONTROL, LEVEL, UNKNOWN MATERIAL*		LCVZ
# VALVE, CONTROL, OTHER TYPE, CARBON STEEL*		KCVC
# VALVE, CONTROL, OTHER TYPE, OTHER MATERIAL*		KCVX
# VALVE, CONTROL, OTHER TYPE, STAINLESS STEEL*		KCVZ

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REBUILT LISTING OF COMPONENT CODE DESCRIPTIONS

# VALVE, CONTROL, OTHER TYPE, UNKNOWN MATERIAL*	XCVZ
# VALVE, CONTROL, PRESSURE, CARBON STEEL*	PCVC
# VALVE, CONTROL, PRESSURE, OTHER MATERIAL*	PCVX
# VALVE, CONTROL, PRESSURE, STAINLESS STEEL*	PCVS
# VALVE, CONTROL, PRESSURE, UNKNOWN MATERIAL*	PCVZ
# VALVE, CONTROL, SPEED/ FREQUENCY, CARBON STEEL*	SCVC
# VALVE, CONTROL, SPEED/ FREQUENCY, OTHER MATERIAL*	SCVX
# VALVE, CONTROL, SPEED/ FREQUENCY, STAINLESS STEEL*	SCVS
# VALVE, CONTROL, SPEED/ FREQUENCY, UNKNOWN MATERIAL*	SCVZ
# VALVE, CONTROL, TEMPERATURE, CARBON STEEL*	TCVC
# VALVE, CONTROL, TEMPERATURE, OTHER MATERIAL*	TCVX
# VALVE, CONTROL, TEMPERATURE, STAINLESS STEEL*	TCVS
# VALVE, CONTROL, TEMPERATURE, UNKNOWN MATERIAL*	TCVZ
# VALVE, DRAIN, CARBON STEEL*	DRVC
# VALVE, DRAIN, OTHER MATERIAL*	DRVX
# VALVE, DRAIN, STAINLESS STEEL*	DRVS
# VALVE, DRAIN, UNKNOWN MATERIAL*	DRVZ
# VALVE, FLUSH/ PURGE, CARBON STEEL*	FLVC
# VALVE, FLUSH/ PURGE, OTHER MATERIAL*	FLVX
# VALVE, FLUSH/ PURGE, STAINLESS STEEL*	FLVS
# VALVE, FLUSH/ PURGE, UNKNOWN MATERIAL*	FLVZ
# VALVE, INJECTION, CARBON STEEL*	INVC
# VALVE, INJECTION, OTHER MATERIAL*	INVX
# VALVE, INJECTION, STAINLESS STEEL*	INVS
# VALVE, INJECTION, UNKNOWN MATERIAL*	INVZ
# VALVE, ISOLATION/ SHUTOFF, CARBON STEEL*	ISVC
# VALVE, ISOLATION/ SHUTOFF, OTHER MATERIAL*	ISVX
# VALVE, ISOLATION/ SHUTOFF, STAINLESS STEEL*	ISVS
# VALVE, ISOLATION/ SHUTOFF, UNKNOWN MATERIAL*	ISVZ
# VALVE, LEAKOFF, CARBON STEEL*	LOVC
# VALVE, LEAKOFF, OTHER MATERIAL*	LOVX
# VALVE, LEAKOFF, STAINLESS STEEL*	LOVS
# VALVE, LEAKOFF, UNKNOWN MATERIAL*	LOVZ
# VALVE, OTHER TYPE, CARBON STEEL*	XVC
# VALVE, OTHER TYPE, OTHER MATERIAL*	XVX
# VALVE, OTHER TYPE, STAINLESS STEEL*	XVS
# VALVE, OTHER TYPE, UNKNOWN MATERIAL*	XVZ
# VALVE, PRESSURE REDUCING, CARBON STEEL*	PRVC
# VALVE, PRESSURE REDUCING, OTHER MATERIAL*	PRVX
# VALVE, PRESSURE REDUCING, STAINLESS STEEL*	PRVS
# VALVE, PRESSURE REDUCING, UNKNOWN MATERIAL*	PRVZ
# VALVE, RECIRCULATION, CARBON STEEL*	RHVC
# VALVE, RECIRCULATION, OTHER MATERIAL*	RHVX
# VALVE, RECIRCULATION, STAINLESS STEEL*	RHVS
# VALVE, RECIRCULATION, UNKNOWN MATERIAL*	RHVZ
# VALVE, RELIEF W/OPERATOR, CARBON STEEL*	ORVC
# VALVE, RELIEF W/OPERATOR, OTHER MATERIAL*	ORVX
# VALVE, RELIEF W/OPERATOR, STAINLESS STEEL*	ORVS
# VALVE, RELIEF W/OPERATOR, UNKNOWN MATERIAL*	ORVZ
# VALVE, RELIEF, SELF-ACTING, CARBON STEEL*	RVC
# VALVE, RELIEF, SELF-ACTING, OTHER MATERIAL*	RVX
# VALVE, RELIEF, SELF-ACTING, STAINLESS STEEL*	RVS
# VALVE, RELIEF, SELF-ACTING, UNKNOWN MATERIAL*	RVZ
# VALVE, ROOT, CARBON STEEL*	RTVC
# VALVE, ROOT, OTHER MATERIAL*	RTVX
# VALVE, ROOT, STAINLESS STEEL*	RTVS
# VALVE, ROOT, UNKNOWN MATERIAL*	RTVZ
# VALVE, SAMPLE, CARBON STEEL*	SMVC
# VALVE, SAMPLE, OTHER MATERIAL*	SMVX
# VALVE, SAMPLE, STAINLESS STEEL*	SMVS
# VALVE, SAMPLE, UNKNOWN MATERIAL*	SMVZ
# VALVE, TELLTALE, CARBON STEEL*	TTVC
# VALVE, TELLTALE, OTHER MATERIAL*	TTVX
# VALVE, TELLTALE, STAINLESS STEEL*	TTVS
# VALVE, TELLTALE, UNKNOWN MATERIAL*	TTVZ
# VALVE, TEST, CARBON STEEL*	TVC
# VALVE, TEST, OTHER MATERIAL*	TVX
# VALVE, TEST, STAINLESS STEEL*	TVS
# VALVE, TEST, UNKNOWN MATERIAL*	TVZ
# VALVE, UNKNOWN TYPE, CARBON STEEL*	ZVC
# VALVE, UNKNOWN TYPE, OTHER MATERIAL*	ZVX
# VALVE, UNKNOWN TYPE, STAINLESS STEEL*	ZVS
# VALVE, UNKNOWN TYPE, UNKNOWN MATERIAL*	ZVZ
# VALVE, VENT, CARBON STEEL*	VTVC
# VALVE, VENT, OTHER MATERIAL*	VTVX
# VALVE, VENT, STAINLESS STEEL*	VTVS
# VALVE, VENT, UNKNOWN MATERIAL*	VTVZ
#PUPP, VANE TYPE*	PPPH
#CONTROL, MULTI-VARIABLE*	MUC
#INDICATOR, MULTI-VARIABLE*	MUI
#RECORDER, MULTI-VARIABLE*	MUR
#SWITCH, MULTI-VARIABLE*	MUS
#TRANSMITTER, MULTI-VARIABLE*	MUT
#VALVE, VENT, CARBON STEEL*	VTVX
#VALVE, VENT, OTHER MATERIAL*	VTVS
#VALVE, VENT, STAINLESS STEEL*	VTVZ
#VALVE, VENT, UNKNOWN MATERIAL*	VTVZ

APPENDIX C - TABLE 2

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PERMUTED LISTING OF COMPONENT CODE DESCRIPTIONS

#AIR HANDLING/CONDITIONING UNIT (HEATING AND VENTILATION)*		AHU
# VENTILATOR*		VLR
# VESSEL*		VSL
# VESSEL, REACTOR*		RPV
#ALARM/ ANNUNCIATOR, VIBRATION*		VA
#INDICATOR, VIBRATION*		VI
#PRIMARY ELEMENT, VIBRATION*		VE
#RECCORDER, VIBRATION*		VR
#SWITCH, VIBRATION*		VS
#TRANSMITTER, VIBRATION*		VT
#TRANSFORMER, VOLTAGE/ VOLTAGE POTENTIAL*		XVPT
#TRANSFORMER, VOLTAGE REGULATOR/ CURRENT*		XVCT
#ALARM/ ANNUNCIATOR, VOLTAGE*		EA
#CONTROL, VOLTAGE*		EC
#INDICATOR, VOLTAGE*		EI
#PRIMARY ELEMENT, VOLTAGE*		EE
#RECCORDER, VOLTAGE*		ER
#SWITCH, VOLTAGE*		ES
#TRANSMITTER, VOLTAGE*		ET
#TRANSFORMER, VOLTAGE/ VOLTAGE POTENTIAL*		XVPT
#VALVE, RELIEF W/OPERATOR, CARBON STEEL*		ORVC
#VALVE, RELIEF W/OPERATOR, OTHER MATERIAL*		ORVX
#VALVE, RELIEF W/OPERATOR, STAINLESS STEEL*		ORVS
#VALVE, RELIEF W/OPERATOR, UNKNOWN MATERIAL*		ORVZ
# WALL/ BULKHEAD*		WALL
# WELL, SPECIAL PROCESS MONITOR*		XW
#CABLE/ WIRE*		CBL
#RELAY, PILOT WIRE*		RS
	WELDS	WELD

APPENDIX D

CAUSE CODE LIST

CAUSE CODES - Three separate characters

(As mnemonic aid, the letter name related to the code character is underlined.)

First Character: The first character describes the stage in the "life" of a system, component, or structure in which the problem was caused.

It is not the stage in which the problem was discovered. If the causative stage is unknown, the letter Z (unknown) should be used.

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
E	Site <u>exploration</u>	Search for suitable sites, including core drilling, geologic, hydrologic, and seismic exploration. Errors might include missing a seismic fault, not finding caverns or unsuitable geologic horizons, etc.
D	<u>Design</u>	Design of the affected part or system. Errors might include numerical design errors, selection of unsuitable materials, poor choice of tolerances, etc. Type of design is specified in the second cause code character.
F	<u>Fabrication/</u> <u>manufacture</u>	Production of the affected component in the manufacturer's plant or facility. Usually means manufacture of multiple units. Errors might include use of wrong material, omission of screws or other fasteners, parts made out of tolerance, misassembly, etc.
O	<u>On-site con-</u> <u>struction</u>	This code refers to systems, structures, etc., which are assembled or built on the site of use. It includes buildings, poured concrete structures, foundations, major reactor systems, etc.
P	<u>Purchase/</u> <u>procurement</u>	Buying or ordering parts and components. Errors might include such things as specifying the wrong part, inadequately specifying needed characteristics, etc.

CAUSE CODES (First Character, Continued)

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
T	<u>Transport/shipment</u>	This includes damage during shipping, loss of items during shipment, exposure due to inadequate packing, mishandling during loading/unloading, etc.
S	<u>Post-shipment storage (licensee storage)</u>	Included are problems caused by inadequate or improper storage on the licensee's site, such as exposure to damaging temperatures, weather, rodents, etc. Also includes excessive storage time.
I	<u>Installation/emplacement/mounting</u>	This character defines problems caused by the process of placing the part or component in place, installing it, attaching it where it is to be used, connecting it to its instruments or cables, etc. Note that discovering that a part does not fit is <u>not</u> an installation error. The error was caused by improper design or purchase, or some other fault. But, damaging a part by trying to "make it fit" would belong here.
U	<u>Use in operation</u>	This covers improper use as source of the problem. For example, use of a shut-off valve as control valve, with damage to the seat resulting, applying wrong voltage to a relay, etc. It covers damage by improper use, not, for instance, failure in use due to improper design or faulty manufacture.
M	<u>Maintenance</u>	This code identifies problems caused by improper maintenance. For example use of the wrong lubricant as part of maintenance, not doing maintenance on the required schedule, skipping portions of specified maintenance actions, miscalibrating during maintenance, etc. It does not mean discovery of a problem in the course of maintenance.

CAUSE CODES (First Character, Continued)

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
A	Alteration/ modification	This code identifies problems caused by attempts to make <u>significant</u> changes or modifications to a system or component. It does not include minor "change-outs" of such things as seals and gaskets which belong to maintenance. Use this code if the modifications caused the problem.
X	Other	Stages of "life" not covered above. Needs an explanation in the "OTHER" field.
Y	Not applicable	Used for problems for which designation of a stage does not make sense. For example, a report filed due to a change in NRC regulations might give rise to this code.
Z	Unknown	Use when there is not enough information to make any other assignment.

Second Character: The second cause code character, where it applies, serves to specify and narrow the scope of the first character by telling what type of system or function the faulted part or component belongs to. It will often not be used (in which case the Y - Not applicable code would be designated).

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
Q	Seismic (<u>quake</u>)	Relating to seismic design or construction
T	<u>Thermal</u>	Relating to thermal design or construction, including thermal shields, lagging, temperature stress-strain calculations and the like.

CAUSE CODES (Second Character, Continued)

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
S	<u>Structural</u>	Relating to structural design or fabrication where structural strength and stability are primary concerns.
P	<u>Protection/ shielding</u>	Relating to the design or fabrication of radiation shields (thermal or biological) and other barriers intended to protect against radiation. However it does not include off-gas control systems, HEPA filters, vent systems and the like.
M	<u>Mechanical</u>	Relating to mechanical function equipment, such as control rod drives, hoists and cranes, valves, internal combustion engines, and the like.
E	<u>Electrical (power)</u>	Relating to electric power devices, including cables, buses, transformers, electric switchgear, and motors, and all other electric power manipulating equipment.
I	<u>Instrumentation/ electronics/ controls</u>	Relating to instruments and displays, controls (electric as well as other) computers, process control devices (except their mechanical actuation parts), detectors, and annunciators, as well as all other non-power electric equipment.
X	Other	Functional areas or systems not included above. Requires an explanation in the "OTHER" field.
Y	Not applicable	This code will be extensively used for the second character when there is no need or sense to modifying the first character. Note: If an

CAUSE CODES (Second Character, Continued)

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
		electric motor is damaged in shipment for example, do <u>not</u> use E for the second code, since the transportation is not electric, but use Y for 'not applicable'. Use the second character only to modify or specify the first, where applicable.
Z	Unknown	Use only (probably very rare) where use of a second code seems called for, but it is not known which one it is.

Third Character: The third character codifies the type of failure. This code is used to describe as nearly as possible what caused the difficulty, i.e., what sort of fault was the underlying cause.

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
C	Change in requirements	This code signifies that an originally satisfactory situation has become non-acceptable because NRC requirements or regulations have been changed.
M	Misapplication/ Improper use	This code specifies that the problem was due to a part or component being used inappropriately, either because the unit has the wrong specifications for the application, or it is being used for a purpose not intended by the designers, or it is asked to perform outside its design range or beyond the design limits.
S	Wrong <u>s</u> tandard or specification	This code designates cases where the source of the problem is the use or application of the wrong standard or specification. It does not imply that the standard or specification is intrinsically bad (that would be a records error) but that the wrong one was used, or it was misapplied.

CAUSE CODES (Third Character, Continued)

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
R	Mishandling	This code covers those cases where rough handling (dropping, crushing, bending, etc.) is the cause of the problem. It includes inappropriate packaging for shipment, storing in an inappropriate location, bad choice of means of transport, damage by forklifts, etc.
P	Processing or Fabrication error	This code designates situations where a fabricated, manufactured, or constructed item is not made according to the design or specification, parts are left off, parts are improperly assembled (bolts not tightened, components reversed, etc.), materials are faulty (voids in concrete or concrete outside specifications), welds are bad, etc.
H	<u>Human error</u>	This code designates human errors that do not fit any of the third codes above. For example it might concern improper valve lineup, throwing a wrong switch, etc. Wherever one of the other cause codes is applicable, that choice is preferred over this one
Q	<u>Improper qualification</u>	This code specifies cases where the part or component may be perfectly fine, but the necessary qualification has not been correctly performed to authorize its use for the intended purpose.
T	Improper <u>Turnover</u>	This code relates to problems due to hurried or otherwise improper turnover from manufacturer or A/E to the licensee. It should be used only if no other documentation error (see below) fits the known facts.

CAUSE CODES (Third Character, Continued)

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
U	Records <u>un</u> available	This code designates cases where needed records (defined to include drawings, operating instructions, history records, and all other types of paperwork that must support an item) are missing or have not been prepared.
I	Records <u>in</u> complete	This designates records (as defined above) that exist, but are not complete or lack sufficient detail. Do not use where as-built drawings are in error because they have not been modified or updated; for this problem, see below.
E	Records in <u>Er</u> ror	This code designates errors in records, such as mismatch between drawings and items built, submittal of wrong forms or records, mistakes in drawings and other documents, faulty instructions, etc.
O	Records defi- ciency, <u>o</u> ther	This code is to be used for any faults caused by records, or clearly associated with records as the primary problem, where none of the other records codes (U, I, or E) are applicable.

APPENDIX E

METHOD OF DISCOVERY CODE LIST

APPENDIX E

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METHOD OF DISCOVERY

This code specifies what led to the discovery of the problem. It relates neither to the cause of the problem (Appendix D) nor to the identity of the discovering person or organization (Appendix F). By relating the stage at which the discovery is made, this code has much to say about the relative importance of various inspection methods, and about the alertness of various organizations to potential problems.

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
V	<u>Verification of design calculations</u>	Designates problems encountered in re-doing or rechecking design calculations; includes such checks done by third-party audits.
N	<u>Environmental qualification testing</u>	This code is used when testing to establish qualification with environmental protection requirements identifies a flaw or performance inadequacy.
R	<u>Review of Procedures/test results</u>	This code is used where the discovery takes place as the result of review of documents such as procedures, test results, specifications, standards, or other documentation being routinely reviewed.
A	<u>Acceptance/receiving test or inspection</u>	This code describes a situation where the normal testing and/or inspection done when a part or system is received by the purchaser shows up an error or problem. It includes visual inspection, dimensional verifications, and similar activities. It is distinct from functional testing (see below).
I	<u>Initial/preoperational testing</u>	This code is used to designate discovery of problems in the course of preoperational testing of equipment. This usually means <u>functional</u> testing over the range of operating parameters. It goes beyond receiving inspection and test. When in doubt, use this code rather than A.

METHOD OF DISCOVERY (Continued)

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
E	<u>Emplacement,</u> <u>mounting or</u> <u>installation</u>	This code designates the discovery of a problem in the course of attempting to install, emplace, or set up a component or system. It is used when such trials reveal a failure of dimensions to match, missing parts, misshapen or mis-made components and the like.
O	<u>Operation</u> <u>Failure</u>	Probably the most obvious sign of a problem is that where a part or system fails in operation. This includes failure to start when required, breakdown or failure of components, overheating, vibration beyond allowable limits, and other operating difficulties, whether or not they lead to total failure.
M	<u>Maintenance/</u> <u>modification</u>	This code designates discovery of a problem in the course of attempting to maintain or modify a system or component. If a part or component intended for modifying another system or component is found to be faulty by receiving inspection or other test, use that code, rather than M.
P	<u>Periodic</u> <u>surveillance</u> <u>and inspection</u>	This code designates the discovery of problems in the course of regularly scheduled surveillance and inspection. It is used when the inspection or surveillance is periodic, rather than motivated by "trouble-shooting".
S	<u>Special test</u> <u>and inspection</u>	This code is used when the test or inspection that resulted in discovery of a problem was not a regularly scheduled periodic one, but was done because of indications of trouble, aperiodic NRC inspections, management checks, and the like. It is used for all in-service inspection or post-initial-use inspection that does not fall under P above.

METHOD OF DISCOVERY (Continued)

<u>Code</u>	<u>Name</u>	<u>Explanation</u>
Q	QA Audit	Designates problems identified by QA audits, done by the QA department, rather than by operators. (In the latter case it would fall under A, I, P, or S.) This category includes documentation reviews by the QA staff.
L	QA Inspection	This code is for visual examination by QA inspection, i.e., <u>l</u> ooking at the part or component, rather than document review or other methods of verifying quality.
T	Manufacturer's Testing	This code is used to designate discovery of problems by the manufacturer during his testing to verify acceptability on proper operation of equipment.
X	Other	A method of discovery not covered by any of the other codes. Its use requires an explanation of the "OTHER" field.
Y	Not Applicable	No "Method of Discovery" code is applicable.
Z	Unknown	Method of discovery is not given in the available information and cannot be inferred reliably from any data available to the coder.

APPENDIX F

"WHO DISCOVERED" CODE LIST

APPENDIX F

WHO DISCOVERED

LI Licensee
MF Manufacturer
CO Constructor (site construction contractor)
AE Architect/Engineer
VE Vendor/Supplier
RI NRC Resident Inspector
RE NRC Regional Inspection Team
AT NRC Audit Team
HQ NRC Headquarters Staff
NS NSSS Supplier
TP Third-party Auditor
XX Other
YY Not Applicable
ZZ Unknown

APPENDIX G

FACILITY CODE LISTS

APPENDIX G - TABLE 1

Docket Numbers for Reactors In Construction

<u>Plant Name</u>	<u>Docket Number</u>	<u>Plant Name</u>	<u>Docket Number</u>
Beaver Valley 2	412	Midland 2	330
Bellefonte 1	438	Millstone 3	423
Bellefonte 2	439	Nine Mile Point 2	410
Braidwood 1	456	North Anna 3	404
Braidwood 2	457	Palo Verde 1	528
Byron 1	454	Palo Verde 2	529
Byron 2	455	Palo Verde 3	530
Callaway 1	483	Perry 1	440
Catawba 1	413	Perry 2	441
Catawba 2	414	Phipps Bend 1	553
Cherokee 1	491	Phipps Bend 2	554
Cherokee 2	492	River Bend 1	458
Cherokee 3	493	River Bend 2	459
Clinton 1	461	San Onofre 3	362
Clinton 2	462	Seabrook 1	443
Comanche Peak 1	445	Seabrook 2	444
Comanche Peak 2	446	Shoreham	322
Diablo Canyon 1	275	South Texas 1	498
Diablo Canyon 2	323	South Texas 2	499
Enrico Fermi 2	341	St. Lucie 2	389
Grand Gulf 2	417	Summer 1	395
Harris 1	400	Susquehanna 1	387
Harris 2	401	Susquehanna 2	388
Hartsville A-1	518	Vogtle 1	424
Hartsville A-2	519	Vogtle 2	425
Hartsville B-1	520	Washington Nuclear 1	460
Hartsville B-2	521	Washington Nuclear 2	397
Hope Creek 1	354	Washington Nuclear 3	508
LaSalle 2	374	Waterford 3	382
Limerick 1	352	Watts Bar 1	390
Limerick 2	353	Watts Bar 2	391
Marble Hill 1	546	Wolf Creek 1	482
Marble Hill 2	547	Yellow Creek 1	566
McGuire 2	370	Yellow Creek 2	567
Midland 1	329	Zimmer 1	358

APPENDIX G - TABLE 2
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Non-Reactor Facility Codes

MAJOR LICENSED FUEL CYCLE FACILITIES

Data as of: JUNE 30, 1983

Company-Licensee	Type Facility	City	State
Allied Chemical Corp.	Uranium Hexafluoride	Metropolis	Illinois
Atlas Minerals Inc.	Uranium Mill	Moab	Utah
Babcock & Wilcox	Fuel Fabrication- High Enriched Uranium	Lynchburg	Virginia
Babcock & Wilcox	Fuel Fabrication	Apollo	Pennsylvania
Babcock & Wilcox	Advanced Fuel R & D	Leechburg	Pennsylvania
Babcock & Wilcox	Uranium Fuel R & D	Lynchburg	Virginia
Babcock & Wilcox	Fuel Fabrication-Low Enriched Uranium	Lynchburg	Virginia
Battelle Memorial Institute	Advanced Fuel R & D	Columbus	Ohio
Battelle Pacific NW Labs.	Uranium Fuel R & D	Richland	Washington
Bear Creek Uranium Co.	Uranium Mill	Bear Creek	Wyoming
Combustion Eng., Inc.	Fuel Fabrication	Hematite	Missouri
Combustion Eng., Inc.	Fuel Fabrication	Windsor	Connecticut
Energy Fuels Nuclear, Inc.	Uranium Mill	Blanding	Utah
Exxon Minerals	Uranium Mill and Commercial Solution Mining	Converse Co.	Wyoming
Exxon Nuclear Co.	Fuel Fabrication and Advanced Fuel R & D	Richland	Washington
Federal Amer. Partners	Uranium Mill	Gas Hills	Wyoming
General Atomic Co.	Fuel Fabrication	Torrey Pines Mesa	California
General Electric Co.	Independent Spent Fuel Storage Installation	Morris	Illinois
General Electric Co.	Advanced Fuel R & D	Vallejos	California
General Electric Co.	Uranium Fuel R & D	Pleasanton	California
General Electric Co.	Fuel Fabrication	Wilmington	N. Carolina
Ferr-McGee	Uranium Hexafluoride	Gore	Oklahoma

MAJOR LICENSED FUEL CYCLE FACILITIES

Company-Licensee	Type Facility	City	State
10 Kerr-McGee	Fuel Fabrication	Crescent	Oklahoma
11 Kerr-McGee	Advanced Fuel R & D	Crescent	Oklahoma
12 Minerals Exploration	Uranium Mill	Sweetwater Co.	Wyoming
13 Nuclear Fuel Ser., Inc.	Fuel Fabrication	Erwin	Tennessee
14 Nuclear Fuel Ser., Inc.	Interim Spent Fuel Storage (Dormant Reprocessing)	West Valley	New York
15 Ogle Petroleum	Commercial Solution Mining	Fremont Co.	Wyoming
16 Pathfinder Mines Corp.	Uranium Mill	Gas Hills	Wyoming
17 Pathfinder Mines Corp.	Uranium Mill	Shirley Basin	Wyoming
18 Petromics, Inc.	Uranium Mill	Casper	Wyoming
19 Plateau Resources	Uranium Mill	Shooting Canyon	Utah
20 Rio Algom Corp.	Uranium Mill	Moab	Utah
21 Rockwell Internatl. Corp.	Fuel Fabrication and Advanced Fuel R & D	Canoga Park	California
22 Silver King Mines	Uranium Mill	Converse Co.	Wyoming
23 Tennessee Valley Authority*	Uranium Mill	Edgemont	South Dakota
24 Texas Instruments, Inc.	Fuel Fabrication	N. Attleboro	Massachusetts
25 Union Carbide	Uranium Mill	Gas Hills	Wyoming
26 United Nuclear Corp.	Fuel Fabrication	Montville	Connecticut
27 United Nuclear Corp.	Fuel Fabrication	Wood River Jct	Rhode Island
28 Western Nuclear Corp.	Uranium Mill	Jeffrey City	Wyoming
29 Westinghouse Elec. Co.	Advanced Fuel R & D	Cheswick	Pennsylvania
30 Westinghouse Elec. Co.	Fuel Fabrication	Columbia	S. Carolina
31 Westinghouse Elec. Co.	Uranium Fuel R & D	Waltz Mill	Pennsylvania
32 Wyoming Minerals	Commercial Solution Mining	Johnson Co.	Wyoming

*INACTIVE MILL; BEING DECOMMISSIONED.

APPENDIX G - TABLE 3

Operating Reactor Identifier Codes - Docket Numbers

<u>Facility name and unit number</u>	<u>Docket number</u>
Arkansas Nuclear 1	313
Arkansas Nuclear 2	368
Arnold	331
Beaver Valley 1	334
Big Rock Point	155
Browns Ferry 1	259
Browns Ferry 2	260
Browns Ferry 3	296
Brunswick 1	325
Brunswick 2	324
Calvert Cliffs 1	317
Calvert Cliffs 2	318
Connecticut Yankee	213
Cook 1	315
Cook 2	316
Cooper	298
Crystal River 3	302
Davis-Besse 1	346
Dresden 1	010
Dresden 2	237
Dresden 3	249
Farley 1	348
Fitzpatrick	333
Ft. Calhoun 1	285
Ft. St. Vrain	267
Ginna	244
Grand Gulf 1	416
Hatch 1	321
Hatch 2	366
Humboldt Bay	133
Indian Point 1	003
Indian Point 2	247
Indian Point 3	286
Kewaunee	305
La Salle 1	373
Lacrosse	409
Maine Yankee	309
McGuire 1	369
Millstone 1	245
Millstone 2	336
Nine Mile Point 1	220
North Anna 1	338

APPENDIX G - TABLE 3 (continued)

North Anna 2	339
Oconee 1	269
Oconee 2	270
Oconee 3	287
Oyster Creek	219
Palisades	255
Peach Bottom 2	277
Peach Bottom 3	278
Pilgrim 1	293
Point Beach 1	266
Point Beach 2	301
Prairie Island 1	282
Prairie Island 2	306
Quad Cities 1	254
Quad Cities 2	265
Rancho Seco	312
Robinson 2	261
Salem 1	272
Salem 2	311
San Onofre 1	206
Sequoyah 1	327
Sequoyah 2	328
St. Lucie 1	335
Surry 1	280
Surry 2	281
Three Mile Island 1	289
Three Mile Island 2	320
Trojan	344
Turkey Point 3	250
Turkey Point 4	251
Vermont Yankee	271
Yankee Rowe	029
Zion 1	295
Zion 2	304

APPENDIX G - TABLE 4

Codes for Generic Reactor Groups

ALL	All facilities
ALP	Potentially all facilities
LWR	All light-water reactors
LWP	Potentially all light-water reactors
BWR	All BWRs
BWP	Potentially all BWRs
PWR	All PWRs
PWP	Potentially all PWRs
FCF	All fuel cycle facilities (other than reactors)
FCP	Potentially all fuel cycle facilities other than reactors
WER	All Westinghouse reactors
GER	All GE reactors
BAR	All B&W reactors
CER	All CE reactors
WEP	Potentially all Westinghouse reactors
GEP	Potentially all GE reactors
BAP	Potentially all B&W reactors
CEP	Potentially all CE reactors

APPENDIX G - TABLE 5

Facility Type Code

- A. UF₆ Mfr.
- B. U Mill
- C. Fuel Fabrication
- D. Fuel R&D
- E. AFR Spent Fuel Storage
- F. Commercial Solution Mining
- P. PWR
- Q. BWR
- R. HTGR
- X. Other
- Y. Not Applicable
- Z. Unknown

APPENDIX H

VENDOR/MANUFACTURER CODE LISTS

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 Component Vendor Code Sorted By Code

CODE	VENDOR NAME	CODE	VENDOR NAME
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A001	AA WIRE PRODUCTS COMPANY	A052	ACORN BUILDING COMPONENTS INC.
A002	AAA PRODUCTS	A053	ACRA ELECTRIC CORP.
A003	ABELL-HOME COMPANY	A054	ACE WELDING SUPPLY INC.
A004	A & B PRODUCTS, INC.	A055	ADAMS & WESTLAKE
A005	A & A MANUFACTURING CO.	A056	AIR FILM SYSTEMS CORP.
A006	A & H ENGINEERING	A057	ALAMEDA TANK CO.
A007	A & C CONTROLS MANUFACTURING CO., INC.	A058	AHRTK INC. (SCHUTTE & KOERTING DIV)
A008	ABC DOORS	A059	AIRCO INDUSTRIAL GASES
A009	AACTION BLDG SYSTEMS INC.	A060	ADAMS, R. P. CO., INC.
A010	A. R. T. RESEARCH CORP.	A061	ADAMSON CO., INC.
A011	A. R. ENGINEERING	A062	AEROJET ENERGY CONVERSION CO.
A012	ABC HARDWARE & SUPPLY CO.	A063	ADAPTO STEEL PRODUCTS
A013	ABEX CORPORATION	A064	ADRESSOGRAPH/KULTIGRAPH (BRUNING DIV.)
A014	ABEX DENISON COMPANY (DIV OF ABEX CORPORATION)	A065	ADE CORP.
A015	A. P. V. COMPANY, INC.	A066	AIRTEK INC.
A016	ABLE SERVICES INC.	A067	AIR-MAE INCOM INTERNATIONAL INC.
A017	A-S-H PUMP	A068	AEROACOUSTICS CORPORATION, THE
A018	ACCO-HOIST & CRAIN DIVISION	A069	ADHESIVE ENGINEERING
A019	ADD EON INC.	A070	ADELPHI INDUSTRIES
A020	AAB NUCLEAR CORP.	A071	ADMIRAL PAINT CO.
A021	ABBOTT HEAT EXCHANGER CORP.	A072	ADSCO DIV (YUMA)
A022	ABANA PRODUCTS, INC.	A073	ADT SECURITY SYSTEMS
A023	ABCO WELDING & INDUSTRIAL CO.	A074	ADVANCE CAST STONE CO.
A024	ABLE SCALES CO.	A075	ADVANCED PRODUCTS CO.
A025	ACCELERATORS, INC.	A076	ADVANCE ENGINEERING CO.
A026	ACC-ELECTRO MECHICAL DIVISION	A077	ADVANCED TESTS AND INSPECTIONS, INC.
A027	ACCURATE PARTITIONS, DIV-KINCID INDUST INC.	A078	ADVANCE EQUIPMENT CO, INC.
A028	ACE CONTROLS	A079	ADVANCE CONSTRUCTION EQUIPMENT CO, INC.
A029	ACME ENGINEERING & MFG. COMPANY	A080	ARG TELEFUNKEN
A030	ACCURATE ENGINEERING CO.	A081	ADVANCE LIFTS INC.
A031	ACID PRODUCTS CO, INC.	A082	AIR DEVICES INC.
A032	ACP INDUSTRIES INC.	A083	AIR CONDITIONING CO., INC.
A033	ACME WELDING - DIV OF UNITED TOOL & DIE	A084	AGITAR CO.
A034	A-C PIPE CO.	A085	AERMOTOR
A035	ACME IND.	A086	AHERN, J. S. CO.
A036	ACORN WIRE AND IRON WORKS	A087	AERONCA INC.
A037	ACS INDUSTRIES INC.	A088	AERO MOTIVE MFG COMPANY
A038	ACOPIAN	A089	AEROFIN CORP.
A039	ACHAT CORP.	A090	AERO RESEARCH CO.
A040	ACTON ENVIRONMENTAL TESTING CORP.	A091	AEROTRONIC CONTROL CORP.
A041	ACCO BRISTOL DIVISION	A092	AIRLINE HYDRAULICS CORP.
A042	ACROMAG	A093	AIRCO CRYOGENICS
A043	ACRIMENT COMPANY	A094	AIR DIMENSIONS, INC.
A044	ACINET MFG CO.	A095	AEROJET MANUFACTURING CO.
A045	AD-O-PLASTIC	A096	AIR FAN ENGINEERING CO.
A046	ACUSHNET CO.	A097	AGM ELECTRIC INC.
A047	ACORN CO.	A098	AIR SPRAY EQUIP INC.
A048	ABBOTT POWER CORPORATION	A099	AIR MOVING & CONDITIONING ASSOCIATION
A049	ACRISON, INC.	A100	AERQUIP COPP.
A050	ADAM, FRANK	A101	AERO SPACE (DIV OF U.O.P.)
A051	ACTION INSTRUMENT CO., INC.	A102	AEROPROCESS, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A103	AEROTEC INDUSTRIES, INC.	A154	ALEXANDER CHEMICAL CO.
A104	AEROTEC TRANSDUCER TECHNOLOGY CENTER	A155	ALLEGHENY LUDLUM STEEL CORP.
A105	AEROTEST OPERATIONS	A156	ALEXANDER VACUUM RESEARCH, INC.
A106	AEROVENT INC.	A157	A-LINED HANDLING SYSTEM
A107	AFCO STEEL	A158	ALABAMA METAL INDUSTRIES CORPORATION
A108	AFFILIATED STEAM EQUIPMENT CO.	A159	ALBAMA PRECAST PRODUCT
A109	AGASTAT RELAY CO.	A160	ALLEN-BRADLEY CO.
A110	AEROVENT FAN & EQUIPMENT INC.	A161	ALLENCO
A111	AILTECH	A162	ALCOA CONDUCTOR PRODUCTS CO.
A112	AETNA MACHINE CORPORATION	A163	ALBANY ENGINEERS SYSTEM
A113	AIR CORRECTION DIV, UNIVERSAL OIL	A164	ALLEN, M. C. CORPORATION
A114	AIR-MAZE DIV (ROCKWELL STANDARD)	A165	ALLEN-SHERMAN-HOFF
A115	AIR PREHEATER COMPANY	A166	ALADDIN CO.
A116	AIR FILTER AND EQUIPMENT CO.	A167	ALLEN, W. D., MANUFACTURING CO.
A117	AIR CONTROL INCORPORATED	A168	ALLEN UNDERGROUND
A118	AIR MONITOR CORP.	A169	ALLIED BUILDING SYSTEMS
A119	AIRMATIC VALVE INC.	A170	ALLIED CHEMICAL CORP.
A120	AIR PRODUCTS & CHEMICALS INC.	A171	ALLIED CONTROL CO.
A121	AIRLINE PRODUCTS CO.	A172	ALLIED ENGINEERING & PRODUCTION
A122	AIROLITE	A173	ALLIED ELECTRONICS
A123	AIRPAX ELECTRONICS INC.	A174	ALLIED INDUSTRIES
A124	AIR BALANCE, INC.	A175	ALLIED-GULF NUCLEAR SERVICES
A125	AIR-TEC, INC.	A176	ALCO CONTROLS
A126	AIRTITE, INC.	A177	ALLIED STRUCTURAL STEEL
A127	AIRCO LABORATORY	A178	ALLIED RADIO
A128	AIR GUIDE CO.	A179	ALLIED STEEL
A129	AIR-BOY MANUFACTURING COMPANY	A180	ALLIS CHALKERS
A130	AIRCO SPEER CARBON-GRAPHITE DIV	A181	ALLIED THERMAL CORP.
A131	AIR MARK	A182	ALLIED SUPPLIER & ERECTION INC.
A132	AIR MAPS, INC.	A183	ALLISON CONTROL CORP.
A133	ALKEO	A184	ALL STAINLESS OF TEXAS INC.
A134	AIR CONDITION PRODUCTS COMPANY	A185	ALLIS, LOUIS
A135	AIRCO TEMESCAL	A186	ALLOY FLANGE AND FITTING CO.
A136	AIR PRODUCTS EQUIP. COMPANY	A187	ALLOY MACHINES
A137	AIR CLEAN DAMPER COMPANY	A188	ALLOY RODS
A138	ALBERICI CONSTRUCTION COMPANY	A189	ALLOY STAINLESS PRODUCTS CO.
A139	ALAMO IRON WORKS	A190	ALLOY STEEL PRODUCTS CO.
A140	AIRCO CRYOPLANTS CORP.	A191	ALLOY SLING CHAINS, INC.
A141	AKRO-TEC, INC.	A192	ALLOY ENGINEERING CO., INC.
A142	AIRCO WELDING SUPPLY	A193	ALLOY PRODUCTS
A143	ALFAB, INC.	A194	ALL-STAINLESS PRODUCTS CO.
A144	ALABAMA PIPE CO.	A195	ALLSTATES DESIGN & DEVELOPMENT CO.
A145	AITKEN PRODUCTS	A196	ALMEDA TANK
A146	ALBANY PRODUCTS	A197	ALNOR INSTRUMENT CO.
A147	ALBERT PIPE & SUPPLY	A198	ALISON CONTROL INC.
A148	ALBI MFG CITIES SERVICE CO.	A199	ALLSTATE CHEMICAL CO.
A149	ALCATEL VACUUM PRODUCTS	A200	ALOYCO, INC.
A150	AJAX IRON WORKS	A201	AERO-JET GENERAL CORP.
A151	ALABAMA POWER COMPANY	A202	ALL SPEC FASTENERS INC.
A152	ALCO ENGINE DIVISION, WHITE IND.	A203	ALLAN ENGINEERING CO, INC.
A153	ALL BORO METAL PRODUCTS CO.	A204	ALSTHOLM-BELFORT (FRANCE)

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A205	ALPHA SCIENTIFIC, INC.	A256	AIRTRONICS CORPORATION
A206	ALT, V. S., & SON	A257	ALCO POWER INC.
A207	ALPHA TANK & METALS MANUFACTURING	A258	AMERICAN AERIAL SUVERYS, INC. OF N. CALIF
A208	ALTEN	A259	ALTON TECHNOLOGY, INC.
A209	ALTO ENGINEERING ASSOCIATES	A260	AMERICAN GAS & CHEMICALS INC.
A210	ALUMINUM CO. OF AMERICA	A261	AFL INDUSTRIES
A211	AMAX	A262	AKRON BRASS COMPANY
A212	AMCOMP INC.	A263	A-D CONTROLS, INC.
A213	AM & M, INC.	A264	AINSWORTH
A214	AMBER/BOOTS CO.	A265	AMERICAN GAS ACCUM
A215	AMF BEAIRD, INC.	A266	AMERICAN HEAT RECLAIMING CORPORATION
A216	AMCHEM PRODUCTS INC.	A267	AMERICAN HARDWARE
A217	AMELCO ELECTRIC CO., INC.	A268	AUTOTRON, INC.
A218	AMF CUNO DIV.	A269	ALASKAN COPPER WORKS
A219	AMERICAN ABRASIVE METALS COMPANY	A270	AMERICAN INSTRUMENT CO.
A220	AMERICAN AIR FILTER CO., INC.	A271	AMERICAN INTERNATIONAL
A221	AMB FLEXIBLE HOSE INC.	A272	AGGREGATE EQUIPMENT, INC.
A222	AMERICAN AEROSPACE	A273	ALEXANDRIA GLASS CO.
A223	AMERICAN ART METALS	A274	AMERICAN ELECTRIC POWER SERVICE CORP.
A224	AMBASSADOR GLASS, INC.	A275	AMERICAN LAFRANCE
A225	AMERICAN ATOMICS CORP.	A276	AM CONTROLS
A226	ALEXANDER GAMMIE & ASSOCIATES	A277	A & S WELDING COMPANY
A227	ALLIED FIRE EQUIP CO. INC.	A278	ALBINA ENGINE & MACHINE WORKS, INC.
A228	ALLIED LEAD, INC.	A279	ACS, INC.
A229	ALLIED-CALLAWAY EQUIPMENT COMPANY, INC.	A280	AMERICAN LEWA, INC.
A230	AMERICAN BEARING	A281	AMERICAN NUCLEAR INSURANCE
A231	A M P INC.	A282	AMERICAN NUCLEAR SOCIETY
A232	ALLMETALS WELDING	A283	ADVANCE AUTOMATION COMPANY
A233	AMERICAN BILTRITE RUBBER COMPANY	A284	AVC SPECIALIST INC
A234	AMBI-TECH INDUSTRIES INC.	A285	AMERICAN MACHINE & FOUNDRY COMPANY
A235	AMERICAN BLOWER CORP.	A286	AC VALVE & CONTROL CORP
A236	ALLOY STEEL CASTING COMPANY	A287	A&S BLDG SYSTEMS
A237	AMERICAN BOILER & TANK CO.	A288	ALCORN FENCE
A238	AMERICAN BOSCH DIV, ARMA CORP.	A289	AMF POTTER & BRUMFIELD DIV
A239	AMERICAN BRISTOL INDUSTRIES INC.	A290	AMERICAN MANGANESE DIV
A240	AMERICAN BRIDGE	A291	AMERICAN MANUFACTURING CO. INC.
A241	AMERICAN COOLAIR CORPORATION	A292	ALLEGHENY PLASTICS INC
A242	AMERICAN CAST IRON PIPE CO.	A293	ALSPAUGH, GLEN CO INC
A243	AMERICAN CORROSION CONTROL DIV	A294	ALLIGER & SEARS CO (SCRUGGS CO INC)
A244	AMERICAN COIL COMPANY	A295	AMERICAN MARSH PUMPS
A245	AMERICAN CHAIN AND CABLE COMPANY	A296	ALFA-LAVAL INC
A246	AMERICAN SOLENOID CO., INC.	A297	AMERICAN DAVIDSON INC
A247	AMERICAN CRANE DIVISION, INC.	A298	ANDERSON, K.R. CO INC
A248	ADVANCE AIR (DIV OF ALLIED THERMAL)	A299	AMERICAN MULTIPLEX SYSTEMS INC.
A249	AMERICAN ELECTRIC	A300	AMERICAN METAL CLIMAX, INC.
A250	AMERICAN ENGINEERING	A301	AMERICAN METER COMPANY
A251	ACUREY CORP.	A302	AMERICAN HONORAIL, INC.
A252	AIROX EARTH RESOURCES	A303	AMERICAN METER CONTROLS
A253	AMERICAN FAN CO.	A304	AMERICAN PACKING & GASKET CO.
A254	AHERN, J. F., CO.	A305	AMERICAN OPTICAL CORP.
A255	AMERICAN FOUNDRY & FURNACE	A306	AMERICAN PANCOR, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A308	AMERICAN RUBBER	A360	AMES CO.
A309	AMERICAN SMELTING & REFINING CO.	A361	AMTEX SUPPLY CO.
A310	AMERICAN STANDARD INDUSTRIES	A362	AMTEK, STRAEA, DIV.
A311	AMERICAN-SAINT GOBAIN	A363	AMETAK INSTRUMENT AND CONTROLS
A312	AMERICAN STANDARD INDUSTRIAL PRODUCTS DIV.	A364	AHHERS BUILDING COMPANY
A313	AMERICAN SOCIETY OF MECHANICAL ENGINEERING	A365	AMETEK/CALMEC
A314	AMERICAN SOCIETY-NON-DESTRUCTIVE TESTING	A366	AMENCO
A315	AMERICAN STEAM CONVEYOR	A367	ANLAB INC.
A316	AMERICAN PULVERISER CO.	A368	AMOT CONTROL CORP.
A317	AMERICAN STAMP & NOVELTY MFG CO.	A369	AMPCO METAL INC.
A318	AMERICAN KETTLER	A370	AMPEREX ELECTRONIC CORP.
A319	AMERICAN VALVE MFG CORPORATION	A371	AMPCO
A320	AMERICAN STEAM PUMP	A372	AMTEK (U.S. GAUGE DIV)
A321	AMERICAN STANDARD, HEAT TRANSFER DIV.	A373	AMOS, A.R. EQUIPMENT CO.
A322	AMERICAN STEEL & ALUMINUM CO.	A374	AMFROSE INSTRUMENT DIVISION
A323	AMERICAN STEEL & IRON WORKS INC.	A375	AMPEX CORP.
A324	ANALOG DEVICES INC	A376	ACTIONCRAFT PRODS INC
A325	AMERICAN TEL & RADIO	A377	ALLIED SUP CO
A326	AMERICAN SANITARY PARTITION CORP.	A378	ANDERSON IND SUP
A328	AMERICAN TOOL & MACHINE	A379	AMSCOR
A329	ALDAG SHEET METAL WKS	A380	AMPHENOL
A330	AMERICAN TOOL WORKS	A381	ANTRACK, INC.
A331	ANDERSON, W.E. INC	A382	AMP SPECIAL INDUSTRIES
A332	ARMSTRONG PUMPS INC	A383	AN-TECH. CORPORATION
A333	AMERICAN MICROSEMICONDUCTOR INC	A384	ANACONDA AMERICAN BRASS CO.
A334	ALL-LITE METAL WINDOW CO	A385	ANACONDA WIRE AND CABLE CO.
A335	AMERICAN TRANSFORMER	A386	ANACONDA AMARLITE PRODUCTS
A336	ALERT STEEL PROD CO	A387	ANAMET LABORATORIES
A337	AS SUPERIOR	A388	ANACONDA METAL HOSE CO.
A338	ACM DISTRIBUTORS INC	A389	ANALOGIC
A339	ALAMEDA FENCE CO	A390	ANCHOR ALLOYS INC.
A340	AMERICAN WARMING & VENTILATING INC.	A391	ANCHOR/DARLING VALVE CO. (SEE D020)
A341	ALBER ENGG INC	A392	ANCHOR EQUIPMENT CO.
A342	ANALYSIS & MEASUREMENT SVSS	A393	ANCHOR/DARLING INDUSTRIES (SEE D025)
A343	ANCHOR POST PRODS INC	A394	ANCHOR PACKING CO.
A344	AMERICAN WELDING SOCIETY	A395	ANCHOR VALVE CO.
A345	AMERICAN WELL WORKS	A396	ANDCO POWER INDUSTRIES INC.
A346	AMBROSINI & CHALMERS, INC.	A397	AC-DC ELECTRONICS
A347	ANARILLO GEAR COMPANY	A398	ANTRON CORP
A348	AMERACE CORP.	A399	ARRO-MARK CO INC
A349	ARIZONA PUBLIC SERVICE CO	A400	ANDALE CO
A350	AMERON	A401	AMETEK-U S BELLOWS (FRMLY U003)
A351	ALPHA WIRE CORP	A402	ALDEN HEATING & VENTLTNG EQUIP CO
A352	AERODYNE DEVELOPMENT CORP	A403	ALLIED CONSTRUCTION SERVICE
A353	ALLOY CRAFTS CO	A404	ANDERSON BRASS WORKS INC.
A354	AGM ELECTRONICS INC	A405	ANDERSON ELEC CORP.
A355	AMERSHAM/SEARLE CORP.	A406	ANDERSON EQUIPMENT COMPANY
A356	AMETEK INC, MANSFIELD & GREEN DIVISION	A407	ALLMETAL SCREW PRODS CO INC
A357	AMERTAP CORPORATION	A408	AMERICAN CRANE AND EQUIP CORP
A358	AMPAC ELECTRICAL SUPPLY CO.	A409	ALLIED VALVE INDUSTRIES INC
A359	AMTEX INDUSTRIAL SUPPLY CO, INC.	A410	ANDERSON, C. J.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A411	AMOCO OIL CO	A462	ARCH TECHNOLOGY CORP
A412	AMERICAN HOIST & DERRICK CO	A463	ARCHITECTURAL IRON INC.
A413	ACE PUMP CORP	A464	AQUADYNE - DIV OF MOTOMCO INC.
A414	ANDERSON IBEC	A465	APPLIED SYSTEMS CORP.
A415	ANDERSON, GREENWOOD & CO.	A466	AQUA-MEC INC.
A416	ANDERSON SUPPLY CO., INC.	A467	ARBANE ELECTRIC CO.
A417	ANDERSON, V. D.	A468	AQUAMATIC
A418	ARRON GEAR CO	A469	ARCHITECTURAL RESEARCH
A419	APPLIED TEST SYSTEMS INC	A470	AQUA CHEM, INC.
A420	ANDONIAN CRYOGENICS INC.	A471	ARCOS CORPORATION
A421	AMERICAN INDUSTRIES CO (AICO)	A472	ARKANSAS POWER & LIGHT COMPANY
A422	ANDREWS CORPORATION	A473	ARAGON ENGINEERING CO.
A423	ANGENIEUX	A474	ARGONNE NATIONAL LAB
A424	ANIXTER POWER SYSTEMS DIVISION	A475	ARI INDUSTRIES, INC.
A425	ANISTICS INC.	A476	ARGO INTERNATIONAL CORP.
A426	ANNEX RAILROAD BUILDERS	A477	ARCOM INDUSTRIES
A427	ANNIN CO.	A478	ARIZONA GEAR
A428	ANSCO, INC.	A479	ARHCO METAL PRODUCTS CORPORATION
A429	ANIXTER BROS INC (X-REF A424)	A480	ARMCO STEEL CORP.
A430	ANSUL CHEMICAL	A481	ARHCO SYSTEMS CONTRACTING
A431	AIR TURBINE PROPELLER CO	A482	ARLINGTON STRUCTURAL STEEL COMPANY
A432	ALPHA ASSOC INC	A483	ARMSTRONG BLUMH
A433	APCO VALVE & PRIMAR CO.	A484	ARMSTRONG CONTRACTING & SUPPLY CORP.
A434	API INC.	A485	ARMSTRONG MACHINE WORKS
A435	API INSTRU CO.	A486	ARMSTRONG CORK COMPANY
A436	API INDUSTRIAL CONTROLLERS	A487	ARMSTRONG HUMIDIFIERS
A437	APPARATUS SERVICE CO.	A488	ARMOR
A438	APACHE BLDG PRODS CO	A489	ARMOR ELEVATOR COMPANY, INC.
A439	ASSOCIATED FLOW CONTROLS INC	A490	ARROWHEAD
A440	APPLETON	A491	ARROW TANK & ENGINEERING CO.
A441	AREA SHEET METAL INC	A492	ARROW, HART & HEGEMAN
A442	A&M INSULATION CO	A493	ART-O-LITE (BWB INTERPRISES)
A443	APPLIANCK BUILDING CO., INC.	A494	ARROW UNITED INDUSTRY, INC.
A444	APPLIED BIOLOGY INC.	A495	ARTISAN INDUSTRIES INC.
A445	APPLIED DYNAMICS, INC.	A496	ARTE, E.G., INC.
A446	ARTHUR INDUSTRIES INC	A497	ASEO VALVE
A447	APPLIED ENG CO.	A498	ASBESTOS AND MAGNESIA MATERIALS CO.
A448	AREATA PUMP & EQUIP CO	A499	ASCO VALVES
A449	AUSTIN POWER INC	A500	ASEA ELECTRIC, INC.
A450	APPLIED HEALTH PHYSICS, INC.	A501	ASHCROFT GAUGE
A451	ARO CORP, THE	A502	ASHCROFT SWITCH
A452	ARROW ELECTRONICS	A503	ASHBROOK CORPORATION
A453	ARCHITECTURAL SALES (LENSING WHSL)	A504	ASHLAND PETROLEUM CO.
A454	ANACONDA-ERICSSON CORP (FRMLY A385)	A505	ASSEMBLY PRODUCTS INC.
A455	APPLIED NUCLEONICS COMPANY, INC.	A506	ASSOCIATED INSTRUMENTS
A456	APPLIED PHYSICAL TECHNOLOGY	A507	ASSOCIATED CONTROL EQUIPMENT
A457	AROMCO INDUSTRIES, INC.	A508	ASSOCIATED INSULATION
A458	ARTCREST PRODUCTS CO., INC.	A509	ASSOCIATED MACHINE CO.
A459	AQUALITY ASSOCIATES, INC.	A510	ASSOCIATED PIPING & ENGINEERING CORP.
A460	APPLIED RADIATION CORP.	A511	ASSOCIATE RESEARCH INC.
A461	ARGA CONTROLS	A512	ASSOCIATED SPRING CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A513	ASSOCIATED PRODUCTS CONTROL	A570	ATOMIC POWER DEVELOPMENT ASSOC. INC.
A514	ASSOCIATED WELDING SUPPLY INC.	A575	ATOMIC PRODUCTS CORP.
A515	ASTRO INDUSTRIES, INC.	A578	ATOMIC IND INC
A516	ASSOCIATED PROCESS CONTROLS	A579	ATOMIC INDUSTRIAL FORUM INC.
A517	ASHDOD ELECTRO-CONTROLS LIMITED	A580	ATONICS INTERNATIONAL
A518	ASHLAND VAULT, INC.	A581	AUMA ACTUATORS, INC.
A519	ASC MFG CO	A582	ATLANTIC STEEL CO
A520	ASTRO-ARC CO.	A583	AUBURN STEEL CO INC
A521	ASTROPHYSICS RESEARCH CORP.	A584	AUCOIN-MILLER ELECTRIC SUPPLY
A522	ARROW PNEUMATICS	A585	ATWOOD & MORRILL CO., INC.
A523	ASSOCIATED TECHNOLOGIES INC	A586	AUCOIN ELECTRIC SUPPLY
A524	ATHEY PROD CORP (KOLMAN)	A567	AUL INSTRUMENTS
A525	ATCOR, INC.	A588	AUSTIN ASSOCIATES INC.
A526	ADVANCE IND	A589	AUSTIN BUILDING
A527	ASHLAND CHEMICAL CO	A590	AURORA PUMP
A528	ATLAS METAL PROD CO INC	A591	AUSTIN BRIDGE COMPANY
A529	ASSOCIATED MECHANICAL SVCS	A592	AUSTING STEEL CO, INC.
A530	AIRSTREAM PROD DIV	A593	AUTEC SYSTEMS INC.
A531	APPLICATIONS ENGG CORP	A594	AURORA PRECAST CONCRETE INC.
A532	AYEC, INC.	A595	AUTO CONTROL
A533	ATHENA CONTROL	A596	AUSTIN METER INC
A534	ATKINSON, GUY F. CORP.	A597	ACME STRUCTURAL INC
A535	ATKOMATIC VALVE CO., INC.	A598	ANEMOSTAT PRODUCTS
A536	A C LIGHTNING SECURITY INC	A600	AUTO ELECTRIC
A537	ARK ELECTRONIC PRODUCTS INC	A605	AUTOMATIC SPRINKLER CORPORATION
A538	ATLANTA ENGINEERING CO.	A606	AUTOMATIC TERMINAL INFORMATION SYSTEM INC.
A539	AIR TECHNIQUE INC	A607	AUTOMATED HANDLING SYSTEMS, INC.
A540	ATLAS CAR & MANUFACTURING CO., THE	A608	AUTOMATIC FILTER SYSTEMS, INC.
A541	AMERICAN COLLOID CO	A610	AUTOMATIC SWITCH COMPANY (ASCO)
A542	AJ UNITED MACHINE & METAL PROD CORP	A611	AUTOMATIC TIMING AND CONTROL INC.
A543	ADAM METAL SUPPLY INC	A612	AUTOMATIC TEMPERATURE CONTROLS
A544	ATLAS COPCO INC.	A613	AUTOMATIC VALVE COMPANY
A545	ATLAS CORP.	A615	AUTOCALL
A546	ATLAS DRYWALL	A620	AUTOCLAVE ENGINEERS, INC.
A547	ATLAS DOOR CORPORATION	A625	AUTOCON INDUSTRIES
A548	ALBECO CO	A626	AUTOMATIC CONTROL CO.
A549	ATLAS FOUNDRY AND MACHINE CO	A627	AUTOMATIC HANDLING SYSTEMS
A550	ATLAS INDUSTRIAL MANUFACTURING COMPANY	A628	AUTOMATION ENGG CO INC
A551	ATLAS INDUSTRIES	A629	AUTOMATIC INDUSTRIES INC.
A552	ATLAS VALVE	A630	AUTOMATIC MANUFACTURING CO.
A553	ARCO MECHANICAL EQUIPMENT SALES	A640	AUTOMATION INDUSTRIES INC.
A554	AIR FILTER CONTROL	A641	AUTOMATION DISPLAYS INC
A555	ATMOSPHERIC SCIENCES, INC.	A644	AUTOMATION MFG & SERVICE INC.
A556	ALPHA-LARM (NOCHIKI AMERICA CORP)	A645	AUTOMATION PRODUCTS, INC.
A557	ATOMATIC MANUFACTURING CO.	A650	AUTOMATION/CONAM
A558	ANBAC INDUSTRIES INC	A655	AUTOVENT FAN
A559	AQUA ENGINEERING CO INC	A656	AUTOWEIGH INC.
A560	ATOMERGIC CHEMETALS CO.	A659	AYEL CORP.
A561	AIR MONITORING INC	A660	AVCO CORP.-TULSA OPERATION
A562	ARDILLO CORP	A661	AVERY, F. E. CORPORATION
A565	ATOMIC DEVELOPMENT CORP.	A662	AVTEK CORPORATION

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A563	AMISCO CORPORATION	B043	BALSBAUGH INC.
A664	AWC TEXAS INC.	B044	BALDWIN FILTERS CO.
A665	AXIAL CORP.	B045	BAILEY METAL COMPANY
A666	AXION CORP.	B046	BAKER INSTITUTES INC.
A670	AYCOCK, INC.	B047	BAILEY, CHARLES M., COMPANY
A671	AYDIN MONITOR SYSTEMS	B048	BAILEY, WILLIAM, CO.
A680	AECO MECHANICAL CONTRACTORS INC.	B049	BALL MANUFACTURING, INC.
A700	ALLIED AIR PRODUCTS COMPANY	B050	BAIRD ATOMIC INC.
A701	ACHE ELECTRIC CORP.	B051	BALDWIN COMPANY
B001	B & B INSULATION INC.	B052	BALDAR
B002	B & B BUILDING SYSTEMS INC.	B053	BANNER IRON WORKS
B003	B & B ENGINEERING, INC.	B054	BALDWIN ASSOCIATES
B004	B & B INSTRUMENTS	B055	BAKER CASTOR OIL CO.
B005	B-W CONTROLLER	B056	BAKER, HUGH J. & CO.
B006	B & W ST. PETERSBURG ENGINEERING	B057	BAKER MFG CO.
B007	BALCOCK-DAVIS ASSOCIATES, INC.	B058	BALFOUR ROLLING STEEL DOORS
B008	B/W CONTROLS INC.	B059	BALSBAUGH LABORATORIES INC.
B009	B-D-R ENGINEERING CORP.	B060	BALDOR ELECTRIC
B010	BABCOCK & WILCOX CANADA LTD.	B061	BALDWIN ROVE & SONS, INC.
B011	B.H. IND	B062	BALDWIN - LIMA - HAMILTON CORP.
B012	BALTIMORE AIRCOIL CO INC	B063	BALTIMORE GAS & ELECTRIC COMPANY
B013	BJ-HUGHES INC (HUGHES TOOL CO)	B064	BARBER, W. H., CHEMICAL CO.
B014	BABCOCK & WILCOX POWER GENERATION	B065	BARKER, JAMES J. CONSULTING SERVICE
B015	BABCOCK & WILCOX COMPANY	B066	BARBER-COLMAN CO.
B016	B & G MFG CO	B067	BARBER MFG. COMPANY
B017	BAXMAN GRAVEL CO INC	B068	BARBER-GREENE CO.
B018	BAY PNEUMATIC INC	B069	BARKSDALE COMPANY
B019	BISHOP TUBE CO	B070	BARKSDALE VALVE COMPANY
B020	BABCOCK & WILCOX TUBULAR PRODUCTS	B071	BARCLAY WHOLESALE DIV
B021	BLAIN-MARTIN CO INC	B072	BARMONT CORP.
B022	BALL CORP	B073	BARNANT CORP.
B023	BAR-BROOK MFG DIV	B074	BARKSDALE CONTROLS DIV
B024	BLACKMORE & GLUNT INC	B075	BARNESBEY-CHENEY
B025	BABCOCK ELECTRONICS CORP.	B076	BARNES, JOHN, CORP.
B026	BARNES ENGINEERING COMPANY	B077	BARRETT-HAENTJENS CO.
B027	BROOKLYN THERMOMETER COMPANY, INC.	B078	BARD MFG COMPANY
B028	BACHMANN INDUSTRIES, INC.	B079	BARNSTEAD STILL & STERILIZER CO.
B029	BAKER-HAMILTON DIV.	B080	BARTON INSTRUMENT CO., DIV OF ITT
B030	BABCOCK-PERSTA	B081	BARTON INDUSTRIES
B031	BACON & VAN BUSKIRK GLASS CO.	B082	BARRON INDUSTRIES
B032	BACHARACH INSTRUMENT COMPANY	B083	BARRY BLOWER CO.
B033	BACON TANK & MFG CO.	B084	BARR-SAUNDERS INC.
B034	BADGER EXPANSION JOINT	B085	BASCO, INC.
B035	BADGER METER CO.	B086	BASF WYANDOTE CORPORATION
B036	BAGWELL COATINGS, INC.	B087	BASIC ENGINEERS
B037	BAHNSON SERVICE CO.	B088	BASIC IN FLOW CO.
B038	BAHNSON INDUSTRIAL AIR QUALITY DIV	B089	BARNSTEAD SYDRON CORP.
B039	BADALL CO.	B090	BASIC TECHNOLOGY, INC.
B040	BAILEY INSTRUMENT CO., INC.	B091	BANE NELSON, INC.
B041	BRAWNER PAPER COMPANY	B092	BASSICK
B042	BAILEY CONTROLS CO.	B093	BASLER ELECTRIC COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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B094	BATES & ROGERS CONSTRUCTION COMPANY	B157	BELOIT PASSAVANT CORPORATION
B095	BATES STEEL TRUSS	B159	BELL BOTTOM FOUNDATION CO.
B096	BASTIAN BLESSING	B160	BELL & GOSSETT
B097	BAS-TEX CORP.	B161	BELL CHEMICAL CO.
B098	BATTELLE MEMORIAL INSTITUTE	B162	BELL, J. F.
B099	BASELINKS INDUSTRIES, INC.	B163	BELL INDUSTRIES
B100	BATH IRON WORKS	B165	BELL AND HOWELL
B101	BAUMAN H D & ASSOCIATES INC.	B170	BELL, INC, F. W.
B102	BAUER BROTHERS CO.	B171	BELLOFRAM CORP
B103	BARNES, W. F. & JOHN	B175	BELLEFONTAINE BRIDGE
B104	BALSTON, INC. (BALSTON FILTER PRODUCTS)	B176	BELLINGHAM SUPPLY
B105	BAUSCH & LOMB, INC.	B177	BELLOWS-VALAIR
B106	BANKS ENGINEERING COMPANY, INC.	B178	BELILOVE CO.
B107	BALMAC INC	B179	BELLOWS INTERNATIONAL
B109	BAY CITY MACHINE	B180	BELMONT IRON
B110	BAY CITY TRACTION	B181	BELMONT PACKING & RUBBER CO.
B111	BREDA TERMOMECCANIC S.P.A.	B185	BELMONT SMELTING & REFINING WORKS, INC.
B112	BADGER-PONHATTEN	B187	BEN BRUNDAGE CO.
B113	B&K INSTRUMENTS INC	B190	BENDER WARRICK
B114	BALCO INC	B195	BENDIX AVIATION
B115	BAYLEY, WH.	B200	BENDIX CORP., THE
B116	BAYOX INC.	B202	BENDIX PROCESS INSTRUMENTS DIV
B117	BARCLY, ROBERT INC	B203	BENFIELD ELECTRIC
B118	BIDDLE INSTRUMENTS	B205	BENJAMIN ELEC MFG CO
B119	BISHOP ELECTRIC	B206	BENNETT INDUSTRIES, INC.
B120	BEACH-RUSS CO.	B207	BENRUS TECHNI POWER
B121	BEARD AND LA BAUYE	B208	BENTLEY NEVADA
B122	BEARD-GARNER	B209	BERGEN-PATTERSON PIPE SUPPORT CORPORATION
B123	BEACON SUPPLY CO.	B210	BERGAN & PATTERSON
B124	BEARD-YARDNER INC.	B211	BERGEN IRON & ENG COMPANY
B125	BEAUMONT MFG	B212	BERGEN PIPE SUPPORT CORPORATION
B126	BEAUMONT BIRCH CO.	B213	BERKLEY PUMP CO.
B127	BEARING HEADQUARTERS INC	B214	BERKE CONCRETE ASSESSORIES INC.
B128	BAKER FILTRATION CO	B215	BERKELEY NUCLEONICS CORP.
B130	BECHTEL CORP.	B216	BERKELEY STEEL CONSTRUCTION CO.
B133	BECKMAN/BERKLEY	B217	BERLIN CHAPMAN
B134	BECK & CORBITT CO.	B218	BERLIN STEEL CO.
B135	BECKMAN INSTRUMENTS, INC.	B219	BERT EXELROD & CO.
B136	BECK, HAROLD & SONS	B220	BERTRAM CO, H.P.
B137	BEEDER BROS INC	B221	BERND-WALLACE & ASSOCIATES
B138	BEEVER, ALBERT JR. CO.	B222	BERTAN ASSOCIATION INC.
B139	BEEMEE INTERNATIONAL	B223	BERTHOLD, GUSS--ELECTRIC CO.
B140	BEFFEL LIGHTING	B224	BERNAD'S BUSINESS INTERIORS
B141	BEETLE/JUSTIN PLASTICS INC	B225	BEST ELECTPO CONTROLS
B145	BELCO POLLUTION CONTROL CORP.	B228	BETHEA NATIONAL CORP
B146	BELCHER-HOPPE ENGINEERING INC.	B229	BETA PRODUCTS INC.
B147	BELDEN CORPORATION	B230	BETA CORP.
B150	BELPAB/BAILEY METER CO.	B231	BETHEA CO. INC.
B154	BELOIT POWER SYSTEMS	B232	BETHLEHEM FOUNDRY AND MACHINE CO.
B155	BELPAB, INC.	B233	BETHLEHEM FABRICATORS, INC.
B156	BELFORT INSTRUMENT CO.	B234	BEVERLY STEEL CORP

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CODE	VENDOR NAME	CODE	VENDOR NAME
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B235	BETHLEHEM STEEL	B321	BLOCK IRON & SUPPLY CO., DIV
B236	BETE FOG NOZZLE INC	B322	BLISS & LAUGHLIN STEEL
B237	BETTIS CORPORATION	B323	BLISS COMPANY
B238	BEVCO ENGINEERING, INC.	B324	BLISS ELECTRIC CO.
B239	BIEDERMAN, A. INC	B325	BLICKMAN, INC., S.
B240	BIACH INDUSTRIES, INC.	B326	BLOUNT BROTHERS CONSTRUCTION COMPANY
B241	BETTS SPRING CO INC	B327	B. M. COMPANY
B242	BIGGE DRAYAGE CO.	B328	BLUE, JOHN CO DIVISION-SUBSCRIPTION TV
B243	BIG JOE MANUFACTURING CO.	B329	BLUM CRAFT OF PITTSBURGH
B244	BIDDLE, JAMES G. CO.	B330	BLUMF, JOHN A. & ASSOC.
B245	BICRON CORP.	B331	BOBFS & COMPANY
B246	BIG GENIE CORPORATION	B332	BO'RDMAN CO
B247	BIGGE CRANE	----	BOBRICK TECHNICAL DATA
B248	BIG THREE INDUSTRIES	B334	BOCK LAUNDRY MACHINE CO.
B249	BIG FOUR MFG INC.	B335	BODENDIECK TOOL
B250	BIF	B336	BOLDT, O.J. CONST'CTION CO.
B251	BIG FOUR WELDING AND EQUIPMENT	B337	BODENBENDER & SHA' ER INC.
B252	BIG JOE INDUSTRIAL TOOL CORP.	B338	BODINE ELECTRIC CO.
B253	BILCO COMPANY, THE	B339	BOBRICK WASHROOM EQUIPMENT, INC.
B254	BIMMINGS CONSTRUCTION COMPANY	B340	BOHNG COMPUTER SERVICES, INC.
B255	BINDICATOR CORP.	B341	BOHNG CO., THE
B256	BILT RITE STEEL BUCK CORP.	B342	BOHN TOOL & DYE CO
B257	BI RA SYSTEMS INC	B343	BOHN ALUMINUM-BRASS CO.
B260	BINGHAM PUMP CO.	B344	BON BROTHERS CONSTRUCTION COMPANY
B265	BINGHAM-WILLAMETTE CO.	B345	BONNEY FORGE DIV.
B267	BINKLEY COMPANY, THE	B346	BOLT, BERANEK & NEWMANN, INC.
B270	BIO-RAD LABORATORIES	B347	BORGES & MAHONEY, INC.
B271	BIO MARINE INDUSTRIES	B348	BORCHART, R. C., ENGINEERING & SUPPLY, INC.
B275	BIONUCLEAR	B349	BORDEN COMPANY
B276	BIRD ELECTRONICS CORP.	B350	BORG-WARNER CORP.
B277	BIRD MACHINE	B351	BORDEN METAL PRODUCTS COMPANY
B278	BIRMINGHAM CLAY PRODUCTS CO.	B352	BOGART & CARLOUGH CO
B279	BIRMINGHAM ORNAMENTAL IRON	B353	BOCK IND
B280	BISHOPIC PRODUCTS CO., THE	B354	BOLAND ELECTRIC SUPPLY INC
B281	BIOSPHERICS INC	B355	BORIDE PRODUCTS, INC.
B283	BLACK & DECKER	B356	BORRMAN, R.E. STEEL CO.
B285	BLACK & VEATCH CONSULTING ENGINEERS	B357	BOSTON EDISON COMPANY
B290	BLACK-SIVALLS-BRYSON	B358	BRANDELES, H. J. CORP
B295	BLACK, SIVALLS & BRYSON, INC.	B359	BOLTFORM PRODUCTS
B300	BLACKBURN-JASPER CORP.	B360	BOSTON GEAR WORKS
B305	BLACKBURN, INC., P. W.	B361	BOSCO CO.
B310	BLACKHER PUMP	B362	BOTTNER-SCHILDE-HAAS
B312	BLACKSTONE CORPORATION	B363	BOWMAN, J.H. COMPANY, INC.
B313	BLANCHARD CO.	B364	BOWMAN, JOHN W. & ASSOCIATES
B314	BLAW-KNOX COMPANY	B365	BOSTON INSULATED WIRE & CABLE CO.
B315	BLAW-KNOX CHEMICAL PLANTS, INC.	B366	BOYCE MACHINERY CORP.
B316	BLAW-KNOX EQUIPMENT, INC.	B367	BOSTON METAL DOOR CO., INC.
B317	BLAER, J.J. CONSTRUCTION COMPANY	B368	BOSTON PIPE & FITTINGS, INC.
B318	BHK SVSS INC	B369	BOSTROM-BERGEN METAL PRODUCTS
B319	BLUE RIVER ALLOY INC	B370	BOVEE & CRAIL CONSTRUCTION CO.
B320	BLH ELECTRONICS, INC.	B371	BOURNS CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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B372	BOWEN CO., THE	B426	BRISTOL ENGG CO
B373	BOWMAN CONSTRUCTION PRODUCTS	B430	BROOKLINE INSTRUMENT CO., INC.
B374	BOUSER-MORNER TESTING LABS	B435	BROOKS & PERKINS, INC.
B375	BOWSER IND	B436	BROOKS PRODUCTS INC.
B376	BRADY CO.	B440	BROOKS INSTRUMENTS COMPANY
B377	BRAD & MC CLUNG-PACE	B445	BROOKS ROTAMETER
B378	BOWLEN, J.P. COMPANY	B446	BROWN & BROWN MACHINE CO.
B379	BRADLEY IRON WORKS, INC.	B448	BROWN, JOHN S, CO.
B380	BRADLEY CORPORATION	B449	BUD ELECTRONIC COMPONENTS
B381	BRAMAN-DOW CO.	B450	BROWN & ROOT INC.
B382	BRADLEY, H.R., CO.	B453	BROWN & SHARPE
B383	BRANDEN STEEL CORP.	B455	BROWN BOVERI
B384	BRANDT INDUSTRIES, INC.	B456	BROWN & LOVE ELECTRIC CO.
B385	BRAM METALLURGICAL-CHEMICAL CO.	B457	BROWN, D.P., AND COMPANY
B386	BRAND INDUSTRIAL SERVICES, INC.	B460	BROWN FINTUBE CO.
B387	BRAND INSULATION INC.	B465	BROWN INSTRUMENT DIV
B389	BRAND REX CO.	B468	BROWN & LAMBRECHT
B390	BRANDYWYNE INDUSTRIES, INC.	B470	BROWN MINNEAPOLIS TANK & FABRICATING CO.
B391	BRANT CONSTRUCTION COMPANY	B475	BROWN, DAYTON T. INC.
B392	BRASCH MANUFACTURING CO., INC.	B476	BROWNYARD METALS CORP.
B393	BREMEN MANUFACTURING COMPANY, INC.	B477	BROWNE-DAVIES ELECTRONICS CORP.
B394	BROADLINE CORP.	B478	BRULE, C. E. & E. INC. (INCINERATORS)
B395	BRAUN & CO., C.F.	B480	BROWNE-MORSE
B396	BREARD-GARDNER INC.	B481	BROWNING CO.
B397	BRAGAR, NORMAN PROD CO INC	B482	BRUCKER, M., CO.
B398	BRAD FOOTE GEAR WKS INC	B483	BRUNNER MFG COMPANY
B400	BRAUNLICH-ROESSLER COMPANY	B484	BRYANT ELECTRIC
B401	BRENCO INC.	B485	BRUCE GM DIESEL, INC.
B402	BRELIANT COMPANY	B486	BRUSH WELLMAN INC.
B403	BREWER ENGINEERING LABORATORIES, INC.	B487	BS & B SAFETY CO.
B404	BRICE ENGINEERING CO, INC.	B488	BTC, INC.
B405	BRICK-HAYES CO.	B490	BTU ENGINEERING CORP..
B406	BREWER-TITCHENER CORP.	B491	BSAF WYANDOTE
B407	BRIDGEPORT BRASS CO.	B495	BUCHANAN STEEL PRODUCTS
B408	BRIDGEPORT TESTING	B499	BUD ELECTRONIC COMPONENTS
B409	BRIDGEPORT MACHINES-DIV OF TEXTROM INC.	B500	BUDA DIV
B410	BRIDGES ELEC	B501	BUILDERS METAL SUP INC
B411	BRIGGS WEAVER INDUSTRIAL SUPPLY	B502	BUTEN, W.J. ROOFING & SHT METAL INC
B412	BRIGGS ELECTRIC SWITCHBOARD	B503	BUBLITE INC
B413	BRIGGS FILTRATION	B504	BUEHLER TANK & WELDING WORKS
B414	BRIGHTON CORPORATION	B505	BUEHLER CORP., THE
B415	BRISTOL	B506	BYRNES, E.F. SALES CORP
B416	BRISCOE MFG CO.	B510	BUELL ENGINEERING CO.
B417	BRISTOL STEEL & IRON WORKS INC.	B511	BUELL EMISSION CONTROL DIV
B418	BRILL ELECTRONICS PRODUCTS	B513	BUFFALO ELECTRIC CO.
B419	BRISKY ASSOCIATES, INC.	B515	BUFFALO FORGE COMPANY
B420	BROBECK & ASSOCIATES, WILLIAM M.	B516	BUFFALO METER CO.
B421	BRISTOL-BABCOCK INSTRUMENTS (DIV ACCO IND)	B517	BUFFALO PUMPS
B422	BRITISH STEEL CORP INC	B520	BUFFALO TANKS
B423	BROOKMAN CO INC	B522	BUFFALOW'S IND'L REFRIG'N SERVICE
B425	BROKAW, R.T.	B525	BUILDERS-PROVIDENCE

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CODE	VENDOR NAME	CODE	VENDOR NAME
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B526	BUILDERS MFG COMPANY	C012	CLIMATRONICS CORP
B530	BUILDERS, ROY L.	C013	CARRIER BOCK CO
B532	BUILDING FASTENERS INC.	C014	CNS ELECTRONICS CORP
B533	BUILDING FASTENERS & TOOL CO.	C015	C-COR ELECTRONICS, INC.
B534	BULK SYSTEMS	C016	CALIFORNIA POLYTECHNIC
B535	BULLDOG BOLT	C017	CALIFORNIA TANK & MFG CO
B536	BULLARD, E. D. CO	C018	CALIFORNIA ELECTRIC SUPPLY CO.
B539	BULTRMA DOCK & DREDGE COMPANY	C019	CALIFORNIA ALLOY CO.
B540	BULLDOG ELEC PROD DIV	C020	C-E IN-VAL-CO
B541	BUMSTEAD, WOOLFORD & RILEY	C021	CABOT CHRMTROL
B542	BUNKER HILL	C022	CABLE KING
B543	BUNNELL CO, J.H.	C023	CALCON
B544	BUNKER RAMO CORP.	C024	CADDY CO.
B545	BUNTING, BRASS & BRONER CO.	C025	CADILLAC MACHINE
B546	BUNCE CORPORATION, THE	C026	CALNEC
B550	BURGESS BATTERY	C027	CALIFORNIA FILTER - CALFICO
B555	BURGESS INDUSTRIES	C028	CAJON CO.
B559	BURKE CO., THE	C029	CAISSON CORPORATION
B560	BURGESS-MANNING	C030	CALATOMIC, INC.
B561	BURKE CONCRETE ACCESSORIES, INC.	C031	CALIFORNIA BIONUCLEAR CORP.
B562	BURLING	C032	CALCOR SPACE FACILITY
B563	BURLING INSTRUMENT CO.	C033	CALGO CORP
B564	BURKS PUMPS	C034	CALIFORNIA INSTRUMENT CO.
B565	BURNDY CORP.	C035	CALUNET & HELCA CORP.
B566	BURNER MANAGEMENT CO.	C036	CALIMATIC
B567	BURNS & NOVIA	C037	CALDWELL ENGINEERING COMPANY
B568	BURT MFG CO.	C038	CALUMET FLEXICORE CORPORATION
B569	BUSMANN MFG (DIV OF MCGRAW-EDISON)	C039	CALUMET TRUCKING COMPANY
B570	BURNS & ROE, INC.	C041	CALUMET CONSTRUCTION CORP.
B571	BURNS ELECTRONIC SECURITY SERVICE	C042	CALOCERINO & SPINA
B572	BURNS ENGINEERING	C043	CAL PACIFIC FABRICATING CO.
B573	BURR BROWN	C044	CAM INDUSTRIES, INC.
B574	BUSCH COMPANY	C045	CAMBRIDGE FILTER CORP.
B575	BUTLER & LAND INC.	C046	CALPICO INC.
B576	BURREN TRANSFER	C047	CAMBRIDGE INSTRUMENT CO.
B577	BURTON	C048	CALVERT COMPANY INC., THE
B578	BYITT CRINNEL COMPANY	C049	CALAVAR CORP
B579	BUSHMAN EQUIPMENT CO.	C050	CAMBRIDGE NUCLEAR RADIOPHARMACEUTICAL CORP
B580	BYRON JACKSON PUMPS, INC.	C051	CALIFORNIA TOOL & MACHINE WORKS
B581	BUXTON MFG CO.	C052	CAMBRIDGE THERMONIC CORP
C001	C & C OXYGEN CO	C053	CARRIER ORHLER
C002	C. H. CONTROL	C054	CAMPBELL, THOMAS J. CO
C003	C.B.P. ENGINEERING CORP.	C055	CAMCO FITTINGS CO.
C004	C.S.C. INC.	C056	CASTLE CONTROLS INC
C005	C. J. ENTERPRISES	C057	CAMERADIO COMPANY
C006	C. U. SERVICES	C058	CHROMALLOY MFG INC
C007	CBM STEEL CORP	C059	CNA CONTROLS
C008	CARLYLE COMPRESSOR CO	C060	CAMERON IRON WORKS, INC.
C009	COOKE, G. H. ASSOC	C061	CAMPBELL, BARBER, LAMBETH & ASSOC
C010	C.V.I.	C062	CAMPLEX CONTROL
C011	CAMCO INC	C063	CAMPBELL CONSTRUCTION

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CODE	VENDOR NAME
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C064	CANADIAN GENERAL ELECTRIC CO., LTD.
C065	CANADIAN STEEL FOUNDRIES
C066	CANADIAN OHIO BRASS CO. LTD.
C067	CANADIAN INGERSOLL-RAND, LTD.
C068	CANADIAN CONTROLLERS INC
C069	CANADIAN BLOWER & FORGE
C070	CANBERRA INDUSTRIES, INC.
C071	CALUMET STEEL CO
C072	CANDLER-RUSCHE, INC.
C073	COLUMBIA SPECIALTIES CO
C074	CAPITOL STEEL INC
C075	CANNON ELECTRIC - IIT
C076	CHRONO-LOG CORP
C077	CHALCO ENGG CORP
C078	CAN & SAUL STEEL CO.
C079	CANON, OLIVER B. SONS. THE
C080	CANNON TOOL CO.
C081	CANONIE CONSTRUCTION COMPANY
C082	CAPE ANN TOOL CO.
C083	CANTON STEEL FABRICATORS
C084	CANTEX INDUSTRIES
C085	CAPINTEC, INC.
C086	CAPITAL FIRE EQUIPMENT CO.
C087	CAPITAL CONTROLS CO.
C088	CAPITOL LIGHT & SUPPLY CO.
C089	CAPITOL CONCRETE PRODUCTS CO., INC.
C090	CAPITOL MANUFACTURING CO.
C091	CAPITAL CITY FENCE CO., INC.
C092	CALIFORNIA SCREW
C093	COAST METAL CRAFT
C094	COMMERCIAL PLASTIC & SUPPLY
C095	CAPITOL PIPE & STEEL PRODUCTS, INC.
C096	CAPITAL STEEL & IRON COMPANY
C097	CONDOR INTERNATIONAL
C098	CAPITAL WESTWARD INC.
C099	COTTA TRANSMISSION CO
C100	CAR-BEE INC
C101	CLAROSTAT MFG CO INC
C102	CARFARELLI BROS INC
C103	CAR-MON PRODUCTS INC.
C105	CARBOLINE CO.
C106	CAPITAL STEEL CORP-OK CITY(CSI INTL)
C107	CAPITAL STEEL CORP-NEW YORK
C110	CARBON STEEL PRODUCTS CORP
C114	CARBORUNDUM CO., THE (REFRACTORS DIV)
C115	CARBORUNDUM CO.
C116	CARDINAL INDUSTRIAL
C117	CARDINAL SCALE CO.
C118	CARDINAL GLASS CO.
C119	CARDINAL INDUSTRIES
C120	CARD KEY SYSTEMS

CODE	VENDOR NAME
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C125	CARDOX CORP.
C130	CARGOCAIRE ENGINEERING CORP.
C131	CARNEY & CO. INC.
C132	CALISLE TIRE & RUBBER CO.
C133	CARLE INSTRUMENTS, INC.
C134	CARLON PRODUCTS
C135	CARLSON, INC., G. O.
C136	CARNES CORP.
C137	CARMAN INDUSTRIES, INC.
C138	CAROLINA POWER & LIGHT COMPANY
C139	CAROLINA INDUSTRIAL PIPING
C140	CARPENTER TECHNOLOGY CORP.
C141	CARPENTER STEEL
C142	CARPENTER WELDING & MACHINE CO.
C143	CARR CO.
C144	CARNES CO. DIV (WEHR CONSTRUCTION)
C145	CARRICK ENGINEERING
C146	CARPENTER RIGGING & SUP CO
C147	CARRIER AIR CONDITIONING CO.
C150	CARRIER CORP.
C151	CARRIER MFG. CO., INC.
C152	CARTER-DAY COMPANY
C153	CARTER AIR CONDITIONING COMPANY
C154	CARRON & COMPANY
C155	CARTER MOTOR CO.
C157	CARTER-WATERS CORP.
C158	CARVER PUMP COMPANY
C159	CUSTOM CONTROL PANEL
C160	CASCADE PUMP
C161	CASE INTERNATIONAL COMPANY
C162	CASH, A. W.
C163	CASALE IND., INC.
C164	CASHCO INC.
C165	CATALYTIC INC.
C166	CAVAGNACO, N. J.
C167	CATALYTIC PRODUCTS INTERNATIONAL
C168	CATCHING ENGINEER
C169	CELANESE PIPING SYSS INC
C170	CATERPILLAR TRACTOR
C171	CHATHODIC PROTECTION SERVICE
C172	CBI NUCLEAR COMPANY
C173	C & D BATTERIES, DIV OF ELTRA CORP.
C174	C-E AIR PRE-HEATER
C175	CECO STEEL PROD CORP.
C176	CECO CORP (FORMERLY C175)
C177	C.E. PROCESS EQUIPMENT
C178	CEILCOTE CO., THE
C179	CELLO INDUSTRIES INC.
C180	CELNSCO
C181	CELOTEX CORPORATION, THE
C182	CENTER - LINE INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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C183	CENTRALAB	C254	CHAPIN & CHAPIN, INC.
C184	CENTRAL PIPE & FITTING	C255	CHAPMAN VALVE & MFG
C185	CENTRAL RESEARCH LABORATORIES, INC.	C256	CHAPMAN DIV OF CRANE CO.
C186	CENTRAL ENGINEERING CONSTRUCTION COMPANY	C257	CHASE BRASS AND COPPER CO.
C187	CENTRAL STEEL COMPANY	C258	CHASE NUCLEAR DIVISION
C188	CENTRAL IRON MANUFACTURING	C259	CHASE-SHAMNUT COMPANY
C189	CENTRAL WIRE & IRON WORKS	C260	CHATILLON, JOHN & SONS
C190	CENTRAL SCIENTIFIC CO.	C261	CHAPPLE COMPANY
C191	CENTRAL STATES PIPE	C263	CHELSEA FANS & BLOWERS
C192	CENTRAL STEEL AND WIRE	C265	CHATTANOOGA BOILER AND TANK CO.
C193	CENTRAL SWITCHBOARD CORPORATION	C266	CHECK-ALL-VALVE
C194	CENTRI MASTER	C267	C.H.C. FABRICATION CORPORATION
C195	CENTRIPIX DIV	C268	CHEMELEX CORP.
C196	CENTRAL TEXAS IRON WORKS	C269	CHEMINER INC.
C197	CENTRAL ENGINEERING & SUPPLY CO.	C270	CHEM-NUCLEAR SYSTEMS, INC.
C198	CENTRONICS CORP.	C273	CHEMGROUT INC.
C199	CENTRAL COAST LABORATORIES	C275	CHEM-TROL CORP.
C200	CENTURY ELECTRIC	C277	CHEMICAL AND POWER PRODUCTS, INC.
C201	CENTRAL LOUISIANA ELECTRIC COMPANY	C280	CHEMAPEC, INC.
C202	CENTURY INSTRUMENTS	C281	CHEMTROL CORPORATION
C203	CENTRAL ILLINOIS PUBLIC SERVICE COMPANY	C285	CHEMETRON CORP.
C204	CENTRAL POWER & LIGHT COMPANY	C286	CHEMETRON FIRE SYSTEMS
C205	CERADYNE, INC.	C287	CHEMNE CONTRACTING COMPANY
C206	CENTRAL ILLINOIS LIGHT COMPANY	C288	CHESTER HOIST DIV (MONOGRAM IND INC)
C207	CENTRAL SUPPLY CO., INC.	C290	CHEMICAL SEPARATIONS CORP.
C208	CENTURY FENCE CO	C291	CHEVRON USA, INC.
C209	CENTRAL CONTROLS CO INC	C292	CHICAGO & ILLINOIS MIDLAND RAILWAY COMPANY
C210	CERAMASEAL, INC.	C293	CHARCOAL SVSS CORP
C211	CENTRAL INDIANA HARDWARE CO INC	C294	CHICAGO FAULT COMPANY
C212	CHICAGO CONVEYOR CORP	C295	CHEMIQUIP PRODUCTS CO., INC.
C215	CERAMCO INC., CHEMISTS	C296	CHESAPRAK & OHIO RAILROAD
C217	CERAMIC COOLING TOWER CO.	C297	CHEMPRO SEALOL
C220	CERAMTEC INDUSTRIES, INC.	C298	CHRYSLER CORP.
C222	CERRO WIRE & CABLE CO.	C299	CHICAGO BOILER CO.
C223	CERTAIN-TEND SAINT GORAIN INSULATING CO.	C300	CHEMPUMP CORP
C224	CERTIFIED LABORATORIES, INC.	C301	CHICAGO BULLIT PROOF EQUIP CO.
C225	CERTIFIED RADIATION INSTRUMENT CO.	C302	CHICAGO VIBRATOR PRODUCTS CO.
C227	CF & I STEEL CORP.	C303	CIPPEWA INDUSTRIAL SALES CORP.
C230	CHAIN BELT	C304	CHICAGO METALLIC CORP.
C231	C AND H COMBUSTION	C305	CHEMTREE CORP.
C232	CHALLENGER METAL FABRICATORS	C306	CHESTERTON PACKING & SEALS
C233	CHALLENGE-COOK BROS.	C307	CHICAGO BLOWER CORP.
C234	CHALLENGE EQUIPMENT CORP.	C308	CHICAGO PNEUMATIC & TOOL CO.
C235	CHAMBERS, A. R. & SONS	C309	CHICAGO COMBUSTION AIR CORP.
C238	CHAMPION BLOWER & FORGE CO. INC.	C310	CHICAGO BRIDGE AND IRON COMPANY
C239	CHAMPION HOIST COMPANY	C311	CHICAGO FLUID POWER
C240	CHAMPION, INC.	C312	CHICAGO GUARANTEE COMPANY
C245	CHANCE, A. B.	C313	CHICAGO FITTING CORPORATION
C250	CHANDLER ENGINEERING CORP.	C314	CHICAGO FLY ASH
C252	CHAPPARRAL STEEL CO.	C315	CHICAGO HEATER CORP.
C253	CHAPIN-BANGS	C316	CHICAGO ELECTRIC COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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C317	CHICAGO ELECTRIC SUPPLY	C380	CLEMENT ELECTRIC
C318	CHICAGO HEIGHTS STEEL	C381	CLENTEX LTD.
C319	CHICAGO ORNAMENTAL IRON COMPANY	C382	CLEVELAND BEACON PRODUCTS
C320	CHICAGO PUMP	C383	CLEVELAND CONTROLS INC.
C321	CHICAGO PAINTING SERVICE	C384	CLEVELAND-ARMSTRONG CO.
C322	CHICAGO MINIATURE CO.	C385	CLEVELAND CRAN & ENGG
C323	CHICAGO STEEL TANK COMPANY	C386	CLEVELAND MIXER CORP.
C324	CHICAGO LOCK CO.	C387	CLEAR-COM INTERCOM SYSTEM
C325	CHICAGO SWRD MFG	C390	CLEVELAND PRECISION INDUSTRIES INC.
C326	CHICAGO TRANSPARENT, INC.	C395	CLEVELAND SWITCHBOARD CO.
C327	CHICAGO TUBE & IRON CO.	C400	CLEVELAND TRAMRAIL
C328	CHIKSAN TOOL COMPANY	C405	CLEVELAND VIBRATORS
C329	CHROM ALLOY-AMERICAN CORP.	C410	CLIMAX MOLYBDENUM CO. OF MICHIGAN
C330	CHISHOLM & HOORE MFG	C415	CLIMET INSTRUMENTS CO.
C331	CHOMTRON	C417	CLONTE, J.M., ASSOC.
C332	CHROMALOX ELECTRIC HEAT	C418	CLOW CORP.
C333	CHROMATICS CORP.	C419	CLOW WASTE TREATMENT DIV.
C334	CHRISTY PARK WORKS	C420	CLYDE IRON WORKS, INC.
C335	CHRONETICS INC.	C421	COAST INDUSTRIAL SUPPLY CO
C336	CINCINNATI AIR CONDITIONING COMPANY, THE	C422	COAST WELDING SUPPLY, INC.
C337	CINCINNATI GAS & ELECTRIC COMPANY	C423	COAST ENGINEERING LAB
C338	CIVES CORP.	C424	COATES ELECTRIC BOILER
C339	CIRCLE SEAL	C425	COBER ELECTRONICS INC.
C340	CLARAGE FAN	C426	COFFER LABS INC
C341	CITY STEEL CORP.	C427	COFFER CORP
C342	CLA VAL CO.	C428	COAST COUNTIES GLASS INC
C343	CINCINNATI FAN & VENTILATOR CO.	C429	CONTROL SPECIALISTS INC
C344	CINCINNATI MILACRON CO.	C430	COCHRAN CORP
C345	CLARE, C.P.	C431	COCHRANE ENVIRONMENTAL SYSTEMS
C346	CLARE RELAYS CO.	C432	COPPER & BRASS SALES INC
C347	CIVES STEEL CO.	C434	CODEX BOOK INC.
C348	CIRCLE FREEWAY GLASS CO.	C435	COCHRAN ELECTRIC CO.
C349	CHRISTENSEN WOODWORK INC.	C436	CODEL CONSTRUCTION COMPANY
C350	CLARK AND WHEELER ENGINEERING, INC.	C437	CORN CO.
C351	CLARIDGE PRODUCTS & EQUIPMENT, INC.	C438	COFFIN TURBO PUMP
C352	CHESTERTON, A.W. CO	C439	COGNAL INC.
C354	CLARK BROTHERS.	C440	COGSWELL
C359	CLARK CONTROL INC.	C441	COHN ELECTRONICS DIV
C360	CLARK CONTROLLER	C442	COHU ELECTRONICS
C365	CLARK COOPER	C443	COLDWELL-WILCOX CO.
C367	CLARK EQUIPMENT COMPANY	C444	COKER PUMP & EQUIPMENT COMPANY
C370	CLARK, FRED C.	C445	COL-X CORP.
C371	CLARK RELIANCE	C446	COLBY EQUIPMENT COMPANY
C372	CLAYTON MFG CO.	C447	COLE ENGINEERING INC.
C373	CLAYTON AUTOMATIC VALVE CO.	C448	COLE-PARNER INSTRUMENT CO. (SEE C451)
C374	CLAUSING CORP.	C449	COLEMAN, W. B.
C375	CLEARING SMELTING CORP	C450	COLEMAN SYSTEMS
C376	CLEAVER-BROOKS	C451	COLE-PALKER INSTRUMENT CO. (SEE C448)
C377	CLSCO PNEUMATIC	C452	COLLIER CONSTRUCTION CO.
C378	CLEREMAN MACHINE TOOLS	C453	COLLYER INSULATED WIRE CO.
C379	CLENTEX CORROSION & CONTROL EQUIP & SUPPLY	C454	COLIN & ROBERTS

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CODE	VENDOR NAME	CODE	VENDOR NAME
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C455	COLLINS & ASSOC., DON L.	C524	CONDIT CONSTRUCTION PRODUCTS INC.
C456	COHERENT, INC.	C525	CONDIT WORKS, A-C MFG
C457	COLEMAN, J.B., CO.	C526	CONNECTICUT PLUMBING
C458	COLE-FLEX CORP.	C527	CONNECTICUT YANKEE ATOMIC POWER CO.
C460	COLONIAL ELEC PROD	C528	CONNOR ENG. CORPORATION
C462	COLONIAL KOLINITE CO.	C529	CONNECTICUT INVESTMENT CASTING CORP.
C463	COLONIAL MACHINE COMPANY	C530	CONOFLOW CORP.
C464	COLONY INC	C531	CONBRACO INDUSTRIES, INC.(CONSOL BRASS CO)
C465	COLORADO RESEARCH CORP	C532	CONNORS STEEL CO
C466	COLORADO STATE UNIV ENGINEERING RESCH LAB	C533	CONCRETE PIPE & PRODUCTS CORP
C470	COLT INDUSTRIES, INC.	C535	CONRAC CORP.
C475	COLTS PATENT FIRE ARMS	C536	CON-RAD DIV U.S. INDUSTRIES
C479	COLUMBUS DIE TOOL & MACHINE COMPANY	C537	CONRY R. CONTRACTORS
C480	COLUMBIA ELECTRIC	C539	COMSIP DELPHI INC.
C484	COLUMBIA PIPE & SUPPLY CO.	C540	CONS ASHCROFT HANCOCK
C485	COLUMBIA RESEARCH CORP.	C541	CONSLER CORP
C486	COLUMBUS TESTING LABORATORIES, INC.	C542	COX INSTRUMENT (LYNCH CORP)
C487	COMBINATION PUMP VALVE CO.	C545	CONS SAFETY VALVE DIV
C490	COMBUSTION ENGINEERING, INC.	C550	CONSECO
C491	COMBUSTION EQUIPMENT ASSOCIATION OF CANADA, LTD.	C551	CONSOER, TOWNSEND & ASSOCIATES
C492	COMET INC.	C552	CONSTRUCTION SUP & ERECTION INC
C493	COMFORT CONTROL	C553	COPELAND CORP
C494	COMBS INDUSTRIES, INC.	C554	CONSOLIDATED SPECIALTY MFG.
C495	COMMERCIAL FILTERS CORPORATION	C555	CONSOLIDATED BALERS
C496	COMMERCIAL STAMPING & FORGING, INC.	C556	CONSOLIDATED BOLT AND NUT COMPANY
C497	COMMANDER STEEL BUILDING SALES CO.	C557	CONSOLIDATED BAILING-MACHINE COMPANY
C498	COMPUTER PRODUCTS, INC.	C558	CONSOLIDATED CONSTOCK COMPANY
C500	COMMONWEALTH ASSOCIATES INC.	C559	CONSOLIDATED ELECTRICAL DISTRIBUTORS
C501	COMMONWEALTH ELECTRIC CO.	C560	CONSOLIDATED CONTROLS CORP.
C502	COMMONWEALTH EDISON COMPANY	C561	CONSOLIDATED ELECTRIC CO.
C503	COMSIP CUSTOM LINE CORP.	C562	CONSOLIDATED EDISON COMPANY
C504	COMMUNICATIONS & CONTROL CO.	C563	CONSOLIDATED ELECTRODYNAMICS CORP.
C505	COMMUNICATION EQUIP	C564	CONSOLIDATED KINETICS CORP.
C506	COMPUDYNE CORP.	C565	CONSOLIDATED ENERGY SERVICES, INC.
C507	COMSTOCK, L. K. , CO	C566	CONSOLIDATED LIGHTING CO.
C508	CONCRETE PLANK COMPANY, INC.	C567	CONSOLIDATED SAFETY RELIEF VALVES
C509	COMPOSITE PRODUCTS INC.	C568	CONSOLIDATED VALVE CORP.
C510	CONAM INSPECTION INC.	C569	CONSOLIDATED X-RAY SERVICES CO.
C511	COMPRESSOR ENGINEERING CO.	C570	CONST MACH
C512	CONCRETE PRODS INC	C571	CONSULTING ENGINEERING SERVICES
C513	COLONIA CONSTRUCTION PROD INC	C572	CONSTRUCTION MANAGEMENT ORGANIZATION
C514	CONNECTRON, INC.	C573	CONSTRUCTION SPECIALITIES, INC.
C515	CONAX CORP.	C574	CONSTRUCTION PRODUCTS CORP.
C516	CONCO ENGINEERING WORKS	C575	CONSUMERS POWERS COMPANY
C517	CONE DRIVE DIVISION	C576	CONSTRUCTION ENGINEERING CONSULTING, INC.
C518	CONDE MILKING MACHINE COMPANY	C577	CONTINENTAL PRODUCTS
C519	CONERCAN	C578	CONTINENTAL ELECTRIC SERVICE CORP.
C520	CONDEC CORP.	C579	CONTAMINATION & CONTROL INC.
C521	CONDE PUMP COMPANY	C580	CONTAINER RESEARCH CORP.
C522	CONCRETE TIE, INC.	C581	CONTINENTAL AIR FILTERS
C523	CONN-TROLS INC.	C582	CONTINENTAL CONVEYOR EQUIPMENT COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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C583	CONTINENTAL BEARING RESEARCH CORPORATION	C634	COOPER-BESSEMER CO.
C584	CONTINENTAL DRILLING CO.	C635	COPES-VULCAN, INC.
C585	CONTINENTAL BOILER	C636	COPPERWELD STEEL, INC.
C586	CONTINENTAL CONCRETE PIPE CO.	C637	COOK, LOREN CO.
C587	CONTINENTAL EQUIP CO.	C638	COOK IRON STORE
C588	CONTINENTAL ELECTRIC CO, INC.	C639	COPPER FITTINGS CO., INC.
C589	CONTINENTAL MOTORS CORPORATION	C640	COPPUS ENGINEERING CORP.
C590	CONTINENTAL OIL CO.,	C641	COOK
C591	CONTINENTAL MACHINES INC.	C642	CORDON INT'L CORP.
C592	CONTINENTAL STEEL CO.	C643	CORROSIONERING INC. - SARAN CENTURY
C593	CONTINENTAL SALES & ENGINEERING CO.	C644	CORKEN PUMP CO.
C594	CONTINENTAL DISC CORP.	C645	CORY, CHARLES & SON
C595	CONTINENTAL WIRE & CABLE CORP.	C646	COOKSON
C596	CONTRAVES-GOERE CO.	C647	COTTRELL-RESEARCH-HAMMON
C597	CONTRACTING & MATERIALS CO.	C648	COWAN
C598	CONTROL ASSOCIATES, INC.	C649	COUCH
C599	CONTROL CHIEF CORPORATION	C650	COSMODYNE
C600	CONTROL COMPONENTS	C651	COULTER STEEL AND FORGE CO.
C601	CONTROL EQUIPMENT COMPANY	C652	CORWIN & COMPANY, INC.
C602	CONTINENTAL-FREMONT COMPANY	C653	COURTNEY ENG. CO.
C603	CONTINENTAL HELLER CORP	C654	CRAFTWELL
C604	COOPER VALVE COMPANY	C655	CRAIG SYSTEMS CORP.
C605	CONTROL CORP.	C656	CORBIN CO.
C606	CONVEYOR COMPONENTS CO.	C657	COWAN DYNAMICS LTD.
C607	CORPORATE CONSULTING & DEVLPMT CO LTD	C658	CORNING GLASS WORKS
C608	COST INC	C659	CORCORAN, MATT
C609	CONTROL POWER SYSS INC	C660	CRAMER CONTROL CORP.
C610	CONTROL DATA CORP.	C661	CORNELL & UNDERHILL, INC.
C611	CONTROL DEVICES PACIFIC, INC.	C662	CORR-TECH
C612	CONTROL DIVISION OF AMERACE	C663	CRAMER & LINDELL CO.
C613	CONTROL HEADQUARTERS, INC.	C664	COURIGN INDUSTRIES INC.
C614	CONTROL SPECIALITIES	C665	CRANE COMPANY
C615	CONTROL PRODUCTS CORPORATION	C666	CRANE DEMING PUMPS
C616	CONTROL MASTERS INCORPORATED	C667	CORNER AND LADA CO. INC.
C617	CONTROLLED AIR CONPORT CO.	C668	COWAN, FREDERICK & CO.
C618	COOPER NUCLEAR STATION	C669	CRAN HOIST CORP.
C619	CONTROL PRODUCTS DIV (AMERACE CORP.)	C670	CRANE HOIST ENGINEERING & MFG CO.
C620	CONTROL TECHNOLOGY CO., INC.	C671	COOK & BROWN LIME COMPANY
C621	CONTROLLED POWER CORP.	C672	CRANE, JOHN CO.
C622	COOPERS & LYBRAND	C673	CORBESCO INC.
C623	CONTROLLED EQUIPMENT CO.	C674	CRANE MFG. & SERVICE CORP.
C624	COPES-VULCAN INC.	C675	CRANE MIDWEST FITTING CORPORATION
C625	CONTROLS FOR ENVIRONMENTAL POLLUTION, INC.	C676	CRANE COMPANY-CHEM PUMP DIVISION
C626	CONTROLotron	C677	COO-PAR CONCRETE CORPORATION
C627	COPE, T. J.	C678	CRANE CO. (COCKRANE DIV)
C628	COOPER ENERGY SERVICES	C679	CORDOVA BOLT INC.
C629	COOPER INDUSTRIES	C680	CRANE-FLOMATICS DIV.
C630	CONTRONATICS CORP.	C681	CRANE PACKING CO.
C631	CONVAL INC.	C682	CRANE SUPPLY CO.
C632	CONVEYOR DYNAMICS INC.	C683	CRANE TELIDYNE CHEM-PUMP DIVISION
C633	COOPER PENJAX	C684	CRANE VALVE CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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C685	CRAWFORD FITTING CO.	C739	CUMMINS-WAGNER CO. INC.
C686	CRE BRYANT SUPPLY CO.	C740	CUMBERLAND RESEARCH CORP.
C687	CREAHER & DUNLAP INCORPORATED	C741	CUMMINGS INSULATION CO.
C688	CRESCENT NIAGARA CORP.	C742	CUMMINS ENGINE CO., INC.
C689	CRAWFORD & C' (BERGEN-PATTERSON CORP.)	C743	CUNNINGHAM SUPPLY CO.
C690	CREVSOT-LOIRE (FRANCE)	C744	CURTIS DEVELOPMENT & MFG CO.
C691	CREWS, M.C. CO.	C745	DUNO ENGG CORP.
C692	CRISPIN VENTS	C746	CUTRIS-ELECTRO
C693	COPPERWELD TUBING GROUP	C747	CURTIS-WRIGHT
C694	CROCKATT, W.W., & SONS	C748	CUSTODIS CONSTRUCTION COMPANY
C695	CROLL-REYNOLDS ENGINEERING CO., INC.	C749	CURTIN MATHESON SCIENTIFIC CO.
C696	CORKEN INTERNATIONAL CORP	C750	CUSTOM ALLOY CORP.
C697	CRESCENT ELRC	C751	CURTIS MANUFACTURING CO.
C698	COPPERWELD CORP (X-REF 0021)	C752	CORRUGATED ERECTION CO.
C699	CORRECT-AIR CORP	C753	CUSTOM COMPONENT SWITCHES, INC.
C700	CORNELL IRON WORKS, INC.	C754	CURTIS INDUSTRIES, INC.
C701	CPO ENGG INC	C755	CUSTOM CONT PROD.
C702	CRANE/PRO-TECH ENVRNHTL INSTRU (C665)	C756	CUSTOM CONTROL PANELS
C703	CONTRACT HARDWARE INC	C757	CUSTOM ELECTRICAL SYSS INC
C704	CURTIS, L.N. & SONS	C758	CUSTOM CONTROLS CO INC
C705	CRONELL KUBLIER	C759	CUSTOM CONTROL SENSORS INC
C706	CONVERSION SYSTEMS INC	C760	CUSTOM ENGG CORP
C707	CROWLEY, CHARLES P. CO	C761	CUSTOM INDUSTRIAL CONTROL
C708	CROW, LEWIS M.	C762	CUSTOM PLASTIC
C709	CROWTER, INC.	C763	CUSTOM SWITCHES
C710	CORSBY VALVE & GAGE CO.	C765	CUSTOMLINE CONTROL PRODUCTS, INC.
C711	CROSBY VALVE	C766	CUSHMAN ELECTRONICS
C712	CONCRETE SEALANTS INC	C770	CUTLER-HAMMER
C713	COSSITT CONCRETE PRODUCTS	C775	CUTTER ELEC & MFG
C714	CONTINENTAL PUMP CO	C777	CUYLER PRODUCTS INC.
C715	CROSBY-ASHTON GAGE CO.	C780	CVI CORP.
C716	CRYO CHEM INC.	C782	CYBEREX INC.
C717	CRYOGENICS EXPERTS INC	C785	CYCLONE FENCE
C718	CRYO-TEC INC	C790	CYCLOPS CORP.
C719	CROUSE NUCLEAR SERVICE INC.	C793	CYCLOPS IRON WORKS
C720	CROUSE-HINDS	C795	CYCLOTRON CORP., THE
C721	CROWLEY, PHIL & ASSOCIATES	C796	CYGNA ENERGY SYS (FRMLY E036)
C722	CROWN CORRECTION INC.	C797	CYPRESS WELDING EQUIP INC
C723	CRUMP, AL	C804	CYPRUS CABLE SUPPORT CO.
C724	CRUCIBLE STEEL CO.	C805	CYPRUS WIRE & CABLE COMPANY
C725	CRYOGENIC ENGINEERING CO. (CRYENCO)	C806	CABELL ELECTRIC CO.
C726	CRYENCO DIV CTI.	D001	DANA CORP.
C727	CRYOON CONTROLS	D002	D'CAF STEEL FABRICATORS
C728	CRYDOM CONTROLS	D003	DALTON INT'L (DIV OF WAYNE DOOR CO)
C730	CRYOGENIC TECHNOLOGY, INC.	D004	DALIEL
C731	CTE, INC.	D005	D'APPOLONIA, E. CONSULTING ENGINEERS, INC.
C732	CULLEN, J. T. COMPANY	D006	DAHL, GEORGE W., COMPANY INCORPORATED
C733	CTI NUCLEAR INC.	D007	DAIRYLAND POWER COOPERATIVE
C734	CULLEN, J. P., & SONS, INC.	D008	DAKE ENGINE COMPANY
C735	CULLIGAN INTERNATIONAL	D009	DANA MECHANICAL CONTRACTING CO.
C736	CUMMINS SERVICE & SALES	D010	DAMES & MOORE

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CODE	VENDOR NAME	CODE	VENDOR NAME
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D011	DANA LABORATORIES	D062	DEALER'S ELECTRIC CO.
D012	DANIEL INDUSTRIES, INC.	D063	DECISION DATA COMPUTER CORP.
D013	DANIEL BOLT CO.	D064	DEARBORN CHEMICAL (DIV OF CHEMED CORP)
D014	DANIEL CONSTRUCTION COMPANY	D065	DEANS BROS PUMP
D015	DANIEL ORIFICE COMPANY	D066	DECO ENGINEERING PRODUCTS, INC.
D016	DANIEL INTERNATIONAL CORP.	D067	DEARBORN RUBBER CORP.
D017	DANKAS, WALTER, COMPANY	D068	DEARMAN MFG.
D018	DANTON	D069	DEARBORN WIRE & CABLE CO.
D019	DANISH HYDRAULIC INSTITUTE	D070	DECATUR PUMP CO.
D020	DARLING VALVE & MFG CO. (SEE A391)	D071	DECATUR ENGINEERING COMPANY
D021	DANIEL MEASUREMENT CO.	D072	DEDELON, INC.
D022	DAMPER DESIGN INC.	D073	DACON SYSS INC
D023	DALE ELECTRONICS	D074	DURA PRODS INC
D024	DICE DECAL COMPANY	D075	DEFENSE APPAREL NU-COM PRODUCTS
D025	DARLING-ANCHOR (SEE A393)	D076	DATA SYSTEMS DESIGN INC
D026	DAILY INSTRUMENTS CORP.	D077	DEGREMONT INC.
D027	DATA-PIC SYSTEM, INC.	D078	DANIEL INTERNAT'L CORP (FLUOR CORP)
D028	DAKE CORP.	D079	DEUTSCH RELAYS INC
D029	DATA 100 CORP.	D080	DEKORON DIV.
D030	DATA TECHNOLOGY CORP.	D081	DETROIT BALL BEARING CO
D031	DATAPRODUCTS, CORP.	D082	DELANY CO.
D032	DAVE STEEL CORP	D083	DELAWARE ALLOY FORGE CO.
D033	DATL SYSTEMS	D084	DEL TECH ENGINEERING INC.
D034	DAY-BRITE, INC.	D085	DEL ELECTRONICS CORP.
D035	DATEX	D086	DELEVAN CO.
D036	DETROIT EDISON COMPANY	D087	DEUTSCH ELECTRONICS COMPONENTS DIV
D037	DAUGHERTY COMPANY INC.	D088	DELAVAL TURBIN INC.
D038	DAVID ROUND & SON INC.	D089	DELAVAL ENGINES & COMPRESSION DIV.
D039	DAVIS ENGINEERING CORP.	D090	DEL MAR ENGINEERING LAB
D040	DAVIS & WILDER, INC.	D091	DELMARR TRANSMITTER CO.
D041	DAVIS CONSTRUCTION	D092	DELCO CO.
D042	DAVIS IRON WORKS, INC.	D093	DELEVAL CONDENSER, INC.
D043	DAVIS METAL PRODUCTS	D094	DELEVAL SEPARATOR COMPANY, THE
D044	DAVIS, GREGORY & DOLL CO	D095	DELLE AHLSTROM
D045	DAYCO SHEET METAL	D096	DELPHI INDUSTRIES
D046	DIONEX CORP	D097	DELTADYNE
D047	DAYSTRON INC.	D098	DELTA CORP.
D048	DYNAMATION INC	D099	DELTA IRON WORKS, INC.
D049	DAYTON SURE-GRIP & SHORE COMPANY	D100	DELTA SOUTHERN CO.
D050	DAYTRONICS	D101	DELTA STEEL CORPORATION
D051	DA-LITE SCREEN CO INC	D102	DELTA SWITCH BOARD COMPANY
D052	DETROIT DOOR & HARDWARE CO	D103	DELCO PRODUCTS
D053	DAVCO (DAVIS IND INC)	D104	DELTA-FLO HEATER MFG CO.
D054	DECO MFG CO INC	D105	DELTA-STAR ELEC DIV
D055	DE LAVAL TURBINE, INC.	D106	DELTEC CORP.
D056	DANCO INC	D107	DELTA ELECTRONIC CONTROL CORP (STATIC PWR)
D057	DE VILBISS COMPANY	D108	DELTROL CORP.
D058	DOCUNATION INC	D109	DELTA CONTROLS CORP.
D059	DATA PRINTER CORP	D110	DELTRON INC.
D060	DE EURICK CORP.	D111	DIRECT SAFETY CO
D061	DEAL, ROBERT S. CORP.	D112	DON-JONES ENGG CO INC

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CODE	VENDOR NAME
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D113	DYNAMIC TECHNOLOGY INC
D114	DESIGNED SPACE INTERNAT'L
D115	DELUXE METAL FURNITURE
D116	DIVERSIFIED THREADED PRODS CO
D117	DIAL STEEL FABRICATORS INC
D118	DEMCO INC.
D119	DENVER EQUIPMENT DIVISION
D120	DEMING CO
D121	DENISON, R.B., INC.
D122	DENISON DIVISION
D123	DERAKANE CO.
D124	DEPENDABLE CONCRETE PRODUCTS COMPANY
D125	DEPPHAN, R. L.
D126	DEPRIIIO, R.L., & ASSOC., INC.
D127	DEPRIIIO, V.W., CONSTRUCTION CO.
D128	DESOMASTIC PRODUCTS CO.
D129	DETRICK, H.M. CO.
D130	DETROIT HOIST & MACHINE
D131	DICK CORPORATION
D132	DES MOINES STEEL CO.
D133	DETROIT INDUSTRIAL INSTRUMENTS CO.
D134	DESIGN DEMPFR CO.
D135	DETROIT STEEL CORP.
D136	DETROIT SWITCH INC.
D137	DETROIT TESTING LABORATORIES
D138	DESSAU, HAROLD COMPANY
D139	DEVILBLISS COMPANY
D140	DEUTERIUM CORP.
D141	DEUTSCH CO.
D142	DEVAR CONNECTICUTT
D143	DIAMOND SHAMROCK CORP.
D144	DIS-TRAN PRODUCTS INC.
D145	DEVCO ENGINEERING INC.
D146	DEWRANCE N. COMPANY LTD.
D147	DEZURIK
D148	DIAMOND (SAVANNAH, GA.)
D149	DIALCO
D150	DIAMOND POWER SPECIALTY CORP.
D151	DIAMOND ELECTRONICS, ARVIN CO.
D152	DIAMOND CHAIN CO.
D153	DIAMOND CANAPOWER LTD.
D154	DIAMOND-VOGEL
D155	DIAMOND SHAMROCK CHEMICAL CO.
D156	DIANO CORP.-NDT PRODUCTS DIV
D157	DICK, A.B., CO.
D158	DIETZ
D159	DICKSON COMPANY
D160	DIGITAL EQUIPMENT CORP.
D161	DIGITRAN
D162	DICKS-ARMSTRONG, PONTIOS, INC.
D163	DIETERICH STANDARD CORP.

CODE	VENDOR NAME
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D164	DICKEY PIPE COUPLINGS
D165	DIKEWOOD CORP., THE
D166	DIELECTRIC COMMUNICATIONS
D167	DIKKERS
D168	DICKEY CO.
D169	DIVAC CORP.
D170	DILLON, W.C. & CO., INC.
D171	DINGO DYNAMICS
D172	DOLPHIN, W.B. & ASSOCIATES CO.
D173	DIVERSIFIED CHEMICALS CORP.
D174	DIXIE PIPE & SALES INC.
D175	DINGS MAGNETIC SEP
D176	DIVAC ELECTRONICS
D177	DOLLINGER CORP.
D178	DOLPHIN ENGINEERING CO.
D179	DODGE CO.
D180	DONALDSON COMPANY
D181	DOKERR ELECTRIC CORP.
D182	DONOVAN SALES CO.
D183	DODGE DIV OF RELIANCE ELECTRIC CO.
D184	DOHONY-ZACHARY INC.
D185	DOOR-MAN MANUFACTURING CO.
D186	DOLK VALVE CO.
D187	DO ALL ROCKFORD CO.
D188	DIETGEN, EUGENE COMPANY
D189	DOORS INC.
D190	DORNBLATT & ASSOCIATES, INC.
D191	DORR-OLIVER, INC.
D192	DORIC SCIENTIFIC (WARD/DAVIS ASSOCIATES, INC)
D193	DON-JOHNS, INC.
D194	DIEBOLD INC
D195	DOSIMETER CORP.
D196	DORADO SYSTEMS
D197	DONOVAN INDUSTRIAL SUPPLY CORP.
D198	DISTRIBUTION DESIGN, INC.
D199	DIABLO SYSS INC
D200	DOSSERT MFG
D201	DOMESTIC PUMP CO (ITT)
D202	DOUBLE 'A' PRODUCTS CO.
D203	DYNEX/RIVETT INC
D204	DIANI, A.J. CONSTRUCTION CO INC
D205	DOUGLAS LABS, DONALD W.
D206	DUCTMATE IND INC
D207	DONN PROD INC
D208	DUBOSE STEEL INC
D209	DYNAPOWER CORP
D210	DOUGLAS UNITED NUCLEAR, INC.
D211	DOVER ELEVATOR COMPANY
D212	DOVER CORPORATION
D213	DOBLE ENGINEERING INC.
D214	DUHIG & CO INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
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D215	DOW CHEMICAL COMPANY, THE	D266	DURCO CO., INC.
D216	DOWCO CORPORATION	D267	DUNHAM-BUSCH, INC.
D217	DOW CORNING CORP.	D268	DUNG RADIATOR COMPANY
D218	DRANKTE ENGINEERING LABS, INC.	D269	DUNTMAN & SHAPPERT
D219	DYTRON, INC.	D270	DUNHAM, C. A.
D220	DOWN RIVER MECHANICAL, INC.	D271	DUQUESNE LIGHT COMPANY
D221	DOYEN & ASSOCIATES, INC.	D272	DURAMETALLIC CORP.
D222	DYNACON SYSTEMS, INC.	D273	DUR-A-FLEX SEAMLESS FLOORS
D223	DOWNS CRAN & HOIST CO.	D274	DURRETT-SHEPPARD CORP.
D224	DYNASCAN CORP. (TELENOTIVE PRODUCTS GROUP)	D275	DURIRON CO., INC.
D225	DOWZER ELEC MACH WKS	D276	DO-ALL MIDWEST CO.
D226	DUCON CO., INC.	D277	DURO-INSTRUMENT CO.
D227	DULUTH PLUMBING SUPPLIES CO., INC.	D278	DUR-O-WAL NATIONAL, INC.
D228	DRAKE CORP.	D279	DURR, R.C., COMPANY, INC.
D229	DRAGO SUPPLY CO.	D280	DWIGHT FOOTB, INC.
D230	DOYLE, M.J. CO.	D281	DUST SUPPRESSION SYSTEMS
D231	DOYLE AND ROTH MANUFACTURING CO.	D282	DWYER, F.W. MFG CO., INC.
D232	DRAGON VALVE, INC.	D283	DYNALCO CORP.
D233	DRAKE-WILLIAMS STEEL CO.	D284	DUNE PRECAST CONCRETE PRODUCTS, INC.
D234	DRANK CO.	D285	DYNALECTRON AEROSPACE OPERATIONS
D235	DRAVER CORP.	D286	DYNAGE
D236	DRAVO CORP (PIPE FABRICATI'N DIV)	D287	DYNAMATICS
D237	DRAVO-DOYLE CO.	D288	DYNA-QUIP
D238	DRESSEN-BARNES ELECTRONICS CORP.	D289	DYNASCIENCE CORPORATION
D239	DREXELBROOK ENG CO.	D290	DYNATECH R/D CO.
D240	DRAVO, INC.	D291	DYSON, JOSEPH & SONS, INC.
D241	DRESSER CRANE & HOIST OPERATIONS	D292	DYER, THOMAS J., CO.
D242	DRESSER-EUROPE	D293	DYNA CELL
D243	DRESSER INDUSTRIAL VALVE & INST DIV	D294	DWYER PRODUCTS CORP.
D244	DRESSER CRANE, HOIST & TOWER DIV	D295	DWYER INSTRUMENTS INC.
D245	DRESSER INDUSTRIES, INC.	D296	DYTRONICS INC.
D246	DRIERITE, W.A., HAMMOND, CO.	D297	DYNAFORCE CORPORATION
D247	DSD COMPANY, THE	D298	DYER FIBERGLASS INC
D248	DRYER DYNAMICS CORP.	D299	DYNATECH FRONTIER INC
D249	DUAL SNAP	D300	DINSTRICS INC
D250	DU KANE CORP.	D301	DYNAC DIVISION SPECIAL DYNAMICS
D251	DUCOMMUN METAL & SUPPLY CO.	D302	DETROIT DIESEL-ALLISON DIV
D252	DRYING SYSTEMS CO.	D303	DAVIS INSTRUMENTS MFG CO INC
D253	DUCT-O-WIRE CO.	D304	DOUGLAS STEEL FAB CORP
D254	DURIE-CLARK CO.	D305	DRURY CO
D255	DU PONT DE NEMOURS & CO., INC., E.I.	D306	DEAN PRODUCTS INC (PANELCOIL)
D256	DU KANE PRE-CAST CONCRETE	D307	DURABLE CONTROLS INC
D257	DUKE POWER COMPANY	D308	DALLY ENGINEERING VALVE CO
D258	DUNBAR & SULLIVAN DREDGING COMPANY	E001	EAL CORP (NAME CHANGE FROM L190)
D259	DUOSEAL INTERNATIONAL	E004	E-SYSTEMS, INC. (MONTEK DIV)
D260	DUNCAN ELECTRIC	E005	E.B.V SYSTEMS, INC.
D261	DURODYNE CORP.	E008	ERC/LANCY (DART ENVRNMT & SVSS CO)
D262	DURANT DIGITAL INSTRUMENTS	E009	E V O CORP.
D263	DUFF-NORTON COMPANY	E010	E. G. & G. INC.
D264	DURHAM & RICHARDSON, INC.	E011	E-SYSTEMS, INC.
D265	DUNEGAN CORP.	E012	E.S.A.B. MANUFACTURES INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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E013	E.I.M.C.O. BSP DIV-ENVIRO-TECH CORP.	E080	ECODYNE COOLING PRODUCTS CO.
E014	E.L.C.O.	E081	ECODYNE GRAVER(N20) DIVISION
E015	E.I.L. INSTRUMENTS CO.	E082	EDERER INC.
E016	E.S.B. INC.	E083	EDGERLY INSTRUMENT CO.
E017	EADY, GEORGE H., CO.	E084	EDISON INSTRUMENT COMPANY
E018	EAGLE ENGINEERING CO.	E085	EDLOW INTERNATIONAL CO.
E019	EAGLE IRON WORKS	E086	ECOLOGY CONSULTANTS INC.
E020	EAGLE SIGNAL	E087	ECOKEL CO.
E021	ECHO LABORATORIES	E088	EDDY-IOWA
E022	ELECTRIC SWITCHES INC	E089	ECODYNE UNITECH DIV
E023	ERICSON MFG CO	E090	EDWARDS CO.
E024	EASTERN SPECIALTY CO, THE	E091	ECOLAIRE CONDENSER INC.
E025	EAGLE-PICHER INDUSTRIES, INC.	E092	ECONOMY GAGE & INSTRUMENT CO.
E026	EBERHARD FABER INC	E093	EDWARDS POWER DOOR CO.
E030	BANCO, INC.	E094	EGGERER CO.
E035	EARLE EQUIPMENT	E095	EDWARDS VALVES DIV
E036	EARTHQUAKE ENGINEERING SYSTEMS INC.	E096	EDWARD STAUBER WHOLESAL HARDWARE, INC.
E040	EARTH ENVIRONMENT MONITORING	E097	ELECTRA MOTORS INC.
E041	EAST COAST STEEL	E098	ELASTIC STOP NUT CORP. OF AMERICA-AGASTAT
E042	EAST BAY STEEL PRODUCTS, INC.	E099	ELCEN METAL PRODUCTS CO.
E043	EASTCH INC.	E100	ELECTRIC ARC CO.
E044	EASTERN CONTROLS	E101	EDS NUCLEAR
E045	EASTERN INDUSTRIES	E102	EEB POWER ENGINEERING INC.
E046	EASTERN ELECTRIC SUPPLY	E103	ELECTRIC APPARATUS COMPANY
E047	EAST MOLINE METAL PROD CO	E104	EKG ASSOCIATES
E048	EBCO MFG CO	E105	ELECTRIC COMMUNICATION
E050	EASTERN SPECIALTIES	E106	ELECTRIC ENVIRONMENTAL SYSTEMS
E051	EASTERN STAINLESS STEEL CO.	E107	ELAN ENGINEERING CORP.
E052	EASTER OWENS ELECTRICAL CO.	E108	EL-TEX INDUSTRIES INC.
E055	EASTMAN KODAK CO.	E109	ECODYNE CORP. (MRM DIV)
E059	EATON CORP.	E110	ELECTRIC ENGINEERING EQUIPMENT
E060	EATON METAL PRODUCTS CO.	E111	ECONOMIC LABORATORIES INC.
E061	EDISON ELECTRIC INSTITUTE	E112	EDWARDS ENGINEERING CORP.
E062	EATON, YALE & TOWNE INC.	E113	EFFECTS TECHNOLOGY
E063	ECTRON CORP.	E114	ELECTRIC FIXTURE AND SUPPLY
E064	ELECTROHOME LIMITED	E115	EIM INC.
E065	EBASCO SERVICES INC.	E116	ELECTRICAL MATERIALS & EQUIPMENT CO., INC.
E066	ECLIPSE-LOOKOUT COMPANY	E117	ELECTRIC CONTROL DEVICES, INC.
E067	ECONOTHERM INSULATION CO., INC.	E118	ELECTRONIC FLO-METERS INC
E068	E.B.R., INC.	E119	ELECTRIC MFG INC.
E069	EBY, MARTIN K., CONSTRUCTION COMPANY, INC.	E120	ELECTRIC MACHINERY MFG. CO.
E070	EBERLINE INSTRUMENT CORP.	E121	ELECTRIC MOTORS LTD.
E071	EBERHARDT-DENVER	E122	EKTO MFG CORP
E072	EBKO PIPING SYSTEMS	E125	ELECTRIC POWER EQUIP.
E073	ECON-O-TROL	E127	ELECTRIC POWER RESEARCH INSTITUTE
E074	ECKART & FINARD CO.	E130	ELECTRIC PRODUCTS
E075	ECO PUMP CORP.	E131	ELECTRICAL EQUIPMENT SALES CO.
E076	ECKER, M. COMPANY	E135	ELECTRIC REGULATOR
E077	ECO-SCIENCE LAB	E136	ELECTRICAL CONTROLS INC.
E078	ECODYNE CORPORATION (SANTA ROSA, CALIF)	E137	ELECTRIC THERMOMETERS, INC.
E079	ECODYNE CORPORATION (UNION, NEW JERSEY)	E138	ELECTRICAL SPECIALITY PRODUCTS CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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E139	ELECTRIC WHEEL COMPANY	E215	ELGIN SOFTENER, INC.
E140	ELECTRIC SERVICE	E216	ELGIN MFG. CO.
E141	ELECTRIC SUPPLY CORPORATION	E217	EMERSON ENGINEERING CO., INC.
E142	ELECTRO CORPORATION	E218	EMERSON ELECTRIC CO., VARFC DIVISION
E143	ELECTRICAL APPLIANCE COMPANY	E219	ELLENCO, INC.
E144	ELECTRO LIFT	E220	ELLIOTT CO.
E145	ELECTRO DEVICES, INC.	E221	ELLINGTON MILLER COMPANY, (EMCO)
E146	ELECTRO-MECHANICS	E222	ELLISON - INSTR.
E147	ELECTRO - MOTIVE DIV. OF GM	E223	ELNA ENGINEERING CO.
E148	ELECTRO PRODUCTS	E224	ELKAY MANUFACTURING
E149	ELECTRO PRODUCTS LABORATORIES	E225	ELSCINT INC.
E150	ELECTRO RUST-PROOFING	E226	ELTRA CORPORATION
E151	ELECTRO DRYER	E227	ELWOOD NUCLEAR SAFETY
E152	ELECTRO SYSTEMS INC.	E228	ELK-HART VALVE CO.
E153	ELECTRICAL INSTRUMENT SERVICE, INC.	E229	ELMA ENGINEERING COMPANY
E155	ELECTRO SWITCH CORP.	E230	EMANON CO., INC.
E156	ELECTRO CONTROLS & ENCLOSURES	E231	EMC
E158	ELECTRO-MECHANO	E232	EMERSON ELECTRIC CO.
E160	ELECTRO-MOTIVE DIV	E233	EMPIRE STEEL CASTING, INC.
E165	ELECTROID CO.	E234	EMMISSION CONTROL
E168	ELECTROL, INC.	E235	EMR-COMPUTER
E169	ELECTROMAX INSTRUMENTS, INC.	E236	ENGCO (PRODUCTS CORP)
E170	ELECTROMETER CORP.	E237	EMERGENCY-POWER ENGINEERING
E171	ELECTRIC THERMOMETERS TRINITY INC	E238	EMPRO MANUFACTURING COMPANY, INC.
E175	ELECTROMODE	E239	EMERSON-CHROMALOX
E177	ELECTROM MACHINE CO., THE	E240	EMR-PHOTOELECTRIC
E180	ELECTRONIC ASSOC., INC.	E241	ENDURANCE METAL PRODUCTS CO.
E185	ELECTRONIC CONTROL	E242	ENCON MANUFACTURING CO.
E190	ELECTRONIC COUNTERS CORP.	E243	ENVIREX INC (DIV OF REXNORD)
E192	ELECTRONIC DEVELOPMENT LABORATORIES INC.	E244	EMERY, A.W., COMPANY, THE
E193	ELECTRONIC DISTRIBUTORS, INC.	E245	EMR-TELEMETRY
E195	ELECTRONIC ENGINEERING	E246	ENDEVCO INC.
E196	ELECTRONIC RESOURCES	E247	ENDICOTT FORGING
E197	ELECTRONIC POWER & CONTROL CO.	E248	ENDRESS & HAUSER
E198	ELECTRO-SCIENTIFIC INDUSTRIES	E249	ENERPAC
E199	EMPIRE TOOL & MFG CO INC	E250	ENERGY INC.
E200	ELECTRONIC SPACE PRODUCTS, INC.	E251	ENERCON ENGINEERING CO.
E201	ELECTRONICS CORPORATION OF AMERICA	E252	ENERGY PRODUCTS GROUP
E202	ELECTROSTATICS	E253	ENERGY RESEARCH DEVELOPMENT AGENCY-(ERDA)
E203	ELECTOM MACHINE CORP.	E254	ENPO-CORNELL COMPANY
E204	ELECTROMAGNETIC IND. INC.	E255	ENERGY SCIENCES INC.
E205	ELECTRONIZED CHEMICALS CORP.	E256	EMBER PRODUCTS, INC.
E206	ELWOOD SENSORS INC	E257	ENERGETICS SCIENCES DIV. (BECTON, DICKINSON)
E207	ELEC TACHOMETER CORP (X-REF M118)	E259	ENGDAHL ENTERPRISES
E208	ELGEN MFG CORP.	E260	ENGELHARD INDUSTRIES
E209	ELGAR, CORP.	E261	ENGINEERED INDUSTRIAL EQUIP. CO., INC.
E210	ELECTROSYN TECHNOLOGY LABORATORIES, INC.	E262	ENGINEERED PRODUCTS, INC.
E211	ELKHART GLASS MANUFACTURING CO., INC.	E263	ENGINEERED SALES
E212	ELKHART FOUNDRY & MACHINE CO.	E264	ENGINEER CO.
E213	ELKHART BRASS MFG. CO., INC.	E265	ENGINEERING DATA SYSTEMS, INC.
E214	ELGIN-BUTLER BRICK CO.	E266	ENGR ANALYST SVSS INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
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E267	ENGINEERED CONTROL SYSS	E325	ESSELSYN-MURPHY-NANP
E268	ELSIE MFG CO	E326	ESSEX BRASS CORP.
E269	ELECTROMARK CO	E327	ESSEX INTERNATIONAL
E270	ENGINEERS AND FABRICATORS, INC.	E328	ESSEX WIRE CORP.
E271	ENGLEWOOD ELECTRICAL SUP	E330	ESTERLINE-ANGUS
E272	ENGINEERS TESTING LABS	E335	ESE ASSOCIATES, INC.
E273	ENVIRONMENTAL SYSS CORP	E337	STATECH INDUSTRIES INC.
E274	ENCO MFG CO	E338	EUR-CONTROL USA INC
E275	ENGLISH ELECTRIC	E339	EUREKA BOILER WORK
E276	ENOREX INC.	E340	EUCLID ELEC & MFG
E277	ENPRO	E341	EVANS STEEL & MFG CO.
E278	ENTRELEC	E342	EVANS EQUALIZING CO.
E279	ENGINEERED GRATING INC	E343	EVANS, GEORGE CO.
E280	ENSIGN ELECTRIC & MFG	E344	EYERS CO.
E281	ENVIREX, INC.	E345	EX-CELLO CORP.
E285	ENVIROGENICS COMPANY	E346	EVER-TITE COUPLING CO., INC.
E286	ENVIRONMENTAL AIR PRODUCTS INC.	E347	EXELROD & KERBER, INC.
E287	ENVIRONMENTAL ENHANCEMENT	E348	EVERPURE INC.
E288	ENVIRONMENTAL DEVICES CORP.	E350	EXECUTONE INC.
E289	ENVIRONMENTAL ELEMENTS CORP.	E351	EXO SENSORS INC
E290	ENVIRONMENTAL ANALYSTS, INC.	E352	E T A ENGINEERING INC
E291	ENVIRONMENTAL DATA CORP.	E353	EXIDE ELECTRONICS CORP
E292	ENVIRONMENTAL PRODUCTS	E354	EXOTIC MATERIALS, INC.
E293	ENVIRONMENT ONE CORP.	E355	EXIDE INDUSTRIAL DIV
E294	ENVIRONMENTAL TESTING CORP.	E356	EXIDE POWER SYSTEMS
E295	ENVIRONMENTAL RESEARCH CORP.	E357	EXITAIRE COMPANY, INC.
E296	ENVIRO TECH	E358	EXXON USA
E297	ENVIRO-FAB INC	E359	EXXON CHEMICAL COMPANY
E298	EDERER CORPORATION	E360	EXXON NUCLEAR CO., INC.
E299	E P G (DIV OF GULF-W)	E361	EWING-RECORDS & ASSOCIATES
E300	EON CORP.	E362	ETNA OIL CO INC
E301	EPPERSON & CO.	E363	EVER-READY THERMOMETERS CO
E302	ERDCO ENGINEERING CO.	E365	EYERS CO.
E303	ERPCO SERVICES, INC.	E375	EXIDE POWER SYSTEMS DIV
E304	ERECTORERS, INC.	F001	F & M SUPPLY INC.
E305	ERICO PRODUCTS, INC.	F002	F & S CENTRAL
E306	ERA TRANSPAC CGRP.	F003	FABEK, JOHN-TRACTOR COMPANY
E307	EPICOR, INC.	F004	FABRICATING WELDING CORP.
E308	EPCLUX MANUFACTURING CORP.	F005	FABOHIO, INC.
E309	EPPLEY LABORATORY INC.	F006	FABRI VALVE COMPANY
E310	ERIE ELECTRIC COMPANY	F007	FACR VALVE CO.
E311	ERIE MAGNETICS	F008	FAPNIR BEARINGS
E312	ERNST GAGE CO.	F009	FAG BEARINGS
E313	ERNST, E.C. INC.	F010	FAIRBANKS HORSE
E314	ESB, INC.	F011	FAIRIS ENGINEERING
E315	ESCO CORPORATION	F012	FAIRCHILD IND. (PRODUCTS DIV)
E316	ERNST, EUGENE PRODUCTS CO.	F013	FAIRCHILD PRODUCTS HILLER
E317	ESCO MFG. CO.	F014	FALCON MARINE CO.
E318	EHRSAM TRANSPORT, INC.	F015	FALK CORP.
E319	ESCH & ASSOC	F016	FALCON STEEL CO.
E320	ESCO PRODUCTS	F017	FAIRCHILD, W.R., CONSTRUCTION CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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F018	FAVA NUCLEAR ENGG INC	F087	FERRO, P.T. CONSTRUCTION, INC.
F019	FAIRBANKS CO, THE	F088	FERGUSON EQUIP CO
F020	FANSTEEL, INC.	F089	FETTEROLF CORP.
F021	F & J SPECIALTY PROD INC	F090	FERRANTI-PACKARD ELEC
F022	FACET ENTERPRISES INC	F091	FERROSTAAL-METABO TOOL CO
F023	FAUVER, J.N. CO INC	F092	FICK FOUNDRY
F024	FLEXICRAFT INDUSTRIES INC	F093	FIAT PRODUCTS
F025	FARGO MFG CO.	F094	FIAT CO.
F026	FMC CORP	F095	FIELD EMISSION CORP.
F027	FILTREX INC	F096	FIELD FABRICATIONS
F028	FORT HILLER CO INC	F097	FINE & FIRSTENBERGER MFG COMPANY
F029	FARINON ELECTRIC CO.	F098	FISH ENGG & CONSTRUCTION INC
F030	FARR CO.	F099	FIRE PROTECTION OF LOUISVILLE INC
F031	FX SYSTEMS CORP	F100	FIFTH DIMENSION, INC.
F032	FALCON MACHINERY CO	F101	FLEXAUST CO (CALLAHAN MINING CO)
F035	FARRIS ENGINEERING	F102	FLUIDIZED BONDING CO
F036	FARROW COMPANY, INC.	F103	FIFE METAL PRODUCTS CORP.
F037	FARVAL CORPORATION	F104	FILKENS, EDWARD, CO.
F038	FAULSTICK BROS	F105	FILTECH, INC.
F039	FUSKS UNLIMITED	F106	FIELD & SHORB CO, THE
F040	FASCO INDUSTRIES INC.	F107	FIRETECK CORP
F041	FAUST, HAROLD COMPANY, INC.	F108	FERRO ENAMELING
F042	FABRICATION ENGINEERING COMPANY	F109	FINCOR
F043	FAVORITE RUBBER COMPANY	F110	FILTERITE CORP.
F044	FEDDERS-QUIGAN CORPORATION	F111	FAIRFIELD ENGINEERING CO. (FORMERLY-FOR)
F045	FED AHER CEMENT & TILE	F112	FINNIGAN, J.J.
F046	FEDCO CONTROL	F113	FINEWELD TUBE
F047	FEDERAL CEMENT PRODUCTS, INC.	F114	FIRE PROTECTION SYSTEM GRINNELL CO.
F050	FEDERAL ENTERPRISES	F115	FIRST COLONY CORP.
F053	FEDERAL-MOGUL CORP.	F116	FIRETROL INC.
F055	FEDERAL PACIFIC ELEC	F117	FLEXIBOX INC.
F057	FEDERAL PRODUCTS CORPORATION	F118	FISCHBACH & HATFIELD ELECTRIC CO (JOINT-VENT)
F060	FEDERAL SIGN & SIGNAL	F119	FISCHBACH & LORD
F062	FEDERAL STEEL CORP.	F120	FISCHER & PORTER CO.
F063	FEDERAL, STEEL & SUPPLY COMPANY	F121	FIREMASTER (SUB. WALTER KEIDDE & CO.)
F064	FEDERAL SIGNAL CORPORATION	F122	FLEHING, DON D., COMPANY, INC.
F065	FEDERAL TEL & RADIO	F123	FIVE STAR FIELD SERVICE COMPANY, INC.
F067	FEE & MASON	F124	FMS CORP
F068	FELKER BROTHERS MFG CO.	F125	FISHER CONTINENTAL
F070	FEMCO, INC.	F126	FISHER SWITCHES INC. (FISHER-BROWNELL)
F072	FENNELL CO., INC.	F127	FISHER FLOW CONTROL DIV (ROCKWELL INT)
F075	FENESTRA BLDG PROD	F128	FLO TECHNOLOGY INC.
F076	FERROXCUBE DIV (ANPEREX CORP)	F129	FO...ENTIFIC, INC., THE
F079	FIBA LEASING COMPANY, INC.	F130	FIL...CONTROLS CO.
F080	FENWALL ELECTRONICS CO.	F131	FLUIDYNAMICS DEVICES, LTD.
F081	FENWALL, INC.	F132	FLUID COMPONENTS, INC.
F082	FERGUSON STEEL CO., INC.	F133	FOUR M STEEL INDUSTRIES, INC.
F083	FERGUSON MACHINE CO.	F134	FLO-TEK INC
F084	FIBERGRATE CORP.	F135	FISHER GOVERNOR
F085	FERMONT DIV	F136	FLEX-WELD, INC.
F086	FIBERCAST COMPANY	F137	FLUKE, JOHN MANUFACTURING COMPANY

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CODE VENDOR NAME

 F138 FLANGERKLAMP CORP.
 F139 FORCE CONSTRUCTION INC.
 F140 FISHER PIERCE DIV
 F141 FISHER SCIENTIFIC
 F142 FITE-SIMONS & CONNELL DREDGE & DOCK
 F143 FLAGG, C. N. COMPANY
 F144 FORD MOTOR CO.
 F145 FLAKICE
 F146 FLORIDA STEEL CORP.
 F147 FLASH TECHNOLOGY CORP
 F148 FLYGT CORP.
 F149 FOSTER ENGINEERING INC.
 F150 FLANDERS FILTERS, INC.
 F151 FLEX KLEEN
 F152 FLEXALIGN CO.
 F153 FLEXITALLIC
 F154 FLUIDICS TECHNIQUES INC.
 F155 FLEXONICS DIV-CORP.
 F156 FLEXICORE COMPANY, INC., THE
 F157 FLINT STEEL CORPORATION
 F158 FLICK REEDY CORP.
 F159 FLOOD, WALTER A., & COMPANY
 F160 FLINT STRUCTURAL STEEL
 F161 FLORIDA BOLT & NUT CO.
 F162 FLORIDA POWER CORPORATION
 F163 FLORIDA POWER & LIGHT COMPANY
 F164 FLOWLINE CORP.
 F165 FLUID DYNAMICS CORPORATION
 F166 FLOWMATIC
 F167 FLUID CONTROLS CORP.
 F168 FLOW MEASUREMENT SYSTEMS
 F169 FLUID KINETICS CORPORATION
 F170 FLUOR PIONEER INC.
 F171 FLUORCARBON CO.
 F172 FMS CORP.
 F173 FLUID LINE ENGINEERING, INC.
 F174 FOSTER, L.B. CO.
 F175 FOSTER WHEELER
 F176 FLOW PRODUCTS.
 F177 FLORI PIPE COMPANY
 F178 FOSDICK MACH.
 F179 FORNEY ENGINEERING CO.
 F180 FOXBORO CO., THE
 F181 FRABIMOR EQUIPMENT & CONTROL
 F182 FOSTERS IRON WORKS
 F183 FRAM CORP.
 F184 FOSTER, J.N., INC.
 F185 FRAMATOME (FRANCE)
 F186 FOSTER-WHEELING COMPANY
 F187 FRANCE PACKING CO.
 F188 F-P-E PIONEER ELECTRIC, LTD.

CODE VENDOR NAME

 F189 FORM SPRAY CO.
 F190 FRANKLIN ELECTRIC
 F191 FRANKE TILE COMPANY
 F192 FLOW FLEX ENGINEERING CO.
 F193 FOLEY, HOWARD P. CO.
 F194 FORNEY INC.
 F195 FRANKLIN INSTITUTE RESEARCH LABS
 F196 FOOTE-JONES CO.
 F197 FLO-TORK INC.
 F198 FLOW TECH CORP.
 F199 FORDERER CORNICE WORKS
 F200 FRANKLIN MILLER, INC.
 F201 FRANK ELECTRIC CO.
 F202 FRASSE, PETER A., & CO. INC.
 F203 FRAY WELDING CO.
 F204 FRED L. TOURTELOT CO. (SEE T227)
 F205 FREDERICK & CO.
 F206 FRESSEN BROTHERS INC.
 F207 FREIDMAN, A.J. SUPPLY
 F208 FORMSPRAG-MT. PLEASANT
 F209 FRES INC.
 F210 FREQUENCY CHANGE
 F211 FREE INSTRUMENTS
 F212 FROMSEN HEAT TRANSFER LTD (CANADA)
 F213 FROST ENGINEERING
 F214 FRITAG-WEINHARDT, INC.
 F215 FRUEHAUF TRAILER
 F216 FROMMELT INDUSTRIES
 F217 FRUCO ASSOCIATES
 F218 FRUIN-COLNOR CONSTRUCTION COMPANY
 F219 FOSTORIA INDUSTRIES INC.
 F220 FUEL MANAGEMENT CORP.
 F221 FLOW-QUIP INC.
 F222 FREQUENCY TECHNOLOGY INC.
 F223 FUSE INDICATOR, CORP.
 F224 FUELLGRAPP ELECTRIC CO.
 F225 FUEL TRAC
 F226 FUEL ECONOMY ENGINEERING COMPANY
 F227 FULFLO SPECIALTIES
 F228 FABRICATOR INC.
 F229 FULLER-AUSTIN INSULATION CO., INC.
 F230 FULLER CO.
 F231 FULTON SHIPYARD
 F232 FULTON SYLPHONE CO.
 F233 FULLERTON ENVIRONMENTAL SYSTEMS
 F234 FURNAS ELECTRIC CO.
 F235 FYR-FYTER CO.
 F236 FURMANITE CO.
 F237 FORD WIRE PRODUCTS
 F238 FOURNIER & ASSOC (TRANSDATA INC)
 F239 FREDRIKSEN & SONS FIRE EQUIP CO INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
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F240	FUTURECRAFT CORP	G045	GAULIN CORP.
F241	FRANK, MILTON S. CO INC	G046	GAST MANUFACTURING CORP.
F242	POSTEP FLOORING CORP	G047	GAYNES
F243	FULL LINE FABRICATING INC	G048	GELMAN INSTRUMENT CO.
F244	FISCHBACK & MOORE ELECTRN CNTRL INC	G049	GEDNEY, O.E., CO.
F300	FLAMEMASTER CORP.	G050	GENS, INC.
F335	FLORIDA COMPUTER, INC.	G051	GEDNEY ELECTPIC
G001	G & W ENERGY PRODS GROUP	G052	GEM CORP.
G002	G & W EAGLE SIGNAL	G053	GE MARINE TRUBIN & GEAR DEPT
G003	G. E. SUPPLY CO.	G054	GEIGER CONSTRUCTION PRODUCTS, INC.
G004	G-V CONTROL	G055	GEN AMER TRANS CORP
G005	G & W ELEC SPECIALTY	G056	GEMINI VALVE CO
G006	GABLE, D.R. ENGINEERING CO., INC.	G057	GLOBAL ENGG DOCUMENTS SYSS
G007	G.K. ENTERPRISES	G058	GENELCO INC
G008	GACO MFG-DIV OF GADDIS PBT CORP.	G059	GASTON COUNTY DYEING MACHINE CO
G009	GAGE LAB CORP.	G060	GEN DEVICE & FITTING
G010	GAI-TRONICS CORP.	G061	GEORATOR
G011	GAL MFG CORP	G062	GENERAL AIR CONDITION CORP.
G012	GALE ALLOY CORP.	G063	GENERAL ATOMIC CO.
G013	GALLOWAY, G.W. CO.	G064	GLESNER INDUSTRIAL SUPPLY
G014	GALLAGHER, R.J. CO.	G065	GENERAL CABLE CORP.
G015	GALIGHER CO.	G066	GEN ELECTRIC SUPPLY CO
G016	GANEWELL MECHANICAL INC	G067	GLOBAL POWER CO
G017	GALLAND-HENNING	G068	GEN STEEL FAB CO INC
G018	GATELEY STAINLESS & ALLOY CO	G069	GAYLORD MFG CO
G019	GENERAL PUMP & EQUIPMENT CO	G070	GENERAL CONCRETE CO.
G020	GAMAH DIV.	G071	GAUTHIER SHEET METAL INC
G021	GAM RAD INC.	G072	GENERAL CONTROLS
G022	G.B.G. INC	G073	GENERAL DIMENSIONS
G023	G C A CORP (PAR SYSTEMS CORP)	G074	G.A. MASONRY
G024	G E C ENERGY SYSTEMS LTD (ENGLAND)	G075	GENERAL DYNAMICS
G025	GAMMA INDUSTRIES, INC.	G076	GENERAL EASTERN CORP.
G026	GARNEY CO.	G080	GENERAL ELECTRIC CO.
G027	GAS DRYING INC	G081	GENERAL ELECTRIC TECHNICAL SERVICES
G028	GARDCO MANUFACTURING CO.	G082	GENERAL ELECTRIC CORP. (NUCLEAR ENG DIV.)
G029	GARRETSON-ELMENDORF-EINOV-REIBIN ARCH ENGR	G083	GENERAL ELECTRIC CO (SAN JOSE MOTOR PLANT)
G030	GAMMA PROCESS CO., INC.	G084	GEN ELEC CO (STEAM TURB/ENGRD PROD)
G031	GAP INSTRUMENT CORP.	G085	GENERAL ENERGY RESOURCES, INC.
G032	GARDEN CITY FAN & BLOWER CO.	G090	GENERAL EQUIPMENT & MFG
G033	GARRETT, GEORGE K. CO.	G093	GENERAL FIRE EXTINGUISHER CORP.
G034	GARCHEM ENERGY CORP.	G094	GENERAL KINEMATICS CORP.
G035	GARDNER-DENVER	G095	GENERAL FIREPROOFING
G036	GARDNER, PAUL N., CO.	G096	GENERAL GASKET
G037	GARRET AIR RESEARCH MFG CO.	G097	GENERAL INDUSTRIAL SUPPLY
G038	GARROTT BRASS	G098	GENERAL IONICS
G039	GATES RUBBER CO.	G099	GENERAL METERS AND CONTROL COMPANY
G040	GARLOCK, INC.	G100	GENERAL MOTORS
G041	GASSER E.R. & ASSOC. CONSULTING SERVICES	G105	GENERAL NUCLEAR INC.
G042	GARRETT FLUID COMPONENTS	G110	GENERAL PHYSICS CORP.
G043	GATEWAY - CHILSTROM	G111	GENERAL PORTLAND, TRINITY DIVISION
G044	GATE CITY STEEL	G112	GENERAL PRECISION INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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G113	GEN PARTITIONS MFG CORP	G173	GOODALL RUBBER CO.
G115	GENERAL RADIO	G174	GOODMAN, GEORGE, CO.
G120	GENERAL RAILWAY SIGNAL	G175	GORDON, CLAUD S. CO.
G122	GENERAL RUBBER CORP.	G176	GOODALL ELECTRIC INC.
G125	GENERAL REGULATOR CORP.	G177	GONVAL INC.
G126	GENERAL RESISTANCE	G178	GLASER & ASSOCIATES, INC.
G127	GENERAL STEEL CO.	G179	GORDON, HARRY STEEL CO.
G128	GENERAL SIGNAL	G180	GORMAN RUPP
G130	GENERAL TRANSDUCER	G181	GOYEN CONTROLS OF AMERICA, LTD.
G131	GENUINE TOOL CO., INC.	G182	GOULD INC.
G132	GEORGIA POWER COMPANY	G183	GOULD HEATING ELEMENT DIV
G133	GENRAD INC.	G184	GOULD BROWN BOVERI COMPANY
G134	GEORGIA IRON WKS CO	G185	GOULD-NATIONAL BAIT
G135	GEOSCIENCE, LTD.	G186	GORDOS CORP
G136	GLITSCH, INC.	G187	GOULD SWITCHGEAR DIVISION
G137	GLASCO CORP	G188	LYNE PUMP CO.
G138	GLOBE AMERADA GLASS CO	G189	GOULD, J.D. CO INC
G139	GERAND	G190	GOULDS MANUFACTURING
G140	GEOTECH	G191	GOULDS INC. (INDUSTRIAL BATTERY DIV)
G141	GHEM CHEM ENGINEERING CORP.	G192	GOULD INC. (POWER SYS DIV)
G142	GILBERT, CHARLES CO INC	G193	GIFFELS ASSOC INC
G143	GIANT CONSTRUCTION CO.	G194	GOULD INC (VALVE & FITTINGS DIV)
G144	GIBSON APPLIANCE CORP.	G195	GOULDS CO.
G145	GIBBS & HILL, INC.	G196	GLOBAL STEEL PRODE CORP
G146	GIDDINGS & LEWIS MACHIN& CO.	G197	GILBERT, FRED C. CO
G147	GIFFORD-HILL AMERICAN	G198	GEM EQUIP CO INC
G148	GIFFORD-HILL & CO., INC.	G199	GEORGETOWN STEEL CORP
G149	GILBAR CO., INC.	G200	GOULDS PUMPS INC.
G150	GILBERT ASSOCIATES, INC.	G201	GRACE CONSTRUCTION PRODUCTS
G151	GILBERT & BAKER MANUFACTURING CO.	G202	GPE CONTROLS
G152	GILBERT MANUFACTURING CO.	G203	GRANCO CO.
G153	GIMBEL MACHINE WORKS	G204	GIBSON, R.H. ASSOC
G154	GIRDLER FOUNDATION & EXPLORATION CO.	G205	GRACE, W. R. COMPANY
G155	GLADSTONE LABORATORIES, INC.	G206	GRACO INC.
G156	GISHO ENGINEERED CONTROL SYSTEMS	G207	GRAN-CAL, INC.
G157	GIMFEL MACHINE WORKS INC.	G208	GRAPHICS CONTROLS CORP.
G158	GLASTIC CORP.	G209	GRAPHICS DIVISION
G159	GLEASNER-MARDWELL CO.	G210	GRAHAM MFG CO.
G160	GLEASON REEL & CO.	G211	GRATING PACIFIC IN.
G161	GLOBAL LAGGING INC.	G212	GRANGER, W. W. COMPANY
G162	GLOBE INDUSTRIES INC.	G213	GRAHAM WHITE SALES CORP.
G163	GLOBE ELECTRIC	G214	GRANT GEAR WORKS
G164	GLIDDEN CO.	G215	GRAVER TANK & MFG CO.
G165	GLEASON, J.L. & CO.	G216	GRANSDEN HALL & CO.
G166	GLEN CONTROLS IN.	G217	GRAY-HODGES CORP
G167	GODDARD MANUFACTURING CORP.	G218	GIFFITH-HOPE CO
G168	GOLDEN GATE SWITCHBOARD CO.	G219	GORING KERR INC
G169	GLYNN-JOHNSON CORP.	G220	GRAVER WATER CONDITIONING CO.
G170	GGLOB ANALYTICAL SERVICE CORP.	G222	GORDON ENGINEERING CO INC
G171	GOODYEAR RUBBER	G223	GRAYHILL
G172	GOODRICH, B.F. (CUTLASS BEARING DIVISION)	G224	GRAY HILLS CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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G225	GRAY TOOL CO.	G276	GRUNAU CO., INC.
G226	GRAY, EDWARD, CO.	G277	GULFGATE ENGINEERING INC.
G227	GRAY, J.S. CO.	G278	GULFALLOY CO.
G228	GRASIS CORP	G279	GTE AUTOMATIC ELECTRIC CO.
G229	GIM LANOTE FORGE	G280	GULF COMPUTER SCIENCES INC.
G230	GRAYBAR ELEC CO., INC.	G281	GULF SEAL CORPORATION
G231	GARRETT PNEUMATIC SYSTEMS	G282	GREENS STEEL COMPANY
G232	GRAYWOOD	G283	TEO-CONSTRUCTION TESTING (FRMLY X005)
G233	GREER OLAER PRODUCTS DIVISION	G285	GULF DEGREMEONT INC (SEE D077)
G234	GREAT LAKES INSTRUMENTS INC.	G286	GRUNERT'S, NORMAN ENGG CONTR
G235	GREAT LAKES CARBON CORP.	G290	GA ELECTRONIC SYSTEMS DIV
G236	GREAT LAKES CONSTRUCTION CO.	G295	GULF ENERGY & ENVIRONMENTAL SYS-TRIGA RCTR
G237	GREAT LAKES DREDGE & DOCK CO.	G296	GUARDSMARK (MARK LIPMAN DIV)
G238	GREAT SOUTHWEST PAPER CO.	G300	GA ENVIRONMENTAL SYSTEMS DIV
G239	GREENHECK FAN & VENTILATION CORP.	G302	GUILDLINE INSTRUMENTS, INC.
G240	GREEN FUEL ECONOMIZER	G303	GULFALLOY, INC.
G241	GRIFFIN ENVIRONMENTAL CO INC	G305	GULF GENERAL ATOMIC (SEE G063)
G242	GRISWALD CONTROLS	G306	GULF OIL CORP.
G243	GRIFFIN WHEEL CO.	G307	GULF STATES TUBE CORP.
G244	GREEN, R. CONSTRUCTION CO.	G308	GULF SUPPLY
G245	GREEN, S. M. CO.	G309	GULF STATES UTILITIES CO.
G246	GREENE, ARNOLD	G310	GULF UNITED NUCLEAR FUELS CORP.
G247	GREENVILLE TUBES	G311	GULF & WESTERN MFG CO.
G248	GREMP STEEL	G312	GULF & WESTERN INDUSTRIAL PROD. CO.
G249	GRESEN MANUFACTURING CO.	G313	GULFEX INC
G250	GREER HYDRAULICS, INC.	G315	GULTON INDUSTRIES, INC.
G251	GREFCO, INC.	G316	GUNTERT AND ZIMMERMAN
G252	GREKE HEATING CO.	G317	GUMPERT, R.T.
G253	GREGORY SALISBURY METAL PRODUCTS, INC.	G318	GUNDERSON BROS ENGINEERING COMPANY
G254	GRIFFIN PIPE PRODUCTS	G319	GUNDLACH, T.J. MACHINERY CG.
G255	GRINNELL CORP.	G320	GUTH, EDWIN
G256	GRINNELL FIRE PROTECTION	G340	GUYAN MACHINE CO.
G257	GRINNELL INDUSTRIAL PIPING, INC.	G344	GUYON ALLOYS
G258	GRIFFIN CHEMICALS CO.	G345	GUYON, CHARLES F. INC.
G259	GRIMM LUMBER, INC.	G360	GTE LENKURT
G260	GRISCOM-RUSSELL	H001	HARRINGTON INDUSTRIAL PRODS INC
G261	GRIMES PIPE AND SUPPLY	H002	HACKENSACK BOLT & NUT CO INC
G262	GRIFFOYLN	H003	H & H STAINLESS MACHINE INC
G263	GRITS BROS. MFG. CO.	H004	H-H PRODUTCS
G264	GROW BROTHERS INCORP.	H005	HACH CHEMICAL CO.
G265	GROVE VALVE & REGULATOR CO.	H006	HACKE, HILL & LUMBER CO.
G266	GROGAN COMPANY (LUFLAND COMPANY)	H007	HACKNEY IRON & STEEL CO.
G267	GORGAN CO., M.S.	H008	HAERING, D.W. AND CO.
G268	GROTH EQUIPMENT	H009	HRM CONTROLS
G269	GREEN PAN CO.	H010	HAGAN CHEM & CONTROLS
G270	GROVER WATER COND CO.	H011	HAMERSLAG EQUIPMENT CO.
G271	GROVES, S.J. & SONS CO.	H012	HAKE, FRANK W. INC
G272	GTE SYLVANIA INC.	H013	HAMILTON-AVNET ELECTRONICS
G273	GUARDIAN ELECTRIC	H014	HAUSMAN STEEL CORP
G274	GUILBERT, INC.	H015	HAGAN CONTROLS
G275	GUINARD PUMP COMPANY	H016	HALES TESTING LABORATORIES

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CODE	VENDOR NAME
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H017	HAHN & CLAY MACHINE WORKS
H018	HALLIBURTON SERVICES
H019	HALSEY-TAYLOR CO.
H020	HAGAN/COMPUTER SYSTEMS
H021	HAGAN CORPORATION
H022	HAGER, WM
H023	HAIG CO.
H024	HAJOCA CORP.
H025	HAMILTON MANUFACTURING CO.
H026	HALE FORDEN ASSOCIATED.
H027	HALLER TESTING LAB
H028	HAJACK EQUIPMENT
H029	HAMILTON OF INDIANA
H030	HAMILTON, G.V.
H031	HAMILTON WELDING COMPANY
H032	HAHLIN
H033	HALOY INDUSTRIAL SUPPLY CO.
H034	HAMILTON WATCH CO.
H035	HAMMEL DAHL
H036	HAMNER ELECTRONICS COMPANY, INC.
H037	HANCOCK CO.
H038	HANDLING SYSTEMS INC.
H039	HAN, J.I. CO., INC.
H040	HANDLEY-BROWN
H041	HANKISON CORP.
H042	HANSEN SUPPLY
H043	HARCO CATHODIC PROTECTION DIVISION
H044	HARCO CORP.
H045	HARLO CORP.
H046	HARNISCHFEGGER CORP.
H047	HARDING CO.
H048	HANSON, ROY E JR., MANUFACTURING
H049	HARDINGE CO., INC.
H050	HARPER ELECTRIC FURNACE CORP.
H051	HAMILTON INDUSTRIES
H052	HALMAR ELECTRONICS INC.
H053	HANFORD FOUNDRY CO.
H054	H D ELECTRIC
H055	HARPER INC.-ITT
H056	HARPRING, ARTHUR C., INC.
H057	HARRIS CONTROLS
H058	HARRIS PREBLE CO.
H059	HARTMAN ELECTRICAL MFG (DIV A-T-OM INC)
H060	HARRISON MANUFACTURING CO.
H061	HEATH MANUFACTURING CO.
H062	HARRISON RADIATOR DIV
H063	HICKOK ELECTRICAL INSTRUMENT CO.
H064	HAMMOND VALVE CORP.
H065	HARSHAW CHEMICAL CO.
H066	HAMILTON & SON
H067	HANDCRAFT METAL CORP

CODE	VENDOR NAME
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H068	HEIDT EQUIP CO
H069	HARRISON & BONINI INC
H070	HARSHMAN ASSOC., INC.
H071	HARSCO CORP--IKG INDUSTRIES DIV
H072	HARTFORD STEAM BOILER CO.
H073	HARTFORD VALVE & FITTING CO.
H074	HARTMAN WALSH PAINTING
H075	HARTMAN, WM E.
H076	HARTMAN & BROWN, AGY
H077	HARTWIG MFG CORP.
H078	HARTCO SERVICES INC.
H079	HAWKINS CO., INC. THE
H080	HARTY, R.V. DIV
H081	HARTELL PROPELLER FAN CO.
H082	HYDREL CORP
H083	HARRINGTON CO
H084	HARVER INDUSTRIES, INC.
H085	HARVESTORE PROD, INC.
H086	HARVEY IND., INC.
H087	HARWILL CO.
H088	HALSTEAD INDUSTRIES INC
H089	HAELTINE CORP
H090	HARWOOD, INC.
H091	HARISONIC LABORATORIES INC
H092	HELDMAN TOOL SUPPLY INC
H093	HUNTERS STEEL CORP
H094	HAULENSTEIN & BURMHEISTER CO.
H095	HARZA, L.F. ENGG
H096	HAWAIIAN ELEC CO INC
H097	HASKEL ENGINEERING
H098	HASKELL, WM. CO.
H099	HASTINGS RAYDIST
H100	HATHAWAY INSTRUMENT
H101	HATTER, N.J.
H102	HAUGHTON ELEVATOR CO.
H103	HATLEY, JOHN T., CO.
H104	HATFIELD & CO.
H105	HAUSERMAN, E.F. CO.
H106	HATFIELD ELECTRIC CO.
H107	HAVEL BROS., INC.
H108	HATCH CO., INC. GORDON
H109	HAVEN STEEL CO.
H110	HAVEN-BUSCH CO
H111	HATCH INC.
H112	HAWBY FORGE CO.
H113	HATCO CORP.
H114	HAHN & CLAY MACHINE SHOP
H115	HAWS DRINKING FAUCET CO.
H116	HAWTHORNE MACHINERY CO.
H117	HARRISON & BONINI INC
H118	HAENNI INSTRUMENTS INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
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H119	HEIL PROCESS EQUIP (X-REF X012)	H170	HEYL-PATTERSON, INC.
H120	HAYDEN MFG CO.	H171	HEYWOOD-WAKEFIELD CO.
H121	HAYWARD MFG. CO. INC.	H172	HELIX PROCESS SYSS
H122	HAYDEN SWITCH & INSTRUMENT INC.	H173	HIGHLAND CONSTRUCTION CO., INC.
H123	HEALY, SNYDER, DEYOUNG & ASSOCIATES	H174	HIGHWAY EQUIPMENT CO.
H124	HAYES REPUBLIC CO.	H175	HI-PURITY MATERIALS, INC.
H125	HAYES CORP.	H176	HEXCEL CORP
H126	HAYES PUMP & MACHINE CO.	H177	H D R POWER SYSTEMS INC
H127	HAYWARD-TYLER PUMP CO.	H178	HICKINBOTHAM BROS LTD
H128	HCH ASSOCIATES	H179	HAAKE INC
H129	HEAT ENGINEERING & SUPPLY CO.	H180	HI-SHEAR CORP.
H130	HEALEY, W.E. & ASSOC.	H181	HYSPAN PRECISION PRODUCTS INC
H131	HEAT TRANSFER PRODUCTS	H182	HAMBLET & HAYES CO
H132	HEAT & POWER CORPORATION, INC.	H183	HILL BROS CHEMICAL
H133	HEINE CONSTRUCTION INC.	H185	HI-VOLTAGE EQUIP
H134	HEEDE INTERNATIONAL INC.	H186	HILDERBRANDT ENGINEERING CO., INC.
H135	HEALTH PHYSICS ASSOC., LTD.	H187	HICKEY, FRED
H136	HEARST METALLURGICAL RESEARCH LAB., INC.	H189	HIEN, LEWIS H. CO.
H137	HEALY RUFF CO.	H190	HIGH VOLTAGE ENGINEERING CORP.
H138	HEISE BOURDON TUBE CO.	H191	HILLF-MCCANNA COMPANY (SEE H195)
H139	HELGESON NUCLEAR SERVICES INC.	H192	HILLERY, H.R. CO.
H140	HELICOID GAGE CORP.	H193	HILLIARD CO.
H141	HEINEMANN ELECTRIC CO.	H194	HILLER INTERNATIONAL CORP.
H142	HECO PACIFIC	H195	HILLS-MCCANNA COMPANY (SEE H191)
H143	HELLAN STRAINER	H196	HILTI CORPORATION
H144	HENDERER	H197	HILTI FASTENING SYSTEMS
H145	HENDRIX WIRE & CABLE	H198	HILLER, RALPH A., CO.
H146	HENRY NEWGARD AND CO. (SEE H143)	H199	HIPOTRONICS INC
H147	HENRY, J.J. CO.	H200	HITACHI ELECTRIC
H148	HECON CORP.	H201	HIRATA VALVE INDUSTRY CO., LTD (JAPAN)
H149	HERCULES CONTAINER INDUSTRIES, INC.	H202	HISEY-WOLF MACHINE CO.
H150	HENSCHEL CORP	H203	HIRSCH, ARKIN, HERSHMAN (HAF 8HT MTL)
H151	HERCULES CONCRETE PILE COMPANY	H205	HITCO-MATERIALS DIV
H152	HERRON TESTING LABORATORIES INC.	H206	HOERRIGER CORP OF AMER
H153	HENDERSON ENGINEERING CO., INC.	H209	HOBART MANUFACTURING CO.
H154	HEIN, LOUIS H. CO.	H210	HITMAN NUCLEAR & DEVELOPMENT CORP.
H155	HERTNER, H. H. ELEC	H211	HOCKER INC.
H156	HERRMANN & SAFRANCK	H212	HOBART BROS. CO.
H157	HEVI-DUTY ELECTRIC CO.	H213	HOFFMAN ENGINEERING
H158	HENRY VALVE CO.	H215	HOFFMAN INDUSTRIES
H159	HENKE MFG CO.	H216	HODGES, WM CO INC
H160	HEWITT-ROBINS, INC.	H220	HOFFMAN INTERNATIONAL, INC.
H161	HENDERSON INDUSTRIES	H221	HOFFMAN SPECIALTY (ITT)
H162	HENDRICKS TILE MFG CO., INC.	H222	HOHMANN & BARNARD, INC.
H163	HERSEY PRODUCTS, INC. (INDUSTRIAL MEASURE)	H223	HOFFMAN AIR-FILTRATION, DIV CLARKSON INDUST
H164	HERCULES, INC-INDUSTRIAL SYSTEMS DEPT	H224	HOLCOMB & HCKE MFG CO., INC.
H165	HEWLETT-PARKARD CO.	H225	HOIST EQUIPMENT, INC.
H166	HENDERS BOILER & TANK CO.	H229	HOJ ENGINEERING
H167	HEX INDUSTRIES, INC.	H230	HOKI, INC.
H168	HEALTH PHYSICS SYSTEMS, INC.	H231	HOLBROOK-MERRILL CO.
H169	HENNES ERRECTING CO INC	H232	HOLLERAN, M.J., INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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H233	HOLLINGSWORTH SOLDERLESS TERMINAL CO.	H292	HUDGINS, ROBERT S., CO.
H235	HOLLISTER-WHITNEY	H293	HT PRODUCTS
H236	HONN, GEORGE E. CO.	H294	HUGHES MASONRY CO., INC.
H239	HOLMES, H.N. LABS	H295	HUBBARD & CO.
H240	HOLMES & NARVER, INC.	H296	HUBBELL, HARVEY INC.
H241	HOPFER INC.	H297	HUBBEL PROBES
H242	HORSBURGH & SCOTT COMPANY	H298	HUEBSCH
H243	HONALD, R.P. CO INC	H299	HUDSON FABRICATING & ENGINEERING CO.
H245	HOLOBEAM INC.	H300	HUGHES ELECTRONICS
H246	HOLO-KROME CO.	H301	HUMMEL BLDG CO.
H247	HOLSTER CONSTRUCTION INC.	H302	HUTTER CONSTRUCTION CO.
H248	HORN, A.C., INC.	H303	HOUGHTON CHEMICAL CORP.
H249	HOLOPHANE CO., INC.	H304	HUNTOON CORP.
H250	HOLOSONICS, INC.	H305	HUICO, INC.
H251	HOUSTON FABRICATORS	H306	HUMBOLT MFG CO.
H252	HOLT BROS.	H307	HUNTER CORPORATION
H253	HOLWERDA-HUIEINGA CO.	H308	HUNT VALVES
H254	HOLE RUBBER CO.	H309	HUNT, C.B. & SON
H255	HOLTEEN-CABOT ELEC	H310	HULL ASSOCIATES
H256	HOSKA CO.	H311	HUTCHINSON & GUNTER
H257	HOMESTEAD INC. - VALVE DIV	H312	HUMPHREY ELEVATOR & TRUNK CO.
H258	HOPKINSONS LIMITED	H313	HUNT, RODNEY CO.
H259	HORTON PROCESSING DIVISION INC.	H314	HUNTINGTON ALLOY COMPANY
H260	HONEYWELL CORP.	H315	HUNGERFORD & TERRY, INC.
H261	HOWDEN-PARSONS, LTD.	H316	HUNT, ROBERT W.
H262	HOUSE OF STAINLESS STEEL INC.	H317	HUSSMAN SAN FRANCISCO, INC.
H263	HOOVER QUALITY BALL BEARING CO.	H318	HURON INDUSTRIES
H264	HOOVER FABRICATING	H319	HUSKY PRODUCTS
H265	HOUSTON INSTRUMENT CO.	H320	HYDRAMET AMERICAN, INC.
H266	HOWARD, C.E. CORPORATION	H321	HYBRID SYSTEMS INC.
H267	HOWARD H. H. CO.	H322	HUPP CORP.
H268	HOWARD STEEL COMPANY	H323	HUYCK METALS CO.
H269	HOUSTON LIGHTING & POWER CO.	H324	HURON PORTLAND CO.
H270	HOWE-RICHARDSON SCALE	H325	HYDRAULIC RESEARCH
H271	HOUSTON FASTENERS	H326	HUSSMANN REFRIGERATION, INC.
H272	HOUDAILLE INDUSTRIES INC.	H327	HURST METALLURGICAL RESEARCH LABORATORY INC.
H273	HOOVER CONSTRUCTION CORP.	H328	HYDRO STEAM INDUSTRIES, INC.
H274	HOTMIX INC.	H329	HY-CAL ENGINEERING CO.
H275	HOWELL ELEC MOTORS	H330	HYDRIL
H276	HOUGH MFG CORP.	H331	HYDROAIRE INC.
H277	HOYT MFG CORP.	H332	HYDR-O-MATIC PUMP COMPANY
H278	HOYT-GRANT CO.	H333	HYDRO METAL INC.
H279	H.P.D. INC.	H334	HYDRO DYNAMICS
H280	HR FILTERS	H335	HYDRO-ASH CORP.
H281	HOOPER CONSTRUCTION CORP.	H336	HYDRO RESEARCH SCIENCE SERVICE
H282	HOWELL INSTRUMENTS, INC.	H337	HURST-ROSCHE ENGINEERING, INC.
H285	HRB	H338	HYDROCHEM CORPORATION
H286	HUNT PROCESS CO., INC.	H339	HYDROFLO CORPORATION
H287	H T L INDUSTRIES INC	H340	HYDRODYNE
H290	HRUDEN LABORATORY PRODUCTS	H341	HYDROMATION ENGINEERING CO.
H291	HUDSON PRODS CORP	H342	HYDROMATION FILTER CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
H343	HYDRO LINE MFG CO.	I047	INDUSTRIAL FILTER CO.
H344	HYDRO PRODUCTS	I048	INDUSTRIAL INSPECTION INC.
H345	HYER INDUSTRIES INC.	I049	INDUSTRIAL MECHANICS
H349	HYGROMETRIX, INC.	I050	INDUSTRIAL NUCLEONICS CORP.
H350	HYGRODYNAMICS INC.	I051	INDUSTRIAL ENGINEERING WORKS
I001	ILLINOIS BEARING CO.	I052	INDUSTRIAL MATERIALS CORP.
I002	ILLINOIS BELL TELEPHONE	I053	INDUSTRIAL INSTRUMENT
I003	IMPERIAL COATINGS CORP.	I054	INDUSTRIAL ELECTRICAL WORKS
I004	I.T.E IMPERIAL POWER EQUIPMENT CO.	I055	INDUSTRIAL PROCESS ENGINEERING
I005	I-T-E CIRCUIT BREAKER	I056	INDUSTRIAL CLEAN AIR
I006	IMPERIAL COATING OF TEXAS	I057	INDUSTRIAL WELDING EQUIP CO.
I007	I.T.T. BARTON, INC.	I058	INDUSTRIAL AIR TOOL
I008	IDEAL CABINET CO., INC.	I059	INDUSTRIAL FABRICATING, INC.
I009	IDENTIPRINT CO.	I060	INDUSTRIAL REACTOR LABORATORIES, INC.
I010	IBM CORP.	I061	INDUSTRIAL PLASTIC FABRICATORS, INC.
I011	IDEAL ELECTRIC AND MANUFACTURING CO.	I062	INDUSTRIAL AIR, INC.
I012	IDEAL FORGING CO.	I063	INDUSTRIAL TIMER CORP.
I013	IKG INDUSTRIES	I064	INDUSTRIAL SALES CO.
I014	IDEAL TOOL AND MANUFACTURING	I065	INDUSTRIAL RUBBER PRODUCTS
I015	ILC TECHNOLOGY	I066	INDUSTRIAL SERVICE CO.
I016	ILG ELECTRICAL & VENTILATING CO.	I067	INDUSTRIAL STAINLESS STEEL, INC.
I017	ILG INDUSTRIAL	I068	INDUSTRIAL VALVE & INSTRUMENT CO.
I018	ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	I069	INFILCO, DIV WESTINGHOUSE
I019	IMPERIAL PROFESSIONAL COATING	I070	INGALLS IRON WORKS
I020	ILLINOIS WATER TREATMENT CO.	I071	INFILCO DEGREMONT, INC.
I021	INCOR INSTRUMENTATION INC.	I072	INFLO RESOMETRIC SCALES, INC.
I022	ILLINOIS RAILWAY EQUIPMENT CO.	I073	IDE PROCESS CORP. (NOISE CONTROL DIV)
I023	ILLINOIS PAINTING CO.	I074	ILLINGWORTH ENGG INC
I024	ILLINOIS POWER CO.	I075	INGERSOL-RAND CO.
I025	IMEACON CONSULTANTS	I076	INLAND INDUSTRIAL BLDG
I026	INDIANA GENERAL	I077	INLAND STEEL
I027	IMPERIAL-EASTMAN CORP.	I078	IPSCO CORP (IND PIPING SUP CO)
I028	INDIANA BRIDGE CO.	I079	IND AIR PRODS INC
I029	IMPERIAL STEEL TANK CO.	I080	INRYCO, INC (INLAND-RYERSON CONST PROD CO)
I030	IMPERIAL ELEC. CO.	I081	INSTITUTE OF NUCLEAR POWER OPERATIONS
I031	INDRECO	I082	INSTITUTIONAL EQUIPMENT CORPORATION
I032	INDIANA & MICHIGAN ELECTRIC CO.	I083	INSTITUTE OF ELECTRICAL & ELECTRONIC ENG.
I033	INDIKON	I084	INSTRUMENTS INC.
I034	INDUSTRIAL ACOUSTICS CO., INC.	I085	INSTITUTE FOR RESOURCE MANAGEMENT, INC.
I035	INDUSTRIAL BROWNHOIST	I086	INSTRUMATICS INC.
I036	INDUSTRIAL BIO-TEST LABORATORIES, INC.	I087	INSTRUMENT ASSOC.
I037	INDUSTRIAL CONCEPTS CORP.	I088	INSTRUMENT SYSTEMS CO.
I038	INDUSTRIAL AIR CO.	I089	INSTRUMENTS DISPLAY INC.
I039	INDUSTRIAL ELECTRIC REELS INC.	I090	INSTRUMENT TECHNOLOGY, INC.
I040	INDUSTRIAL ELEC & TRANS	I091	INSTRUMENTS CORPORATION OF AMERICA
I041	INDUSTRIAL ELECTRICAL MANUFACTURING, INC.	I092	INSTRUMENTATION LABORATORY INC.
I042	INDUSTRIAL ENGINEERING CONSTRUCTION SVC.	I093	INSTRUMENT SPECIALTIES
I043	INDUSTRIAL DESIGN INCORP.	I094	INSTRUMENT AIR
I044	INDUSTRIAL FIBERGLASS INC.	I095	INSUL-B-CORP.
I045	INDUSTRIAL ENGINEERING AND EQUIPMENT	I096	INTERIOR STEEL EQUIP CO
I046	INDUSTRIAL ERECTORS INC.	I097	INDEPENDENCE TUBE CORP

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CODE	VENDOR NAME	CODE	VENDOR NAME
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I098	IND SOLID STATE CONTROLS INC	I153	INGERSOLL JOHNSON STEEL CO
I099	INDUSTRIAL CONTRACTOR INC	I154	INGALLS ASSOC
I100	INSULATION SYSTEMS INC.	I155	INTERSTATE INDUSTRIAL UNIFORM RENTAL SERV.
I101	INTEGRAL STRUCTURES CO.	I156	ITT JENNINGS (ITT CP)
I102	INTELCOM RAD TECH	I157	INSULATION SVSS INC
I103	INTERDATA, INC.	I158	ITT REGELUNGSTECHNIK (W. GERMANY)
I104	INTECH, INC.	I159	INTERSTATE ELECTRIC CONTRACTING INC
I105	INTERDEVELOPMENT, INC.	I160	INTERSTATE LAUNDRY & DECONTAMINATION SERV.
I106	INTEGRAL BONDING SYSTEMS	I161	INTERSTATE POWER CO.
I107	INTELLIGENT SYSS CORP	I162	INTERTEC CORP.
I108	INTERMOUNTAIN PETROLEUM CO	I163	INTERSTATE STEEL SUP CO
I109	INDIANA FIRE PREVENTION INC	I164	INTECO
I110	INTEREX CORP.	I165	INTERTECHNIQUE INSTRUMENTS, INC.
I111	INTERMATIC INC.	I166	INDIANA GRATINGS INC
I112	INDUSTRIAL ALLOYS INC	I167	INDIANA STEEL FABRICATING INC
I113	INTERCONTINENTAL CONSTRUCTION CO.	I169	ION TRACK INSTRUMENTS, INC.
I114	INTERLOCK CORPORATION	I170	INTSEL CORP.
I115	INTERNATIONAL CHEMICAL & NUCLEAR CORP.	I171	IN-VAL-CO
I116	INTERNATIONAL CORP.	I172	INVENTORY SERVICES PLANNING GROUP
I117	INTERNATIONAL CAR CO.	I173	INVENTRON INDUSTRIES INC.
I118	INTERNATIONAL CRYSTAL MFG CO.	I174	INVENTRON
I119	INTEL CORP	I175	IONICS, INC.
I120	INTERNATIONAL DERRICK	I177	IOWA ELECTRIC LIGHT & POWER CO.
I121	ICN PHARMACEUTICALS INC	I178	IOWA VALVE CO.
I122	INMAC-INT'L MINICOMPUTER ACC. CORP	I179	I.R.C.
I123	ILLINI COMPUTER SITE CONTRACTORS	I180	IPAC GROUP, INC.
I124	IMPERIAL WELD RING CORP	I181	IRSAY, ROBERT, INC.
I125	INTERNATIONAL HARVESTER	I182	ISHIKAWAJIMA HARIMA INC. (IHI-JAPAN)
I126	INTERNATIONAL INDUSTRIAL FAN INC	I183	IRWIN STEEL
I128	INTERNATIONAL FABRICATORS INC.	I184	ISETT, C.B., & SON, INC.
I129	INTERNATIONAL EQUIPMENT	I185	ISOLAB INC.
I130	INTERNATIONAL INSTRUMENTS, INC.	I186	IRON & STEEL CONTRACTING CO.
I131	INTERNATIONAL IRON WORKS INC.	I187	ISRAEL ELECTRIC CO
I132	INTERNATIONAL METAL PRODUCTS, INC.	I188	ISRAEL ELECTRIC CORP LTD (ISRAEL)
I133	INTERNATIONAL SENSOR TECHNOLOGY	I190	ISOMEDIX, INC.
I134	INDEX POWER EQUIP CO	I191	IRD MECHANALYSIS
I135	INTERNATIONAL NUCLEAR CO.	I192	ITT GRINNELL VALVE CO INC
I136	INDUSTRIAL STEAM DIV	I193	IRT CORP
I137	INTERNATIONAL NUCLEAR SAFEGUARDS INC.	I194	ITT HARPER
I140	INTERNATIONAL NUTRONICS, INC.	I195	ISOMET CORP.
I141	INTERNATIONAL SUPPLY	I196	ISOTHERM CO.
I142	INTERNATIONAL POWER MACHINES CORP.	I197	ISOTHERMICS INC.
I143	INTERNATIONAL RECTIFIER	I198	ITT PHILLIPS DRILL CO.
I144	INTEX, INC.	I199	ITT PNEUMOTIVE
I145	INTERNATIONAL STACKY	I200	ISOTOPE PRODUCTS LABORATORIES
I147	INTERNATIONAL SWITCHBOARD CORP.	I201	IOSSI, EDQIN W. PAINTING & DECORATING INC.
I148	INTERNATIONAL STEEL CO.	I202	ITE IMPERIAL CORPORATION
I149	INTERNATIONAL TELEPHONE & TELEGRAPH CORP.	I203	I-T-E CIRCUIT BREAKER (CANADA)
I150	INTERNATIONAL THERMA' INSTRUMENT CO.	I204	ITT-BARTON
I151	ITT SYNDER	I205	ITHACO, INC.
I152	INTERFACE CORP/PULSE FEEDER DIVISION	I206	ITT GENERAL CONTROLS

CODE	VENDOR NAME	CODE	VENDOR NAME
1207	ITT GRINNELL	J053	JET AIR INC
1208	ITT HAMMEL DAHL CONOFLW	J054	JET AERATION COMPANY
1209	ITT PHILLIPS DRILL DIVISION	J055	JESSOP STEEL CO.
1210	ITT SUPRENANT	J056	JIM-MICHEL BLDG SPECIALTIES INC.
1211	ITT FLUID HANDLING DIVISION	J057	JO-BELL PRODUCTS
1212	ITE/GOULD	J060	JOHNS-MANVILLE CORP.
1213	I U CONVERSION SYSTEMS INC.	J065	JOHNSON & HIGGINS
1214	INDUSTRIAL WELDING EQUIP SUPPLY CO. (IWECO)	J067	JOHNSON AIR BELT CLEANER
1215	ITT CANNON ELECTRIC CO.	J068	JAKCO PUMP CO
1216	IMAGE SYSTEM INC.	J070	JOHNSON ASSOCIATES INC., E.R.
1217	IRON MOUNTAIN SECURITY STORAGE CORP.	J071	JOHNSON BLOCKS (DON HINDERLITER INC)
1218	ITT VULCAN ELECTRIC	J072	JOHNSON CORP.
J001	JACORY - TARBOX	J073	JOHNSON CONTROLS INC.
J002	JAMCO-WESTON	J075	JOHNSON DIVISION, U.O.P.
J003	JACUZZI TURBINE PUMPS	J076	JOHNSON ENGINEERING
J004	JAKES FOUNDRY CO.	J077	JOHNSON FIREPROOF DOOR CO., INC.
J005	JAMES & CO., FRED S.	J080	JOHNSON GEAR
J006	J & P PETROLEUM PRODUCTS	J081	JOHNSON, L. MARVIN & ASSOCIATES
J007	J.B.T	J082	JOHNSON MACHINE WORKS
J008	J.G. SALES CO., INC.	J083	JOHNSON-MEIER CO.
J009	JABSCO PRODUCTS, IIT.	J085	JOHNSON MANUFACTURING
J010	JAMES BURY CORP.	J086	JOHNSON-MARCH CORPORATION
J011	JACUZZI BROS. INC.	J087	JOHNSON METAL HOSE INC.
J012	JAMES, POND & CLARK DIV	J088	JOHNSON SHEET METAL WORKS INC.
J013	J & K ROILER	J090	JOHNSON SERVICE CO.
J014	JANOS ASBESTOS	J093	JOHNSON-WILLIAMS
J015	JAPAN STEEL WORKS (JAPAN)	J095	JOHNSON, ADOLPH
J016	JAMES, ALLAN P., CO., INC.	J096	JOHNSTON & JENNINGS CO.
J017	JAMISON DOOR CO	J100	JOHNSTON LABORATORIES, INC.
J018	JANOS INDUSTRIAL INSULATION CORP	J105	JOHNSTON PUMP CO.
J019	CHEMICAL FEED CONTROL SYSTEMS	J106	JOLIET VALVES INC
J020	JARVIS ENGINEERING	J107	JOLIET CONCRETE PRODUCTS
J021	JAY-EL PRODS INC	J108	JOLIET ENGINEERING COMPANY
J023	JAY INSTRUMENT & SPECIALITY CO.	J109	JORDON, MICHAEL A. & ASSOCIATES
J025	JEFFERSON ELECTRIC	J110	JONATHAN MANUFACTURING CO.
J030	JEFFERY-DEWITT INS CORP.	J111	JONES, J.A. CONSTRUCTION CO.
J031	JEFFREY HARDWARE INC	J112	JONES & LAUGHLIN
J032	J.S.G. ELECTRIC CO	J113	JONES & MCKNIGHT, INC.
J033	JEFFERY MANUFACTURING CO.	J114	JORDON CONTROLS CO.
J034	JENKINS BROTHERS COMPANY	J115	JORDAN NUCLEAR CO.
J035	JELCO INC.	J116	JORDON VALVE CO.
J036	JENKINS VALVE CORP.	J117	JORGENSEN, EARLE M. COMPANY
J037	JENSEN INSTRUMENT	J118	JOSAM CO.
J038	JENN-AIR CORP.	J119	JORDAN COMMERCIAL REFRIGERATION CO.
J039	JERN INDUSTRIES	J120	JOSLYN MFG & SUPPLY
J040	JERGUSON GAGE & VALVE CO.	J121	JORTH HILLS ELECTRONICS
J041	JENKINS, W.L. CO.	J122	JORGENSEN & COMPANY
J042	JENKINS & BOILER CO., INC.	J123	JONES, HOWARD BATTERIES, INC.
J045	JERPAK-BAYLESS CO.	J124	JOY, CLARKE H., CO.
J047	JERSEY CENTRAL POWER & LIGHT COMPANY	J125	JCSLYN STAINLESS STEELS
J050	JERSEY NUCLEAR CO., INC.	J126	JOVI-LEER, DR. ING.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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J127	JOY MANUFACTURING CO.	K042	KENNE CORP.
J128	JOY PETROLEUM EQUIPMENT CO.	K043	KEELER & LONG
J129	JPM INDUSTRIES	K044	KEARNY & TRECKER
J130	JRB ASSOC., INC.	K045	KEITHLEY INSTRUMENTS, INC.
J134	JULIAN ELECTRIC CO.	K046	KEELER, E. CO., (SABER BURNER DIV)
J136	JUNO INDUSTRIES	K047	KEL-HIM
J137	JUST MANUFACTURING CO.	K048	KELLY DOCK, MCCORMACK EQUIPMENT CO.
J138	JUSTIN TANKS	K049	KELLY BOARDS MCCORMACK EQUIPMENT CO.
J139	JUSTIN AMERICAN CORP.	K050	KELLOGG-AMERICAN, INC.
J140	JUSTIN ENTERPRISE	K051	KEITH-FREIBUSCH ASSOCIATES, ENGINEERS
K001	K V B EQUIPMENT CORP.	K052	KELLEY CO., INC.
K002	KACENA CO.	K053	KENAM PIPE & SUPPLY CO.
K003	K-F DEVELOPMENT CO.	K054	KELSO-BURNETT ELECTRIC CO.
K004	KARGARD IND INC	K055	KELLOGG, M.W. CO., THE
K005	KAHN & CO.	K056	KEANE CONTROL CORP.
K006	KAHLISCO INTERNATIONAL CORP.	K057	KELLY, CHARLES D., CO.
K007	KAISER ALUMINUM & CHEMICAL SALES, INC.	K058	KELLY, D.H. CO.
K008	KAISER CEMENT & GYPSUM CORP.	K059	KENNECOTT DEVELOPMENT CO.
K009	KANSAS ARCHITECTURAL MILLWORK, INC.	K060	KELLY PIPE CO.
K010	KAISER ENGINEERS	K061	KENTUCKY METAL PRODUCTS CO.
K011	KAISER SAND & GRAVEL	K062	KENOSHA BOILER & STRUCTURAL CO.
K012	KAISER STEEL CO.	K063	KENON CO.
K013	KALART VICTOR CORP	K064	KEMP MFG CO.
K014	KAISS CO.	K065	KELLY, O.G. CORP.
K015	KALAMAZOO T & S	K066	KELVINATOR INC.
K016	KALWALL CORP.	K067	KENEMATICS
K017	KANSAS SHEET METAL CO., INC.	K068	KEMP, C.M., CO.
K018	KARLESKINT-CRUM II C	K069	KENTON EQUIPMENT CO.
K019	KANWELD WELD EQUIP & SUP CO	K070	KENCO, INC.
K020	KAHAN SCIENCES CORP.	K071	KENTUCKY CONCRETE PIPE CO.
K021	KANTO VALVE CO.	K072	KENETT CORP.
K022	KATES, W.A. CO.	K073	KENDALL
K023	KATELEMAN FOUNDRY	K074	KENHARD CORP.
K024	KANSAS GAS & ELECTRIC CO.	K075	KENNEDY VALVE MFG CO.
K025	KATO ENGINEERING	K076	KENNEDY TANK MANUFACTURING CO.
K026	KARN CHEMICAL EQUIPMENT CO.	K077	KENTILE, INC.
K027	KARTHAUSER CO.	K078	KEPCO
K028	KARKAR ELECTRONICS	K079	KEONIG, C.J., CO., INC.
K029	KENNEDY VAN SAUN CORPORATION	K080	KERITE CO., THE
K030	KAVLICO ELECTRONICS INC.	K081	KETRING PRODUCTS
K031	KAW VALVE & FITTING CO.	K082	KENDRICKS TILE MFG CO., INC.
K032	KAY-RAY INC.	K083	KEROTEST CONSOLIDATED
K033	KAWNEER CO., INC.	K084	KENEAC COMMUNICATIONS
K034	KAYE INST. INC.	K085	KEROTEST MANUFACTURING CORP.
K035	KAWECKI BERYLCO INDUSTRIES, INC.	K086	KENWAY, INC.
K036	KAY DEE	K087	KENTUCKY UTILITIES CO.
K037	KAWIN, CHARLES C., CO.	K088	KLEIN DICKERT OSHKOSH, INC.
K038	KAWNEER-LOCKWOOD GLASS	K089	KELLERS, INC.
K039	KAYRO PRECISION CASTING CORP.	K090	KERR MACHINERY CO.
K040	KEARNEY, J.R.	K091	KENTUCKY ELEC STEEL CO
K041	KECKLEY, Q. C. COMPANY	K092	KRMCO UNIT CONTROL INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
K093	KERN STEEL FABRICATION INC	K147	KINNEAR CORP.
K094	KEPNER PROD	K148	KIRBY BLDG SYSTEMS
K095	KERR-MCGEE CORP.	K149	KING-FISHER CO.
K096	KOERNER ELECTRIC MOTORS	K150	KIRK & BLUM
K097	KIRBY, H. J. CORP	K151	KNITTER, RAY ASSOC INC
K098	KINGSTON, F. C. CO	K155	KIRK, MORRIS P. & SONS, INC.
K100	KERRIGAN IRON WORKS	K156	KLAUS RADIO INC
K101	KESLING METAL WORKS	K157	KROHNE-AMERICA
K102	KEUFFLE & ESSER	K158	KNIGHT, MAURICE A. CO
K103	KESLER-ELLIS PRODUCTS CO.	K160	KIRKHOF ELECTRIC
K105	KEVEX CORP.	K161	KOESTER & ASSOC., INC.
K106	KEYSTONE GROUP	K162	KRAUTKRAMER-BRANSON, INC.
K107	KANSAS POWER & LIGHT CO (TOPEKA)	K163	KNAUF FIBER GLASS GMBH
K108	KEY PIPE & SUPPLY CO	K164	KISTLER-MORSE CORP.
K109	KENTUBE DIVISION (TRANER INC)	K165	KIROMAC MANUFACTURING
K110	KEWAUNEE MFG	K166	KUETTEL, A. W. & SONS INC.
K112	KEYSTONE ELECTRICAL MANUFACTURING COMPANY	K167	KIRSCH, VIC, CONSTRUCTION CO., INC.
K113	KEYLAND NAME PLATE INC.	K168	KISSICK CORP.
K114	KEYSTONE COMPRESSOR CO.	K169	KRACK CORP.
K115	KEWAUNEE SCIENTIFIC EQUIPMENT CORP.	K170	KISTLER INSTRUMENT CO.
K116	KEYSTONE VALVE CO.	K171	KITE CO.
K117	KEYSTONE PIPE AND SUPPLY CO	K172	K & K MACHINING, INC.
K118	KEYSTONE REES INC.	K173	KLAUS, F. CO.
K119	KICKHAM BOILER & ENGINEERING, INC.	K174	KNOPP, INC.
K120	KIDDE, WALTER & CO.	K175	KLEIN, SCHANELIN AND BECKER
K121	KIENE DIESEL ACCESSORIES, INC	K176	KLEM METAL GRATING CORPORATION
K122	KINETICS SYSS CORP INC	K177	KLEMP METAL GRATING CORP.
K123	KIRKULFF ELECTRONICS, INC.	K178	KNICKERBOCKER ROOFING ASSOCIATION
K124	KIRWIT, PETER & SONS CO.	K179	KLEMP CORP ENGINEERING & MFG
K125	KIELEY & MUELLER CO.	K180	KLEMP, WILLIAM F. CO.
K126	KILLEBREW ENGINEERING CORP.	K181	KLINGER STEEL CO.
K127	KIMMERLE BROS.	K182	KLOCKNER-MOELLER
K128	KINCO INC.	K183	KNAPP HILLS CO.
K129	KIM HOYSTART MFG CO.	K184	KRIEGER STEEL PRODUCTS
K130	KINEMETRICS, INC.	K185	KOBE CO.
K131	KING-KNIGHT CO.	K186	KNAPP, WALTER OF WISCONSIN
K132	KING-LAR CO.	K187	KOCK ENGINEERING CO.
K133	KING NUTRONICS CORP.	K188	KOOR METAL INDUSTRIES
K134	KINGSTON IND CORP	K189	KREBS ENGINEERS
K135	KING-SEELEY THERMOS CO.	K190	KODEL ELECTRIC & MFG CO.
K136	KILSBY TUBESUPPLY	K191	KOPPERMAN INDUSTRIES
K137	K.D.I. PYROFILM CORP	K192	KOERNER, LERSCH, KAEFIELD
K138	KINGSBURY INC.	K193	KOHLER CO.
K139	KINGMANN-WHITE, INC.	K194	KROHNE PORTER
K140	KINGSBURY, ALBERT	K195	KOLLMORGEN CORP.
K141	KING, T.E. CO.	K196	KOMLINE-SANDERSON ENGINEERING CORP.
K142	KINNEY ELECTRICAL MFG CO.	K197	KONTRO CO., INC.
K143	KINNEY, S.P. ENGINEERING, INC.	K198	KOUCH ENGINEERING
K144	KINNEY VACUUM CO.	K199	KRANCO, INC.
K145	KINNEAR MANUFACTURING	K200	KOPPERS CO., INC.
K146	KINNEAR STEEL ROLLING DOORS	K201	KRISTAL ASSOC.

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CODE	VENDOR NAME
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K202	KROUGH PUMP CO.
K203	KRAMER, F.C.
K204	KRAUSS, JOHN F., CO.
K205	KSB PUMP SUPPLY BROS. CO.
K206	KREE, PAUL J., CO.
K207	KROFF STEEL COMPANY
K208	KRURGER MFG CO.
K209	KSH PRODUCTS, INC.
K210	KUBOTA, LTD. (JAPAN)
K211	KSH WELDING SYSTEM DIVISION
K212	KUPFER IRON WORKS
K213	KRAUS SHEETMETAL WORKS INC.
K214	KRAMIG, R.E. & CO., INC.
K215	KUHLMAN ELECTRIC CO.
K216	KUEMPER CO.
K217	KRUE & ROOTS CO.
K218	KUNNE-SIMMONS
K219	KUBIC ENGINEERING COMPANY
K220	KULITE SEMICONDUCTOR PRODUCTS INC.
K221	KRAUS & NAMIER
K222	KUPFER, THEO IRON WORKS, INC.
K223	KRAUSS, S.G., CO., INC.
K224	KRUSE METALS MANUFACTURING CO.
K225	KULITE TUNGSTEN CO.
K226	KORY-ACCURATE ELECTRONICS CO.
K227	KOHAREK, K.R., INC.
K228	KRENE & CO., INC.
K229	KNAPP, WILLIAM A., CO.
K230	KULJIAN CORP., THE
K231	KODATA, INC.
K232	KTA-TATOR ASSOC., INC.
K233	KRESTON CORP.
K234	KULKA ELEC CORP
K235	KUNKLE VALVE CO.
K236	KURIMOTO IRON WORKS LTD.
K237	KYNEX CORP.
K238	KRAISSL CO., INC.
K239	KORFUND DYNAMICS CORPORATION
K240	KURS INSTRUMENT INC
K241	KOOLTRONIC OF CALIFORNIA INC
L001	LAU INDUSTRIES
L002	L & A CO.
L003	L. A. WATER CONDITIONING
L004	L. A. WATER TREATMENT-DIV CHROMOLLOY AMER
L005	L & S MACHINE CO., INC.
L006	L. A. WATER SOFTENER COMPANY, INC.
L007	L & M - SURCO MANUFACTURING CO.
L008	L.G. & M. CO.
L009	L & A PRODUCTS, INC.
L010	L N D, INC.
L011	LARAMORE, DOUGLASS, POPHAM, INC.

CODE	VENDOR NAME
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L012	LCN CLOSERS
L013	LAMAN-LOESCHE SUPPLY CO INC
L014	LA FORCE HARDWARE & MFG CO.
L015	LA MARCHE MFG CO.
L016	LAB-LINE INSTRUMENTS
L017	LABARGE TUBULAR DIV LTD.
L018	LABORATORY FURNITURE CO.
L019	LABORATORY EQUIPMENT CO.
L020	LABOUR CO.
L021	LAIRD DE VOU INC
L022	LABCONCO CORP
L023	LACLEDE STEEL CO.
L024	LADEWIC CO.
L025	LADISH CO.
L027	LAKE COUNTY SUPPLY
L028	LAHR ELECTRIC MOTORS
L029	LAKELANDS CONCRETE PRODUCTS INC
L030	LAKE ERIE ELECTRIC
L032	LAKE ENGINEERING CO.
L033	LAKE STATES ENGINEERING CORP.
L034	LAKESIDE WIRE & IRON CO
L035	LAKESIDE BRIDGE & STEEL CO.
L036	LAKO MANUFACTURING CO.
L037	LAKE ONTARIO STEEL CO LTD
L038	LATTNER, P.M. MFG CO
L040	LAMAR PIPE CO.
L045	LAMBDA ELECTRONICS
L050	LAMCO INDUSTRIES, INC.
L051	LAMSON DIVISION DIEBOLD CORP.
L052	LAMESA TOOL & MANUFACTURING CO.
L053	LAMONS METAL GASKET CO.
L055	LANCASTER IRON WORKS
L060	LANCE IRON WORKS
L064	LAND CONSTRUCTION CO., INC.
L065	LANDAUER, R. S. JR. & COMPANY
L066	LANDEL, C.
L070	LANDSVERK CORP.
L072	LANDMAYER STEEL CO.
L073	LANGENFELDEN, C.S. & SONS, INC.
L074	LANG, WILLIAM & SONS CO.
L075	LANSING STEEL CORP.
L076	LARK ENGINEERING CORP.
L077	LARSE CORP.
L078	LARRANCE TANK CORP.
L079	LARCO INCORPORATED
L080	LAPP ENGINEERING CO.
L081	LARSEN PRODUCTS CORP.
L082	LAERSON-LANE
L083	LASKER BOILER & ENGINE COMPANY
L084	LASHER SUPPLY CO.
L085	LAPP INSULATOR CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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L086	LATROBE STEEL CO.	L173	LESMA INSTRUMENT CO.
L087	LAURENCE, R.G. CO., INC.	L175	LESTER EQUIP CO.
L088	LAWRENCE PUMPS INC.	L176	LEVINSON STEEL CO.
L089	LAW ENGINEERING TESTING CO.	L177	LEVERANCE ELEC MOTOR SVS INC
L090	LAYNE NORTHERN	L178	LEWIS BROS BATTERY CO.
L091	LAURENT CORPORATION	L179	LEWIS ENGINEERING CO.
L092	LAYNE WESTERN CO.	L180	LEYBOLD-HERAKUS INC.
L095	LAYNE-BOWLER, INC.	L181	LEXINGTON STANDARD CORP.
L096	LBR, INC.	L182	LEUPOLD & STEVENS INSTRUMENTS INC
L097	LAVAL, CLAUDE CORP	L183	LEVY, S. INC
L100	LEAHY CO.	L184	LIDDELL IND INC
L105	LEAR SIEGLER, INC.	L185	LFE CORP.
L108	LR BLAND INC.	L186	LIEBERT CORP
L109	LEAK DETECTION SVSS INC CO	L189	LIQUID PROCESSING SYSTEM INC.
L110	LEATHERMAN	L190	LFE ENVIRONMENTAL ANALYSIS LABS
L111	LEAVELL DRAVO	L191	LIBERTY EQUIPMENT & SUPPLY CO.
L112	LEBANON STEEL FOUNDRY	L192	LIGHTNING MIXERS
L113	LEBLOND, R.K., MACHINE TOOL CO.	L193	LIBBY-OWENS-FORD GLASS CO.
L114	LECKENBY CO.	L194	LIGHTRON CO. OF CORKWALL
L115	LECROY RESEARCH SYSTEMS CORP.	L195	LIBERTY AERO
L116	LEGG & ASSOCIATES, INC.	L196	LIFT ALL CO.
L118	LECTRODRYER	L197	LIQUID SYSTEMS
L119	LEAVINES ELECTRICAL TRACING CO.	L198	LINBLAD CONSTRUCTION CO.
L120	LEDoux & CO.	L199	LIGHTNING AGITATOR CO.
L121	LEDEEN	L200	LIMITORQUE CORP.
L122	LEE C. MOORE CORP. (SEE M428)	L201	LIGHTNING CO.
L123	LEECO PRECISION SPRING MFG CO.	L202	LIN-DON
L125	LEE METAL PRODUCTS CO.	L203	LIFT INC.
L130	LEEDS & NORTHRUP CO.	L204	LIEBOVICH BROS. & CO., INC.
L131	LEESON ELECTRIC CORP.	L205	LINCOLN ELECTRIC CO.
L135	LEFFELL, JAMES CO.	L206	LICON DIVISION (ILLINOIS TOOL WORKS INC.)
L136	LEHIGH CEMENT CO.	L207	LINDAHL BROS.
L137	LEHIGH STRUCTURAL STEEL CO.	L208	LINDEN-ALIMAK, A.B.
L138	LEHIGH UTILITY ASSOC INC	L209	LINDER (TUBE FABRICATING EQUIPMENT)
L140	LEICO INDUSTRIES, INC.	L210	LINDBERG
L141	LEINARTS INC	L211	LINTERN CORP
L142	LEIGHTON ST.	L212	LINDBLAD CONSTRUCTION CO
L145	LEITELY IRON WORKS	L213	LINDSEY MFG CO INC
L146	LEKTRODRYER CO.	L214	LYCO-EP
L147	LELAND	L215	LINDE DIV
L148	LENAPE FORGE	L216	LISTER DISSELS INC (HAWKER SIDDELEY)
L149	LFM PRODUCTS	L217	LOOMIS EQUIP CO
L150	LENOX INSTRUMENT CO.	L218	LOCKPORT STEEL FABRICATORS INC
L152	LENE CO.	L219	LITTLEFORD BROS INC
L153	LENNOX INDUSTRIES INC.	L220	LINE MATERIAL INDUSTRIES
L154	LEOPOLD, F. B. COMPANY, INC.	L221	LINGO, JOHN E., & SON
L155	LEOPOLD, VOLPEL & CO.	L222	LIQUID CONTROL CORP.
L160	LERMA ENGINEERING CORP. (SEE L165)	L223	LITTLEFUSE INC
L165	LERMA ENGINEERING CORP. (SEE L160)	L225	LINK-BELT CO.
L170	LESLIE CO.	L226	LITTLE GIANT PUMP CO.
L171	LESLIE-ELLIOTT CO.	L227	LITTLE, R.H. CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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L228	LITHONIA	L286	LUPKIN INDUSTRIES INC.
L229	LIPPS-JAKUBIK & ASSOC.	L287	LUHR, EUGENE & CO.
L230	LINK, HERBERT D.	L288	LUMINERING SALES & SERVICE CO.
L231	LIPS SPLICING SERVICE	L289	LUMENITE ELECTRONIC CO.
L232	LITTON INDUSTRIES	L290	LUKENS STEEL CO.
L233	LIQUID DYNAMICS CORP.	L291	LUMMUS CO.
L234	LIST & CLARK CONSTRUCTION CO.	L292	LUMINOUS CEILINGS, INC.
L235	LIQUIDMETER CORP.	L293	LUNDEKN COATINGS CORP.
L236	LIQUID CARBONIC CORP.	L295	LUNDELL CONTROLS - TECHNOLOGY INC.
L237	LIQUIDONICS INC.	L296	LUMALITE PRODS CO
L238	LIE INDUSTRIAL SALES CO.	L297	LUEDTKE ENGINEERING CO
L239	LIQUID AIR	L300	LUNKENHEIMER CO., THE
L240	LOCHINVAR WATER HEATER	L305	LUPTON, DAVID & SONS
L241	LOCK JOINT PIPE CO.	L306	LYNCH COMMUNICATION
L242	LIQUID LEVEL ELECTRONICS	L318	LYNAIR INC.
L243	LONG BLOCK & SUPPLY CO., INC.	L319	LYNAIR HYDRAULICS/CYLINDER DIV
L244	LIVERS BRONER COMPANY	L320	LYON METAL PRODUCTS, INC.
L245	LOCKE DEPT, GE CO.	L321	LOVE CONTROLS CORP.
L246	LOCKE INSULATORS INC.	L322	LYONS HARDWARE & CO.
L247	LIQUID DRIVE CORP.	M001	M-D PNEUMATICS, INC.
L248	LODGE-COTTRELL CO.	M002	M & F BUILDERS & SUPPLY CO.
L249	LITTLE L.L. & ASSOC.	M003	M & H GATE VALVES
L250	LOCKHEED	M004	M.A.N. (MASCHINENFABRIK, AUGSBURG-NURNBERG)
L251	LOCKWOOD-JONES & BEALS	M005	M G SCIENTIFIC
L252	LOGAN MFG CO	M006	M & M SHEET METAL
L253	LOVEJOY CONTROLS CORP	M007	MACK IRON WORKS CO.
L254	LONG AIRDOX CO	M008	MACHINERY ELECTRIFICATION, INC.
L255	LOMAX INC.	M009	MACKIN SALES CO.
L260	LOMBARD GOVERNOR	M010	MACOMBER, INC.
L263	LONERGAN, J.E., CO. (SEE L265)	M011	MAKO ENGINEERING
L265	LONERGAN, J.E., CO. (SEE L263)	M012	MACHYTE WIRE ROPE CO.
L266	LONGHORN INDUSTRIES & CO.	M013	MADDEN CORP.
L267	LONG ISLAND LIGHTNING CO.	M014	MAGNA CORP.
L268	LONE STAR CO.	M015	MAGNAFLUX CORP.
L269	LORD ELECTRIC	M016	MADSEN CO.
L270	LORAIN PRODUCTS CORP.	M017	MAENAKA VALVE WORKS
L271	LONE STAR INDUSTRIAL SUPPLY COMPANY	M018	MACKWORTH REES
L272	LONE STAR SCREW CO.	M019	MADSEN, ORVILLE & SON, INC.
L273	LOHICS	M020	MAGNATECH
L274	LORD CORP.	M021	MACAULAY CONTROLS CO.
L275	LOTepro CORP.	M022	MAGNEHELIC
L276	LOPREST CO	M023	MADER MACHINE CO.
L277	LOYOLA INDUSTRIES, INC.	M024	MAGIC-FLOW VIBRATOR COMPANY
L278	LOUISVILLE CEMENT CO.	M025	MAGNETIC ENGG CO.
L279	LOUDEN MACHINERY CO.	M026	MADISON LABORATORIES, INC.
L280	LOUIS ALLIS CO.	M027	MADDOX SALES COM.
L281	LOUISIANA POWER & LIGHT CO.	M028	M D A SCIENTIFIC, INC.
L282	LUCAS & SONS CO.	M029	M & S PIPE & SUPPLY CORP.
L283	LOUVERS & DAMPERS, INC.	M030	MAGNETIC METALS CO.
L284	LOWE, CHARLES CO.	M031	MAC VALVES, INC.
L285	LUDLUM MEASUREMENTS, INC.	M032	M & F BUILDERS SUPPLY, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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M033	MEA, INC.	M084	MARKEL ELECTRIC PRODUCTS INC.
M034	MAC-FAB PRODUCTS, INC.	M085	MARLEY CO., THE
M035	MAGNETICS DIV SPANG INDUSTRIES, INC.	M086	MARLOW INDUSTRIES, INC.
M036	MAINTENANCE ENGG CORP	M087	MAPCO
M037	MADISON-KIPP CORP	M088	MARNEL ENGINEERING CO.
M038	MACLEAN-FOGG CO	M089	MARLEY COOLING TOWER CO.
M039	MFE CORP	M090	MAROTTA SCIENTIFIC CONTROLS, INC.
M040	MAGNETROL, INC.	M091	MARLAND ONE-WAY CLUTCH CO., INC.
M041	MAR-IND SUP INC	M092	MARLAND CO.
M042	MALLORY, P.R. CO INC	M093	MARATHON STEEL CO.
M043	MAGNOLIA WELDING SUPPLY CO.	M094	MARTIN-DECKER CO.
M044	MALABAR HYDRAULICS CO.	M095	MAROTTA VALVE CORP.
M045	MAHON, R.C. CO.	M096	MARMON KEYSTONE CORP.
M046	MALTBY ELECTRIC SUPPLY CO., INC.	M097	MATTHEWS-MCCRACKEN-RUTLAND CORP.
M047	MALSBAR Y MANUFACTURING CO.	M098	MCGRAW-HILL INC
M048	MANATROL DIVISION-PARKER-HANNIFIN CORP.	M099	MILLER, N.C. MFG CO INC
M049	MAIN-LINE ENGINEERING & CONSTRUCTION SVC.	M100	MARQUETTE ELEC SWBD CO.
M050	MAIN, INC., CHAS. T.	M101	MENSCO INC (X-REF P034)
M051	MAINE YANKEE ATOMIC POWER CO.	M102	MATERIAL CONTROL INC
M052	MANCO MANUFACTURING CO.	M103	MALLORY CAPACITOR CO
M053	MANCIS CO.	M104	MCHURRY AND SONS ROOFING CO INC
M054	MANEY AIR CRAFTS CO.	M105	MARSH & MCLENNAN, INC
M055	MANISTEE IRON WORKS	M106	MARVIN ENGINEERING CO., INC.
M056	MANITOWAC ENGINEERING CO.	M107	MARSH, INC. (ARMCO)
M057	MANAGEMENT ANALYSIS CO.	M108	MARSH SPENCIL MACHINE CO.
M058	MAIHAK CO.	M109	MARTIN ENGINEERING CO.
M059	MANNING ENVIRONMENTAL CORP	M110	MARSH INSTRUMENT CO.
M060	MANN CO., DAVID W.	M111	MARTIN-MARIETTA CORP.
M061	MAURO, A.G. CO, THE	M112	METAL DOORS & FRAME CO INC
M062	METERMASTER INC	M113	MARSHALLTOWN MANUFACTURING INC.
M063	MANNHARDT, W. & SONS, INC.	M114	MARUSHIMA HYDRAULIC TE WORKS LTD.
M064	MANNING & LEWIS ENGINEERING CO.	M115	MASON & HANGER-SILAS MASON CO., INC.
M065	MANNING-MAXWELL-MOORE	M116	MASON INDUSTRIES, INC.
M066	METAL MASTERS INC	M117	MBIS INC
M067	MACE CORP	M118	METER SALES & CALIB (X-REF E207)
M068	M & R CONTRACTING	M119	MICHAEL FABRICATING INC
M069	MAKO COMPRESSORS INC	M120	MASONELAN INTERNATIONAL, INC.
M070	MANSFIELD & GREEN DIVISION, AMTEC, INC.	M121	MASONELAN REGULATOR CO.
M071	MANCHESTER TANK & EQUIP CO. OF TEXAS	M122	MCKEE DOOR CO.
M072	MANSFIELD, JAMES, & SON INC.	M123	MCTIGHE INDUSTRIES
M073	MAHTA, J.L., INC.	M124	MILWAUKEE EQUIP CO INC
M074	MANTA VIN-COR STEEL	M125	MASONITE CORP.
M075	MANTON GAULIN	M126	MASSACHUSETTS ENGINEERING CO., INC.
M076	MARCEL COMPANY	M127	MASSACHUSETTS MATERIAL RESEARCH
M077	MANUFACTURERS AID	M128	MASTER SPECIALTIES
M078	MARATHON METALLIC BLDG CO.	M129	MASTER CONTROL SYSTEMS, INC.
M079	MARKSTONE	M130	MAST DEVELOPMENT CO.
M080	MARATHON ELEC MFG	M131	MATHIS-KELLEY CONSTRUCTION SUPPLY
M081	MCC CLAYTON MARK	M132	MCCORMICK-MORGAN, INC.
M082	MARLIN MFG.	M133	MCLEAN ENGINEERING LABORATORIES
M083	MARK CONTROLS CORP.	M134	MASTER BUILDERS

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CODE	VENDOR NAME	CODE	VENDOR NAME
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M135	MASTER ELECTRIC	M186	MCKINNEY DRILLING COMPANY
M136	MASTER GAUGE CO.	M187	MCQUAY-PERFEX INC.
M137	MASTER METAL ROD	M188	MCGUIRE ENTERPRISES
M138	MATRYX CO.	M189	MCNALLY-PITTSBURGH MFG. CORP.
M139	MCC POWERS CORP.	M190	MCSAVANEY SIGN CO.
M140	MATERIALS ANALYSIS CO.	M191	MEADOWS, INC.
M141	MATERIALS SERVICE CORP.	M192	METROL CORP.
M142	MCDONALD, R.F. CO.	M193	MEC-TRONICS INDUSTRIES, INC.
M143	MCDONALD, A.Y. CO.	M194	MCPHILBEN
M144	MAXIM SILENCERS	M195	MECH-TRONICS NUCLEAR CORP.
M145	MATHESON GAS PRODUCTS	M196	MICKINPEY STEEL & SALES CO.
M146	MATOT, D.A. INC.	M197	MCMILLAN BROS.
M147	MATTHEWS CONVEYOR	M198	MECHANICAL PRODUCTS
M148	MATHEWS, JAMES H., CO.	M199	MCINTIRE BRASS WORKS
M149	MC KENTGIE RIS MFG	M200	MECHANICAL SERVICE CO.
M150	MATTHEY BISHOP, INC.	M201	MECHNIARTS ASSOC.
M151	MCC PACIFIC VALVES	M202	MECHANICAL INC.
M152	MAXITROL CO.	M203	MAC DONALD ENGINEERING CO.
M153	MATHISON ENGINEERING CO.	M204	MCKINSTRY METAL WORKS INC.
M154	MAXON CONSTRUCTION CO.	M205	MECHANICAL SPECIALTIES CO.
M155	MAUL CO.	M206	MCCULLOCK INDUSTRIES INC.
M156	MAURD, R.J. & ASSOCIATES	M207	MEDDCO METALS
M157	MAVERIC	M208	MCGILL MANUFACTURING CO., INC.
M158	MAXSON CORPORATION	M209	MIDSTATE PRE-STRESSED CONCRETE
M159	MAXION PRE-BUR CO., INC.	M210	MECHANICAL SPECIALTY PRODUCTS, INC.
M160	MAXWELL LABORATORIES, INC.	M211	MILLS & LUPTON SUP CO
M161	MAYNARD ELECTRIC STEEL CASTING CO.	M212	METAL DOORS & FRAMES CO INC
M162	MC CULLY INSTRUMENTS	M213	METCALF ASSOC
M163	MAZZELLA WIRE CO.	M214	MIDWEST TANK CO
M164	MACCAFFRAY CO.	M215	MECHANICS RESEARCH INC.
M165	MCCORMACK'S HIGHWAY TRANS., INC.	M216	MEGATRON ELECTRONICS & CONTROL, LTD.
M166	MCALLISTER EQUIPMENT CO.	M217	MEDIA VALVE CO., INC.
M167	MCCULLOUGH ELECTRIC CO.	M218	MEDART, DIV OF JAKES-EVANS MFG CO.
M168	MCCLELAND ENGINEERING	M219	MEDIUM VOLTAGE SWITCHGEAR DEPT
M169	MCCLELLAND ENGINEERS, INC.	M220	MEDI-RAY, INC.
M170	MCDONNELL & MILLER ITT	M221	MEDUSA PORTLAND CEMENT CO.
M171	MCDONALD SPECIALTY PRODUCTS, INC.	M222	MELANEY ENGINEERING
M172	MCDONOUGH STEEL CO.	M223	MEIERJOHAN-WENGLER
M173	MCDONELL-WELLMAN ENGINEERING CO.	M224	MELRATH SUPPLY & GASKET
M174	MCPARLAND ENGINEERING & PUMP CO.	M225	MELTRON CORP.
M175	MCGRAW EDISON CO., POWER SYSTEMS DIV	M226	MEFCO
M176	MCCARTIN-MCAULIFFE MECH CONTRACTORS INC.	M227	MEDART INC.
M177	MCHENRY SAND & GRAVEL	M228	MENSOR
M178	MCINNIS CONSTRUCTION	M229	MENEFKE & SMITH, INC.
M179	MCINTYRE BROTHERS	M230	MEMCO MFG
M180	MCGREGOR MICHIGAN	M231	MERCER RUBBER CO.
M181	MCJUNKIN CORP.	M232	MERCER ENGINEER INC.
M182	MCKAY	M233	MIRACLE ADHESIVES CORP.
M183	MCKENIEE MARINE CONSTRUCTION CO.	M234	MENOLD, ERNEST D., INC.
M184	MCMASTER-CARR CO.	M235	MERCOID CORP.
M185	MCPHERSON ASSOC., INC.	M236	MERCO MANUFACTURING, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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M237	MIXMOR, INC.	M288	MIDDLE WEST SERVICE CO.
M238	MILLER WIRE WORKS, INC.	M289	METRO METAL, INC.
M239	MESSINGER BEARINGS, INC.	M290	METRIX, INC.
M240	MERCURY CO.	M291	MICRO-D-PRODUCTS
M241	MINERVA STOPWATCH CO.	M292	METROPOLITAN EDISON CO.
M242	MIDWAY INDUSTRIAL CONTRACTOR, INC.	M293	METROVONICS
M243	MITSUI ENGINEERING & SHIPBUILDING, LTD.	M294	MEYER INDUSTRIES
M244	METAL CLADDING, INC.	M295	MICHIGAN FABRICATING & WELD
M245	MERIAM CO.	M296	MIDWEST SURVEYORS SERVICE
M246	MERIAM INSTRUMENTS	M297	MICHIGAN HANGER
M247	MERIDEN-COOPER CO.	M298	MID-STATES CONCRETE PRODUCTS INC.
M248	MERIT	M299	MICHIGAN TOOL CO.
M249	MERQUIP ELECTRIC	M300	MICHIGAN TRACTOR & MACHINE
M250	MERRIMAN INC.	M301	MICRO-KLEAN FILTER
M251	MERSICK, C.S. CO.	M302	MICRO SWITCH
M252	MERTE IRON	M303	MIDCO PIPE & TUBE, INC.
M253	MESCO CORPORATION	M304	MID-CITY ARCHITECTURAL IRON CO.
M254	MERRICK SCALE MANUFACTURING CO.	M305	MID-VALLEY, INC.
M255	MESKER, GEORGE L. CO.	M306	MID-STATES STEEL CORP.
M256	MESKER INDUSTRIES	M307	MIDDLESEX STAINLESS FITTINGS
M257	METROPOLITAN PUMP CO.	M308	MID-STATES INDUSTRIAL ALUMINUM SASH, INC.
M258	MEYLAN STOPWATCH CORP.	M309	MID-WEST CONVEYOR
M259	MESSER, FRANK, & SONS, INC.	M310	MIDWAY CO.
M260	MESTA MACHINE CO.	M311	MIDWEST STEEL
M261	MICRON INSTRUMENTS CORP.	M312	MIDWEST ENGINEERING CO.
M262	MINETTA MACHINERY CO.	M313	MIDWEST METALS, INC.
M263	MID-STATE ELECTRONIC SUPPLY	M314	MID-WEST INSTRUMENT
M264	MID-OHIO ERRECTING & RIGGING CO.	M315	MIDWEST PIPING
M265	METAL ARTS CO.	M316	MIDWEST POWER CORP.
M266	METAL INDUSTRIES INC.	M317	MIEHLE GOSS DEXTER PNEUMATICS CO.
M267	METALLURGICAL CONSULTANTS INC.	M318	MIKUNI JUKOYGO, LTD.
M268	MEUSER & CO.	M319	MIXING EQUIPMENT COMPANY
M269	METAL FABRICATORS INC.	M320	MILES LABORATORIES, INC.
M270	METAL BELLOWS	M321	MILLER, RAY INC.
M271	MEYERS, L.E. CO.	M322	MILLER FLUID POWER CO.
M272	METAL GOODS CO.	M323	MILLIPORE FILTER CORP.
M273	METAL PRODUCTS CORP.	M324	MILLIS JOHN B., CO.
M274	METRON INSTRUMENTS INC.	M325	MILTON-ROY COMPANY
M275	METAL OFFICE FURNITURE	M326	MILLS IRON WORKS INC.
M276	METALB EQUIPMENT CO.	M327	MILLER DAVIS COMPANY
M277	METALLOY INC.	M328	MILNE ASSOCIATES
M278	METALLON, INC.	M329	MILLIKEN BRICK COMPANY
M279	METTLER INSTRUMENT CORP.	M330	MILWAUKEE BOILER & TANK
M280	METEROLOGY RESEARCH, INC.	M331	MILLER EXCAVATING
M281	METERON INSTRUMENTS, INC.	M332	MILWAUKEE CYLINDER COMPANY
M282	METER DEVICES CO.	M333	MINCO
M283	METER & CONTROLS, INC.	M334	MIKROPUL
M284	METER MAKERS	M335	MINE SAFETY APPLIANCES COMPANY
M285	METRA INSTRUMENTS	M336	MILTON ROYAL
M286	METILS, INC.	M337	MILLS-WINFIELD ENGINEERING SALES, INC.
M287	METER & INSTRUMENTS CO.	M338	MILE HIGH EQUIPMENT COMPANY

CODE	VENDOR NAME	CODE	VENDOR NAME
M339	MIDLAND ROSS CORPORATION	M390	MOLONEY ELECTRIC COMPANY
M340	MINNEAPOLIS-HONEYWELL	M391	MOBIL OIL CORP.
M341	MIL-LIN SYSTEMS DIVISION	M392	MODPAK
M342	HILLER, J. P. ARTESIAN WELLS	M393	MOFFIT COMPANY
M343	MINNEAPOLIS TANK & MANUFACTURING COMPANY	M394	MOESCHL EDWARDS CORP. COMPANY, INC.
M344	MIDCO CONTROL SYSTEMS INC.	M395	MOLYCORP-HOLYBENUM CORP. OF AMERICA
M345	MINNESOTA MINING & MANUFACTURING, 3M CO.	M396	MOLLER COMPANY
M346	MILMAC MANUFACTURES REPRESENTATIVES	M397	MONARCH FORGE & MACHINE WORKS INC.
M347	MIDLAND PIPE & SUPPLY COMPANY	M398	MOHE, JOHN & SONS
M348	MIDTEX MANUFACTURING COMPANY	M399	MOBIL CHEMICAL COMPANY
M349	MINNESOTA POWER & LIGHT COMPANY	M400	MONITOR LABS, INC.
M350	MINNOTTE MANUFACTURING CORPORATION	M401	MONITOR MANUFACTURING INC.
M351	MILLIVAC INSTRUMENTS	M402	MONITOR TECH INC.
M352	MILWAUKEE VALVE COMPANY, INC.	M403	MODULAR COMPUTERS
M353	MILDOON-ROY INDUSTRIES, LTD.	M404	MOBIL CALIBRATION
M354	MILNOR CORP.	M405	MONROE, R. AND SONS
M355	MIRROR INSULATION COMPANY	M406	MOBILE FASTNERS
M356	MILLSTONE POINT COMPANY	M407	MODERN METAL MFG. (DIV. MODERN MACHINERY)
M357	MILTON-ROSS COMPANY	M408	MITCHELL ENGINEERING
M358	MISSION MANUFACTURING COMPANY	M409	MOLDCAST LIGHTING
M359	MILLER ELECTRIC MANUFACTURING COMPANY	M410	MONSANTO RESEARCH CORP.
M360	MISSION VALVE AND PUMP COMPANY	M411	MONTAGUE, B. L. COMPANY, INC.
M361	MILLER STEEL & SUPPLY COMPANY, INC.	M412	MONTEREY MECHANICAL COMPANY
M362	MISSISSIPPI VALLEY EQUIPMENT INC	M413	MONTGOMERY BROTHERS INC.
M363	MILLTRONICS, LTD.	M414	MONTEDORO-WHITNEY
M364	MODULAR ENGINEERING COMPANY	M415	MONTGOMERY ELEVATOR
M365	MISSISSIPPI VALLEY STR STEEL	M416	MOTHERWELL-INFOLO, INC.
M366	MITCHELL, R. S. & COMPANY	M417	MH SYSTEMS CORP.
M367	HILLS ALLOY STEEL COMPANY	M418	MITUTOYO CORP.
M368	MKS INSTRUMENTS	M419	MOBILE STEEL CORP.
M369	MODICON	M420	MONTREAL LOCOMOTIVE WORKS-WORTHINGTON
M370	MISSOURI BOILER & TANK COMPANY	M421	MOORE, I. B. COMPANY
M371	MODULFLASH CORP.	M422	MOORE INDUSTRIES
M372	MITAKI COMPANY	M423	MOOG INC.
M373	MODERN ENGINEERING COMPANY (FIECO)	M424	MOORE DRY DOCK COMPANY
M374	MITERNIGHT BOILER WORKS	M425	MOORE & SHAVER, INC.
M375	MITCHELL, JOHN E. COMPANY	M426	MOORE, SAMUEL & COMPANY
M376	MODINE MANUFACTURING COMPANY	M427	MOORE SUPPLY
M377	MITCHELL TECHNOLOGY, INC.	M428	MOORE, LEE C. CORP. (SEE L122)
M378	MODERNFOLD	M429	MOORE-HOUSE INDUSTRIES
M379	MODERN WELDING	M430	MOORE PRODUCTS COMPANY
M380	MITSUBISHI HEAVY INDUSTRIES (JAPAN)	M431	MORAN, F. E. COMPANY
M381	MODULUS CORP.	M432	MORAF COMPANY
M382	MOELLER INSTRUMENT COMPANY	M433	MOHANK MFG CO
M383	MOCK, JULIUS & SON INC.	M434	MORIN BUILDING PRODUCTS
M384	MOFFET ENGINEERING COMPANY	M435	MORGAN ELECTRIC
M385	MITSUBISHI INTERNATIONAL CORPORATION	M436	MORGAN CO, THE
M386	MIXING EQUIPMENT COMPANY	M437	MOORE, J. ARTHUR CO INC
M387	MW INDUSTRIES	M438	MONOGRAM IND INC
M388	MOHR, JOHN & SONS	M439	MORRIS COUPLING & CLAMP COMPANY
M389	MOLINE CONSUMERS	M440	MORGAN SMITH, S. COMPANY

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CODE	VENDOR NAME
M441	MORRIS WHEELER & COMPANY
M442	MOORHEAD MACHINERY & BOILER COMPANY
M443	MORRIS PUMPS, INC.
M444	MORRISON CONSTRUCTION COMPANY, INC.
M445	MORRIS MACHINE WORKS
M446	MORRISON SUPPLY COMPANY
M447	MORRISON BROTHERS
M448	MOSHER STEEL COMPANY
M449	MOSSER INDUSTRIES INC.
M450	MOSSMAN, DONALD P. INC.
M451	MORTON SALT COMPANY
M452	MOTOR ALLIANCE CORP.
M453	MOTOR COLUMBUS CONSULTING ENGINEERS, INC.
M454	MEDEN PRODS CO INC
M455	MOTOROLA
M456	MOTT, INC.
M457	MOYNO PUMP COMPANY
M458	MOUNTE, INC.
M459	MOUND STEEL CORP
M460	MFR ASSOCIATES, INC.
M461	MRC
M462	MCIVER & SMITH FABRICATORS INC
M463	MILLER-STEPHENSON CHEMICAL CO
M464	MCDANIEL, DAVID E. CO INC
M465	MSA INTERNATIONAL
M466	MSI GENERAL CORP.
M467	MSI NUCLEAR
M468	MSW INSTRUMENT CORP.
M469	MUSKOGEE IRON WORKS, INC.
M470	MSA RESEARCH CORP.
M471	MULTULOC CORP.
M472	MURSCO INC.
M473	MUELLER STEAM SPECIALTY
M474	MUELLER, PAUL COMPANY
M475	MUELLER, R. A. COMPANY
M476	MUELLER BRASS COMPANY
M477	MULTIMETALS COMPANY
M478	MULTISTRESS INC.
M479	MUNDIX COMPANY
M480	MUNROE, R. AND SONS
M481	MULTIPLEX MANUFACTURING COMPANY
M482	MILTI-AMP CORP.
M483	MUNICIPAL PIPE & FABRICATING COMPANY
M484	MUNSTER STEEL COMPANY, INC.
M485	MURDOCK LEAD COMPANY, THE
M486	MUNTERS CORP., THE DEL
M487	MULLER CO
M488	MINERAL INSULATED CONTROL SYSS INC
M489	MICHIGAN SEAMLS TUBE CO (X-REF Q015)
M490	MURDOCK, INC.
M491	MURRAY INDUSTRIAL SUPPLY

CODE	VENDOR NAME
M492	MURRAY AND TRETTEL INC.
M493	MURPHY B&B & KITCHEN COMPANY
M494	MORRISON-KNUDSON COMPANY, INC.
M495	MUSKOGON WOILER WORKS
M496	MUSTANG POWER PRODUCTS INC.
M497	MUSONICS
M498	MURPHY, FRANK. W. MANUFACTURING INC.
M499	MUTUAL MANUFACTURING SUPPLY COMPANY
M500	MURPHY PACIFIC CORP.
M501	MILAN STEEL IND INC
M502	MULCAHY, BERNARD J. INC
M503	MORSE MFG CO
M504	MATTISON MACHINES INC
M505	MASTEN CORP (MASTEN BUNTING)
M506	MICRO COMPUTER POWER INC
M507	MADISON BLOCK & STONE
M508	MALDEN GLASS CO INC
M509	METER MASTER INC
M510	MEADE ELECTRIC CO INC
M511	MARLEY HEAT TRANSFER CO
M512	MARCO SALES INC
M513	MISSISSIPPI TANK CO INC
M514	MOHAWK MFG CORP
M515	MOSLER SAFE CO
M516	M L B INDUSTRIES INC
M517	MCKINNEY, JAMES & SONS INC
M518	MIDLAND STEEL CORP
M519	MYERS, RAWDON INC.
M520	MYERS, F. E. & BROTHERS COMPANY
N001	NACHI AMERICA INC.
N002	NABCO STEEL PLATE FABRICATING SPECIALISTS
N003	N.M.C. CONTROLS INC.
N004	NAGLE PUMPS INC.
N005	NALCO CHEMICAL CORP.
N006	N. I. I. LABORATORY FURNITURE
N007	NAMCO CONTROLS
N008	NASHUA CORP.
N009	NAPKIN & COMPANY
N010	NASH ENGINEERING COMPANY, THE
N011	NAROWEZE HEATING & VENTILATING COMPANY
N012	NAPA
N013	NATCHEE STEEL & PIPE COMPANY
N014	NATKIN SERVICE COMPANY, INC.
N015	NATIONAL ACME COMPANY
N016	NATIONAL WELDERS SUPPLY CO
N017	NATIONAL AIR BALANCE COMPANY
N018	NATIONAL ALUMINATE CORPORATION
N019	NATIONAL BLOWER & SHEET METAL COMPANY
N020	NATIONAL ANNEALING BOX COMPANY
N021	NATIONAL ASTRO LABORATORIES
N022	NATIONAL WIRE & CABLE CORP.

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CODE	VENDOR NAME
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N023	NATKIN & CO (NATKIN SERVICE CO INC)
N024	NATIONAL ERD
N025	NATIONAL BERYLLIA CORP.
N026	NATIONAL CERTIFIED PIPE WELDING BUREAU
N027	NATIONAL CYLINDER GAS COMPANY
N028	NATIONAL ELEVATOR CAB & DOOR CORP.
N029	NATIONAL CONTROLS INC.
N030	NATIONAL ELECTRIC SIGN
N031	NATIONAL CRANE CORP
N032	NATIONAL ELEC COIL (MCGRAM-EDISON)
N035	NATIONAL ENVIRONMENTAL INSTRUMENTS, INC.
N036	NATIONAL FLANGE & FITTING CO
N038	NATIONAL FOAM SYSTEMS, INC.
N039	NATIONAL FOAM, INC.
N040	NATIONAL FORGE COMPANY
N041	NATIONAL FIRE SPRINKLER
N042	NATIONAL LEAD COMPANY
N043	NATIONAL GRAPHICS
N044	NATIONAL MOBIL CONCRETE
N045	NATIONAL NUCLEAR CORP.
N046	NATIONAL FIREHOSE CORP.
N047	NATIONAL PLUMBING
N048	NATIONAL READY-MIX CONCRETE ASSOCIATION
N049	NATIONAL SEMI CONDUCTOR
N050	NATIONAL SPECTROGRAPHIC LABORATORIES
N051	NATIONAL SONICS CORP.
N052	NATIONAL STAINLESS CORP.
N053	NATIONAL STEEL COMPANY
N054	NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS
N055	NATIONAL TANK COMPANY
N056	NATIONAL HOLLOW METAL & SUPPLY CO
N057	NATIONAL WIRE PRODUCTS CORP
N060	NATIONAL VALVE & MANUFACTURING COMPANY
N063	NATIONAL RIGGING INC.
N065	NATIONAL-STANDARD COMPANY
N066	NATURALITE INC.
N067	NEBRASKA PUBLIC POWER DISTRICT
N068	NDT INTERNATIONAL INC
N069	NEW HAMPSHIRE SUPPLY CO
N070	NECI-NUCLEAR ENGINEERING & COMPONENTS INC.
N071	NEWARK ELECTRONICS CORP
N072	NECO CORP.
N073	NASON CO, THE
N074	NILSSON ELECTRICAL LABORATORY INC
N075	NEELY, JAMES V.
N076	NEENAH FOUNDRY COMPANY
N077	NELSON STEEL & WIRE COMPANY
N078	NELSON BROTHERS, INC.
N079	NELSON DIVISION
N080	NELSON ELECTRIC
N081	NEO-DYN INC.

CODE	VENDOR NAME
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N082	NELSON ELEC MFG (SUB GEN SIGNAL)
N083	NEPTUNE EASTECH INC.
N084	NEPTUNE CHEMICAL PUMP COMPANY
N085	NELSON STUD WELDING COMPANY
N086	NEOWELD CORP.
N087	NEPTUNE SERVICE COMPANY
N088	NEUMAN & SON
N089	NEPTUNE MICROFLOC INC.
N090	NEMA, INC.
N091	NESCO (NUCLEAR ENGINEERING SERVICES CO.)
N092	NEPTUNE MEASUREMENT COMPANY
N093	NEPTUNE METER COMPANY
N094	NEWELL, R. M. COMPANY
N095	NEUTRON PRODUCTS, INC.
N096	NEWARK
N097	NEWBERG, GUS K. CONSTRUCTION COMPANY
N098	NEW ENGLAND BOLT
N099	NEW ENGLAND CONTROLS, INC.
N100	NEW ENGLAND METAL SPINNING COMPANY, INC.
N101	NEW ENGLAND INSULATION
N102	NEW ENGLAND SILICA
N103	NEW CASTEL PRODUCTS
N104	NEWMAN
N105	NEW ENGLAND NUCLEAR
N106	NEW HAVEN TESTING LABORATORY
N107	NEW YORK BLOWER
N108	NEW YORK AIR & BRAKE COMPANY
N109	NEW JERSEY ELECTRIC CORP.
N110	NEW YORK TESTING LABORATORIES, INC.
N111	NEW YORK SHIPBUILDING
N112	NEW DEPARTURE HYATT
N113	NEW PROCESS STEEL
N114	NEWPORT LABORATORIES
N115	NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.
N116	NEW FAB, INC.
N117	NEWTON, O. A. AND SON COMPANY
N118	NEWTON ASSOCIATES
N119	NIELSEN IRON WORKS
N120	NEK INSULATOR
N121	NIFE
N122	NIAGARA MOHAWK POWER CORPORATION
N123	NICOL SCALE SERVICES
N124	NIBCO-SCOTT
N125	NIAGARA TRANSFORMER
N126	NIANTIC TOOL COMPANY
N127	NIBCO COMPANY
N128	NICHOLSON FILE COMPANY
N129	NICKELL, E. L. COMPANY
N130	NILES STEEL TANK
N131	NILAND, TOM COMPANY
N132	NICOLET SCIENTIFIC CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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N133	NICHOLSON DIV. OF DATRON SYSTEMS, INC.	N184	NORTHWEST COPPERWORKS INC.
N134	HEPTUNE HARDY SCALES COMPANY	N185	NORTHWESTERN MANUFACTURING COMPANY
N135	NIPPON STAINLESS (JAPAN)	N186	NOTT COMPANY
N136	NIPPON GEAR COMPANY, LTD. (JAPAN)	N187	NORTHWESTERN STEEL & WIRE COMPANY
N137	NITTO ELECTRIC INDUSTRIAL CO. OF AMERICA	N188	NOTIFIER COMPANY
N138	NITTO DENKO AMERICA INC.	N189	NORVEL WILDER SUPPLY COMPANY
N139	NISSHO-IWAI AMERICAN CORPORATION	N190	NORTON COMPANY
N140	NL INDUSTRIES, INC.	N191	NORTEC
N141	NOTT, WILLARD & COMPANY	N192	NORWALK FABRICATORS, INC.
N142	NOR-CAL METAL FABRICATORS	N193	NPI/ASC
N143	NEWGARD, HENRY AND COMPANY (SEE H146)	N194	NPS INDUSTRIES, INC.
N144	NOLAND CO	N195	NUCLEAR ASSOCIATES INTERNATIONAL CORP.
N145	NON LINEAR SYSTEMS, INC.	N196	NUCLEAR PACKAGING INC. (NU PAC)
N146	NORTHERN STATES STEEL BUILDERS	N197	NOVENCO, INC.
N147	NORTHWESTERN INDUSTRIAL PIPING, INC.	N198	NORTHERN GRAVEL COMPANY
N148	NORTHSHOE STEEL, INC.	N199	NORMAN EQUIP CO
N149	NORTON CORROSION, LTD.	N200	NUCLEAR ASSOCIATES, INC.
N150	NOOTE CORP.	N201	NTN BEARING CORP OF AMERICA
N151	NORMAN INDUSTRIES INC.	N202	NORTH STAR STEEL CO
N152	NORDBERG	N203	NORAL INC
N153	NORDSON CORP.	N204	NEWMAN ASSOC INC
N154	NORRIS INDUSTRIES	N205	NUCLEAR ASSURANCE CORP.
N155	NORBATROL ELECTRIC CORP.	N206	NIPPON OIL CO LTD (JAPAN)
N156	NORRIS DISPENSER INC.	N207	NISSIN ELECTRIC CO LTD (JAPAN)
N157	NORMAN-HOFFMAN BRG.	N208	NEXUS RESEARCH LAB INC
N158	NORTHEAST UTILITIES SERVICE COMPANY	N210	NUCLEAR AUDIT & TESTING COMPANY
N159	NORSTRUM	N215	NUCLEAR BOLTING, INC.
N160	NORBOTROL ELECTRONICS	N220	NUCLEAR CHEMICALS & METALS CORP.
N161	NORGREN, C. A. COMPANY	N225	NUCLEAR COMPONENTS, INC.
N162	NORTH AMERICAN CARBON, INC.	N230	NUCLEAR CONSULTING SERVICES INC.
N163	NORMAN ENGINEERING	N233	NUCLEAR CONTAINERS, INC.
N164	NORMAN ASSOCIATES	N235	NUCLEAR CONTAINMENT SYSTEMS, INC.
N165	NORTH EQUIPMENT COMPANY	N240	NUCLEAR CONTROLE AND ELECTRONICS CORP.
N166	NORTHERN BOILER COMPANY	N245	NUCLEAR CORPORATION OF AMERICA
N167	NORTHERN INDIANA PUBLIC SERVICE COMPANY	N250	NUCLEAR DATA, INC.
N168	NORTH AMERICAN ROCKWELL CORP.	N255	NUCLEAR DEVELOPMENT LAB, INC.
N169	NORTHERN HEATING SUPPLY COMPANY	N260	NUCLEAR DIAGNOSTIC LABS, INC.
N170	NORTHERN MANUFACTURING	N265	NUCLEAR DIODES, INC.
N171	NORTH AMERICAN DOOR CORPORATION	N270	NUCLEAR DYNAMICS, INC.
N172	NORTH AMERICAN STEEL CORPORATION	N274	NUCLEAR ENERGY SERVICES INC.
N173	NORTHCOTT PRODUCTS COMPANY	N275	NUCLEAR ENGINEERING COMPANY, INC.
N174	NORGREN	N280	NUCLEAR ENTERPRISES, INC.
N175	NORTHERN SCIENTIFIC, INC.	N285	NUCLEAR ENVIRONMENTAL ENGINEERING, INC.
N176	NORTHERN ENGINEERING COMPANY	N290	NUCLEAR EQUIPMENT CHEMICAL CORP.
N177	NORTHERN STATES POWER COMPANY	N295	NUCLEAR EQUIPMENT CORP.
N178	NORTHERN STEEL	N300	NUCLEAR FUEL SERVICES, INC.
N179	NORTHERN CONTRACTORS SUPPLY INC.	N302	NUCLEAR INSTALLATION SERVICES CORP.
N180	NORTHROP CORPORATE LABORATORIES	N305	NUCLEAR MEASUREMENTS CORP.
N181	NORTHERN ILLINOIS STEEL & SUPPLY	N307	NUCLEAR MUTUAL LIMITED
N182	NORTH TEXAS STEEL COMPANY, INC.	N310	NUCLEAR PACIFIC, INC.
N183	NORTHWEST CONTROLS	N315	NUCLEAR POWER CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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N320	NUCLEAR POWER EXPERIENCE	0016	OAKLAND WIRE & IRON WORKS COMPANY
N322	NUCLEAR POWER SERVICES INC.	0017	OBERLE-JORDRE
N325	NUCLEAR RADIATION DEVELOPMENTS, INC.	0018	O'BRIEN ENGRS
N330	NUCLEAR RESEARCH CORP.	0019	OCEAN SURVEYS INC
N331	NUCLEAR SAFETY ANALYSIS CENTER (NSAC)	0020	OFFSHORE POWER SYSTEMS
N335	NUCLEAR SAFETY ASSOCIATES	0021	OHIO STEEL TUBE CO (X-REF C698)
N340	NUCLEAR SEMICONDUCTOR, INC.	0022	OHIO WOODWORKING CO INC
N345	NUCLEAR SERVICE & CONSTRUCTION CO., INC.	0023	OLIN BRASS
N350	NUCLEAR SERVICE LABORATORIES	0024	OHMART CORP.
N355	NUCLEAR SVCS CORP (NAME CHANGE-SEE Q012)	0025	OGALLALA ELECTRONICS
N360	NUCLEAR SHIELDING SUPPLIES & SVC, INC.	0026	OHMITE
N365	NUCLEAR SOURCES & SERVICES, INC.	0027	OHWELY, J. D. CONSTRUCTION
N370	NUCLEAR SUPPLY COMPANY	0028	OLYMPIC CONTROLS INC
N375	NUCLEAR SURVEILLANCE & AUDITING CORP.	0030	OHIO BRASS COMPANY
N380	NUCLEAR TECHNOLOGY CORP.	0031	OKLAHOMA GAS AND ELECTRIC COMPANY
N383	NUCLEAR VALVE DIVISION	0032	OHIO ELECTRIC COMPANY
N385	NUCLEAR MASTER SYSTEMS COMPANY	0033	OHIO GRATINGS INC.
N390	NUCLEAR-CHICAGO CORP.	0034	OILRITE CORP.
N395	NUCLEOMETRICS, INC.	0035	OHIO INJECTOR COMPANY
N400	NUCLEUS, INC., THE	0036	OIL INDUSTRIES MFG. & ENGINEERING
N405	NUCLIDE CORP.	0037	OIL-DYNE INC.
N406	NOTTINGHAM, J.B. INC	0038	OKADEE COMPANY
N407	NEW ENGLAND RESINS & PIGMENTS	0039	OIL STATES RUBBER COMPANY
N410	NUCOR CORP.	0040	OKONITE COMPANY, THE
N414	NUGENT & COMPANY INC.	0041	OLSON, C. E. COMPANY
N415	NUGENT, WILLIAM W. COMPANY	0042	OMAHA PUBLIC POWER DISTRICT
N417	NUMATICS	0043	OLSON ELECTRICS
N419	NORTH SHORE STEEL INC.	0044	OMARK INDUSTRIES, INC.
N420	NUMEC	0045	OMEGA ENGINEERING, INC.
N423	NUNN ELECTRIC SUPPLY	0046	OMNI SPECTRA, INC.
N425	NUPRO COMPANY	0047	OLD DOMINION FABRICATORS
N430	NUS CORP.	0048	OLD DOMINION IRON & STEEL CORP.
N431	NUTHERN INTERNATIONAL	0049	OLSONITE CORP
N435	NUTEC, INC.	0050	ONAN, D. W. & SONS, INC.
N436	NUTECH	0051	O'NEILL TANK COMPANY
N440	NUTEX CORP.	0052	O'NEIL, W. E. CONSTRUCTION COMPANY
N445	NUTS, INC.	0053	OHAUS SCALE CORP
N447	NWL TRANSFORMERS	0054	OLIVE ELECTRONICS INC
N450	NYLUBE PRODUCTS COMPANY	0055	OPELIKA WELDING, MACHINE & SUPPLY, INC.
0001	ONDYNE INC	0056	OWATONNA TOOL CO
0002	OAKLAND MACHINE WORKS	0057	OPERATORS SPECIALTY CO
0003	OAK-WAY MFG INC CO	0060	OPTICS FOR INDUSTRY
0004	OCE IND	0065	OPTRON CORPORATION - BETA DIVISION
0005	O'BRIEN, D. G. INC.	0066	ORION RESEARCH INC.
0006	O'CONNOR ASSOCIATES	0067	ORTMAN-MILLER MACHINE COMPANY INC.
0010	O'DONNELL & ASSOCIATES, INC.	0068	ORTNER FREIGHT CAR COMPANY
0011	OCTRA INC	0069	ORBIT VALVE COMPANY
0012	O'HAIR, P.E. & CO	0070	ORTEC, INC.
0013	O'NEAL STEEL INC	0071	ORLEY MEYER INC.
0014	O & M MANUFACTURING COMPANY	0072	ORR SAFETY EQUIP CO
0015	OAT, JOSEPH AND SONS, INC.	0073	ORGANIC PRODUCTS CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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0074	OSWEGO SHEET METAL	P039	PACIFIC SOUTHERN FOUNDRY INC
0075	OSBORNE ELECTRIC	P040	PACKARD INSTRUMENT COMPANY, INC.
0076	OPTICAL SYSTEMS RESEARCH INC	P041	PACO CORPORATION
0077	OPTIMIZATION MARKETING	P042	PACECO
0080	OSTER MANUFACTURING COMPANY	P043	PAN-PACIFIC SUPPLY COMPANY INC.
0085	OTIS ELEVATOR COMPANY	P044	PAXTON PRODUCTS INC.
0087	OTTOMA SILICA	P045	PAGE ENGINEERING COMPANY
0090	OVERHEAD CRANE & SERVICE	P046	PAGET COMPANY
0095	OVERHEAD DOOR COMPANY	P047	PANAMETRICS INC.
0096	OVERHEAD DOOR OF INDIANA	P048	PAK-TRONICS
0100	OVERHOFF & ASSOCIATES	P049	PANDUIT CORP.
0101	OVERLAND STEEL INC.	P050	PALL TRINITY MICRO CORP.
0105	OVERLY MANUFACTURING COMPANY	P051	PANELS INC.
0110	OWEND-CORNING	P052	PALMER INSTRUMENT COMPANY
0111	OWENSBORO IRON WORKS	P053	PALMER INSTRUMENTS, INC.
P003	P B I INDUSTRIES	P054	PAHOTOR
P004	P & W INDUSTRIES	P055	PANALARM COMPANY
P005	P. X. ENGINEERING COMPANY	P056	PANEL DESIGN, INC.
P006	PAH HEVI-LIFT HOISTS	P057	PANELLIT, INC.
P007	P. R. I. SOUND CONTROL, INC.	P058	PAPER CALHENSON COMPANY
P008	PAC POWER INC.	P059	PANLMATIC CORPORATION
P009	PACE STEEL	P060	PANGBORN CORP.
P010	P.P.I.	P061	PAR CORP.
P011	PACE TRANSDUCER COMPANY	P062	PARAGON ELECTRIC COMPANY
P012	PACIFIC CRANE	P063	PANEL OVEN ENGINEERING
P013	PACIFIC COAST ENGINEER COMPANY	P064	PARDO, J. C. & SON INC.
P014	PACIFIC AIR PRODUCTS	P065	PARAMETER, INC.
P015	PACIFIC ELECTRIC MANUFACTURING	P066	PARKER APPLIANCE COMPANY
P016	PACIFIC ENGINEERING	P067	PARKER BROTHERS
P017	PACIFIC GAS & ELECTRIC COMPANY	P068	PARKLINE CORP.
P018	PACIFIC GAS EQUIPMENT	P069	PANROD INC.
P019	PACIFIC HYDRO	P070	PARKER HANNIFIN CORP.
P020	PACIFIC NUCLEAR PRODUCTS	P071	PARAGON STEEL CORPORATION
P021	PACIFIC PIPE COMPANY	P072	PANTEX VALVE ACTUATORS
P022	PACIFIC ELECTRIC INSTRUMENT LABORATORY	P073	PANASONIC CO
P023	PACIFIC READY-MIX, INC.	P074	PETROLITE CORP
P024	PACIFIC FIRE EXTINGUISHER COMPANY	P075	PARKER PACKING COMPANY
P025	PACIFIC PUMPS	P076	PARSONS PEBBLES-ELEC PRODS INC
P026	PACIFIC PUMPING COMPANY	P077	PIPING & EQUIP INC
P027	PACIFIC ROLLING DOOR COMPANY	P078	PAL CONSULTANTS
P028	PACIFIC STATES STEEL CORP.	P079	PARKLINE INC
P029	PACIFIC SCIENTIFIC COMPANY	P080	PARKERSBURG RIG & REEL
P030	PACIFIC STEEL PRODUCTS COMPANY	P081	PAUL TRINITY MICRO CORP.
P031	PACIFIC TRANSDUCER CORPORATION	P082	PARKER SEAL COMPANY
P032	PACIFIC VALVES, INC.	P083	PATTERSON FOUNDRY & MACHINE COMPANY
P033	PACIFIC POWER CONTROL, INC.	P084	PASSAVANT CORPORATION
P034	POWELL-TRINITY EQUIP CO (X-REF M101)	P085	PARSONS, RALPH M. COMPANY
P035	PACKARD ELECTRIC COMPANY	P086	PASCHEN CONSTRUCTION COMPANY
P036	PACIFIC TUBE CO	P087	PARTLOW CONT.
P037	POLYMETRICS (FILTER MFG)	P088	PARTLOW CORP.
P038	PACER INDUSTRIES INC	P089	PATTERSON-KELLEY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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P090	PATHWAY BELLOWS, INC.	P141	POLYSCIENCE CORP
P091	PATTEN INDUSTRIES, INC.	P142	PROCEDYNE CORP
P092	PATTERSON STEEL COMPANY	P143	PROTECTOWIRE
P093	PATEIG TESTING LABORATORIES COMPANY	P144	PIONEER ELECTRIC & RESEARCH CORP
P094	PATTERSON PUMP-DIV OF JERSEY EQUIP. CO.	P145	PENN TRANSFORMER DIVISION
P095	PAUL-MUMROE HYDRAULICS INC.	P146	PHOTODYNE INC
P096	PAWTUCKET MANUFACTURING	P147	PROCESS AND INDUSTRIAL FAB CO
P097	PDM STEEL	P148	PENINSULA STEEL PRODUCTS & EQUIP CO
P098	PATENT SCAFFOLDING COMPANY	P150	PENN UNION ELECTRIC
P099	PEABODY-BARNES COMPANY	P151	PENNIMAN & BROWNE, INC.
P100	PEABODY ENGINEERING CORP.	P152	PENN VENTILATOR COMPANY
P101	PEABODY CONTINENTAL-HEINE	P153	PENNSYLVANIA CRUSHER CORP.
P102	PDM SOLA FLEX	P154	PENNSYLVANIA POWER & LIGHT COMPANY
P103	PEABODY TESTING LABORATORY	P155	PENHWALT CORP.
P104	PATTERSON PUMP DIVISION (GEORGIA)	P156	PENNSYLVANIA COMPANY TRANSFORMER DIVISION
P105	PEARSON MANUFACTURING	P157	PENNSYLVANIA RADIOGRAPHIC LABORATORY
P106	PECORA CHEMICAL COMPANY	P158	PEORIA PUMP & EQUIPMENT, INC.
P107	PERFECTO CAST COMPANY	P159	PENNSYLVANIA SEPARATOR CORP.
P108	PERCO CORP.	P160	PERFEX, INC.
P109	PEDEN INDUSTRIES	P161	PERFEX ENERGY SYSTEMS DIVISION
P110	PEELLE COMPANY	P162	PERFEX ENGINEERING
P111	PEERLESS METAL FABRICATORS INC.	P163	PERELLA, PETER & COMPANY
P112	PEERLESS MANUFACTURING COMPANY	P164	PELLERIN COMPANY
P113	PEERLESS CONVEYOR & MANUFACTURING COMPANY	P165	PERKIN-ELMER CORP., THE
P114	PEERLESS NUCLEAR CORP.	P166	PERKINSON, WILLIAM J. COMPANY
P115	PEERLESS PUMP COMPANY	P167	PEREK FABRICATORS, INC.
P116	PENN BANGOR INC.	P168	PORTLAND ENGINEERING CO INC
P117	PENBERTHY, DIV. OF HOUDAILLE INDUSTRIES	P169	PEERLESS INDUSTRIES INC
P118	PELCO DISTRIBUTORS	P170	PERHALT, INC.
P119	PENFOLD, NEALE B. ENGINEERING	P171	PERHALAB EQUIP CORP
P120	PEERLESS WATER SOFTNER	P172	PLENUM PUBLISHING CORP
P121	PENN AIR	P173	PHILIPS TEST & MEASURE INSTRUMENT
P122	PACIFIC CHEMICAL COMPANY	P174	PERRY TURNSTYLES
P123	PENNSALT CHEMICAL CORP.	P175	PERHUTIT COMPANY, THE
P124	PENBERTHY INJECTOR COMPANY	P176	PERRY EQUIPMENT CORP.
P125	PENBERTHY MANUFACTURING COMPANY	P177	PESCO (PUMP EQUIPMENT & SERVICE COMPANY)
P126	PENCO PRODUCTS INC.	P178	PERTEC COMPUTER CORP
P127	PENN-DIXIE STEEL CORP.	P179	PETERSON ELECTRIC PANEL MANUFACTURING CO.
P128	PENN BASO CONTROLS	P180	PET HEAT & POWER COMPANY
P129	PENN CONTROLS INC.	P181	PETRO-CHEM EQUIPMENT COMPANY
P130	PENN FLEX METAL TUBING	P182	PETER PAUL ELECTRONICS
P131	PENN INDEPENDENT SPRINKLER COMPANY	P183	PETTIBONE COMPANY
P132	PENN METER COMPANY	P184	PETERSON WELDING & FABRICATING CORP.
P133	PEABODY COAL COMPANY	P185	PETERSON, ARTHUR V. ASSOCIATES
P134	PEABODY NOISE CONTROL INC.	P186	PETERSON, FRED CONSTRUCTION COMPANY
P135	PENN PUMP & COMPRESSOR	P187	PETERSON DIVING SERVICE
P136	PALL INDUSTRIAL HYDRAULIC	P188	PETTIBONE WIRE MATERIAL
P137	PENNOYER DODGE CO	P189	PETERSON ENGINEERS
P138	PENN AIRBORNE PRODUCTS CO	P190	PETERSON TRACTOR CORP.
P139	PROPEL INC	P191	PHELPS DODGE CORP.
P140	PENN STATE TOOL & DIE CORP.	P192	PHILADELPHIA ELECTRIC COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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P193	PHILCOFLEX, INC.	P244	PIPE DISTRIBUTERS INC.
P194	PPAULDER (SYBROM CORP.)	P245	PIPE LINE PROTECTION COMPANY
P195	PHILADELPHIA GEAR CORP.	P246	POWELL ELECTRICAL MANUFACTURING CORP.
P196	PFAPF & KENDALL	P247	POWERS-AECO-POPE
P197	PHILBRICK/NEXUS RESEARCH INC.	P248	PORTABLE TOOL SALES & SERVICE, INC.
P198	PHILIPP MFG CO	P249	PLASTECH CORP.
P199	PLUMMER & LAWLEY CO	P250	PIPE MACHINERY COMPANY
P200	PHILCO FORD CORP.	P251	PORCELAIN PRODUCTS COMPANY
P201	PACIFIC FIBERGLASS CO	P252	PITTSBURGH ACTIVATED CARBON
P202	PITTSBURGH BRASS MFG CO	P253	PITTSBURGH-CORNING
P203	PHILPOT, R. D. INDUSTRIES, INC.	P254	POWER & ENGINEERED PRODUCTS COMPANY, INC.
P204	PHILLIP CAREY MANUFACTURING COMPANY, THE	P255	PITTSBURGH CRANE & CONVEYOR COMPANY
P205	PHILLIPS-ELMET CORP.	P256	PRECAST CONCRETE SPECIALTY
P206	PHILLIPS ELECTRONICS INDUSTRIES (FOREIGN)	P257	PITTSBURGH METALS
P207	PHILLIPS COMPANY	P258	PORA CONSTRUCTION COMPANY
P208	PHILLIPS & OBER ELECTRIC SUPPLY	P259	PNEUMERCATOR COMPANY INC.
P209	PHILLIPS, H. A. & CO	P260	PITTSBURGH BRIDGE & IRON
P210	PHILLIPS & DAVIES	P261	PITTSBURGH PLATE GLASS COMPANY
P211	PHOENIX SUPPLY COMPANY	P262	PITTSBURGH TESTING LABORATORY
P212	PHILLIPS - GETSCHOW COMPANY	P263	FLOUGH ELECTRIC SUPPLY COMPANY
P213	PHOENIX MANUFACTURING COMPANY	P264	POPE METAL FABRICATOR, INC.
P214	PHOENIX STEEL	P265	PITTSBURGH TRANSFORMER
P215	PHYSICAL SCIENCES CORP.	P266	PORTS, FRED JR. ASSOCIATES
P216	PHYS-CHEMICAL RESEARCH CORP.	P267	PITTSBURGH VALVE AND FITTING COMPANY
P217	PHOENIX CHEMICAL LABORATORY INC	P268	PORTLAND COMPANY, THE
P218	PETERS LTD (ENGLAND)	P269	PLANGLOG INC.
P219	PIPKORN CORP	P270	PITTSBURGH-DES MOINES STEEL COMPANY
P220	PHYSICS INTERNATIONAL COMPANY	P271	PLAINS MACHINERY COMPANY
P221	PLYMOUTH PUMP CO	P272	PLAINVILLE MANUFACTURING COMPANY
P222	PLEXIFRAMES	P273	PLANT CITY STEEL COMPANY
P223	PUMP REPAIR SERVICE CO INC	P274	PLANT MAINTENANCE SERVICE CORP.
P224	PONCRAFT DOOR CO	P275	PLASTER PRODUCTS
P225	PICKARD, LOWE & ASSOCIATES	P276	POLUTION CONTROL-WALTHER, INC.
P226	PIEPER ELECTRIC, INC.	P277	PLASTO-MATIC
P227	PLANT INSULATION	P278	PLASTOMETICS
P228	PITTSBURGH BRASS MFG CO	P279	PLASTIC FLUID SYSTEMS
P229	PIPING SUPPLY CO INC	P280	PLASTIGAGE
P230	PICKER CORP.	P281	PLEUGER SUBMERSIBLE PUMPS
P231	PIRKENROAD SEPARATOR COMPANY	P282	PONONA AIR INC.
P232	PEN VENTILATOR COMPANY, INC.	P283	PLUMBING SUPPLY COMPANY
P233	PINE, WILLIAM S.	P284	PNEUMAFLOW, INC.
P234	PILGRIM INSTRUMENT & CONTROLS	P285	PLYMOUTH TUBE
P235	PIONEER ALUMINUM INC.	P286	PNEUMATIC ELECTRIC
P236	POWER LINE FANS (DIV ALLIED THERMAL CORP)	P287	P.N.I.
P237	PIONEER FIREPROOF DOOR CORPORATION	P288	POLYPHASE INSTRUMENT COMPANY
P238	PIONEER INDUSTRIES	P289	POPE-MORRISON COMPANY
P239	POWER IRON INC.	P290	PORTA POWER
P240	PIONEER SERVICE & ENGINEERING COMPANY	P291	PORCELAIN ENAMEL FINISHERS
P241	PIONEER STANDARD	P292	PORTEC INCORPORATED
P242	PIPECO STEEL CORP.	P293	POPE, WILLIAM A. COMPANY, THE
P243	PIPE FABRICATING AND SUPPLY	P294	PORTER COATINGS COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
P295	PORTER, H. K. COMPANY, INC.	P340	PRECISION FLOW PRODUCTS INC.
P296	PORTER PTERLESS MOTORS	P347	PRECISION CASTING
P297	POTTER & BRUMFIELD	P348	PRECISION FABRICATORS, INC.
P298	PORTLAND CEMENT ASSOCIATION	P349	PRECISION CONTROL PRODUCTS CORP.
P299	PORTER INSTRUMENTS	P350	PRECISION SCIENTIFIC COMPANY
P300	PORTERSVILLE EQUIPMENT COMPANY	P351	PRECISION METALS INC.
P301	PORTLAND GENERAL ELECTRIC COMPANY	P352	POWER-SONIC CORP
P302	POTTER ELECTRIC SUPPLY & MANUFACTURING INC	P353	PREFERRED UTILITIES MFG CORP
P303	POSEY IRON WORKS	P354	PRECISION MACHINE CO
P304	POSI-SEAL	P355	PRECISION STANDARDS CORP.
P305	POWELL, WILLIAM COMPANY, THE	P356	PUREX CORP
P306	POSTELL, J. A.	P357	POHANG IRON & STEEL CO LTD
P307	POTTS, HORACT T. CO. (SPREEDLINE FITTINGS)	P358	PROXIMITY CONTROL INC
P308	POWER FIRING COMPANY	P359	PRECISION TIMER COMPANY INC.
P309	POWELL ELECTRIC COMPANY	P360	PRECISION THERMOMETER & INSTRUMENT COMPANY
P310	POWELL MANUFACTURING AND ELECTRICAL CORP.	P361	PRENTIS, J. L. & COMPANY
P311	POWER TRONICS	P362	PRE-CON INC.
P312	POWELL, M. W. COMPANY	P363	PRESCO PRODUCTS INC.
P313	POWER AUTHORITY OF THE STATE OF NEW YORK	P364	PRESANT INDUSTRIAL SUPPLY
P314	POWER-MATE	P365	PRESCON CORP., THE
P315	POWER EQUIPMENT COMPANY	P366	PRESSURE VESSELS INC
P316	POWER ENGINEERING AND EQUIPMENT COMPANY	P367	PRESTIGE STAMPING INC
P317	POWER PIPING COMPANY	P368	PRESPRAY CORP. (SEE P370)
P318	POWER SYSTEMS	P369	PRESSURE PRODUCTS COMPANY, INC.
P319	POWER CONVERSION PRODUCTS, INC.	P370	PRESPRAY CORP., THE (SEE P368)
P320	POWERLITE SWITCHBOARD	P371	PRICE PUMP COMPANY
P321	POWERS REGULATOR COMPANY	P372	PULLMAN CONSTRUCTION INDUSTRIES
P322	POWER TECH	P373	PRIE CO, INC.
P323	POWER DESIGNS INC.	P374	PROTECTIVE COATINGS
P324	POWER DRIVES AND BEARINGS	P375	PRICE SUPPLY CO INC
P325	POWELL PRODUCTS COMPANY	P376	PROCESS ENGG & SALES INC
P326	POWER CONTROL	P377	PRESSED STEEL TANK COMPANY
P327	POWELL MAGNETIC INDUSTRIES	P378	PRINCE VALVE, INC.
P328	POOL FOUNDRY & MACHINE COMPANY	P379	POTTER-ROEMER INC
P329	POWER INSTRUMENTS INC.	P380	PRESSIN COMPANY
P330	PPB, INC.	P381	PRESSURE CONTROLS INC.
P331	PPG INDUSTRIES	P382	PYROMETER INSTRUMENT COMPANY, INC.
P332	PRATER INDUSTRIES, INC.	P383	PRODUCTION STEEL COMPANY
P333	PRATT ENGINEERING	P384	PRESSURE SYSTEMS, INC
P334	POWER MACHINE COMPANY	P385	PRESSURE PRODUCTS INDUSTRIES
P335	PRATT WHITNEY AIRCRAFT	P386	PROTECTIVE CONTROLS, INC.
P336	PRAIRIE TANK & CONSTRUCTION COMPANY	P387	PRESSURE SWITCH COMPANY
P337	PREMIER-PNEUMATICS, INC. (SEE P339)	P388	PRESSURE VALVE--DRESSER I.V.I. DIVISION
P338	PRE-TEMP COMPANY	P389	PRICE BROTHERS COMPANY
P339	PREMIER-PNEUMATIC, INC. (SEE P337)	P390	PRINCETON APPLIED RESEARCH CORP.
P340	PRATT, HENRY COMPANY	P391	PROCESS EQUIPMENT BUILDERS INC.
P341	POWELL, WILLIAM COMPANY	P392	PRINGLE ELECTRICAL MANUFACTURING COMPANY
P342	PREFAB PIPE AND SUPPLY COMPANY, INC.	P393	PULLMAN INC.-POWER PRODUCTS DIVISION
P343	PRESCOLITE	P394	PROGRESSIVE HYDRAULICS INC.
P344	PRECIPITATOR POLLUTION CONTROL	P395	PRISON COMPANY, INC.
P345	PRECIPITATION COMPANY	P396	PROTECTO SEALS COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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P397	PRITCHARD PRODUCTS CORP.	P448	PRODUCTOS ELECTRONICOS INC
P398	PROCTOR PRODUCTS INC.	P449	PHENY INC
P399	PROCESS ENGINEERING, INC.	P450	PURDY, WM. J. CO
P400	PROCESS EQUIPMENT COMPANY, INC.	P451	PROTECTIVE DOOR INDUSTRY
P401	PROCESS SOLVENTS	P452	PROTO TOOL CO (INGERSOLL-RAND I075)
P402	PROCESS EQUIPMENT CORP.	P453	PULLMAN PWR PROD CORP
P403	PROCESS SALES	P454	PUROLATOR INC
P404	PROCESS INSTRUMENT	P455	PNEUMAFIL CORP
P405	PROGRAMMED & REMOTE SYSTEMS CORP.	P456	PRIORITY ONE ELECTRONICS
P406	PRODUCTS RESEARCH & CHEMICAL COPORATION	P458	PMC/BETA
P407	PRODUCTION MEASUREMENTS CORPORATION	P459	PAULSON ENGINEERING INC
P408	PROCESS CONSTRUCTORS INC.	P460	POWER ENTERPRISES INC
P409	PROCESS AUTOMATION COMPANY	Q001	Q DOT CORP.
P410	PROGRESS MANUFACTURING	Q002	QUALIGAGE COMPANY
P411	PRODUCTORS ELECTRONICS INC.	Q003	QUAKER ALLOY CASTINGS COMPANY
P412	PRO QUIP INC.	Q004	Q.A. CORPORATION
P413	PUGET SOUND POWER & SUPPLY COMPANY	Q005	QUARTE PRODUCTS CORP.
P414	PURILATOR PRODUCTS INC.	Q006	QUAKER CITY GEAR WORKS INC.
P415	PROGRESSIVE FAB, INC.	Q007	QUIMBY PUMP
P416	PROTECTION SPRINKLER COMPANY	Q008	QUINCY COMPRESSOR COMPANY
P417	PROSSER INDUSTRIES	Q009	QUEEN PRODUCTS COMPANY
P418	PUMP EQUIPMENT & SERVICE COMPANY	Q010	QUINDAR ELECTRONICS INC.
P419	PROTECTIVE CLOSURE COMPANY, INC.	Q011	QUALITROL CORP.
P420	PROTECTIVE PACKAGING INC.	Q012	QUADTREX (NAME CHANGE FROM N355)
P421	PSI PRODUCTS, INC.	Q013	QUAD CITIES AUTOMATIC SPRINKLER COMPANY
P422	PUBLIC SERVICE COMPANY OF COLORADO	Q014	Q CON, INC.
P423	PUBLIC SERVICE ELECTRIC & GAS COMPANY	Q015	QUANEX CORP (X-REF M489)
P424	PUBLIC SERVICE OF INDIANA	Q016	QUERMENT ELECTRONICS
P425	PULSATION CONTROLS CORP.	Q018	QUALITY FLOOR COVERING CO
P426	PURNEY ENGINEERING COMPANY	Q019	QUALITY TESTING INC
P427	PYCO	Q020	QUALITY AIR DESIGN
P428	PUTNAM COMPANY	Q021	QUALITY CONTROL EQUIP CO
P429	PYCO-TRINITY	Q022	QUELCOR INC
P430	PYLE-NATIONAL DIVISION	R001	RKL CONTROLS INC. (SEE R003)
P431	PUTNAM, P. F. FABRICATION	R002	RPC ELECTRONICS
P432	PULLMAN-KELLOGG	R003	R K L CONTROLS, INC. (SEE R001)
P433	PYE-T.V.T., LTD.	R004	R-K ELECTRIC INC.
P434	PYRENE	R005	R&IE
P435	PYROTRONICS	R006	R & H STEEL BUILDINGS INC.
P436	PYXIS, INC.	R007	RACINE FLUID POWER PRODUCTS
P437	PYBUS STEEL	R008	RTE DELTA CORP.
P438	PULLMAN SHEET METAL WORKS INC.	R009	RADACHI
P439	PULSASEEDER INTERFACE CORPORATION	R010	RADAK CORP.
P440	PUROFLOW CORP.	R011	RADEMAKER CORPORATION
P441	PULLMAN INC.	R012	RADECO, INC.
P442	PETTIBONE CORPORATION	R013	RANCO INC.
P443	PYR-A-LARM COMPANY	R014	RCH IND
P444	PROJECT SOLFWARE & DEVICE, INC.	R015	RADFORM TOOL COMPANY
P445	PROTECTIVE MATERIALS CO INC	R016	RBM CO INC
P446	POWER & ENGINEERED PRODUCTS CO	R017	RADIAN CORPORATION
P447	POTTER ELECTRIC SIGNAL CO	R018	RADIATION COUNTER LAB, INC.

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CODE	VENDOR NAME
R019	RAM METER INC
R020	RADIATION DYNAMICS, INC.
R021	RITCHIE ENGINEERING CO INC
R022	RAYMOND ENGINEERING INC
R025	RADIATION ELECTRONICS INC.
R030	RADIATION INDUSTRIES INC.
R033	RADIATION INSTRUMENT
R035	RADIATION INTERNATIONAL INC.
R040	RADIATION MANAGEMENT CORP.
R045	RADIATION MATERIALS COMPANY INC.
R050	RADIATION RESEARCH ASSOCIATES, INC.
R055	RADIATION SERVICE ASSOCIATES
R060	RADIATION TECHNOLOGY INC.
R061	RAECO INC
R062	RADIOLOGICAL & CHEM TECHNOLOGY INC.
R063	RADIOMETER-COPENHAGEN
R064	RANK SCHEER - TUMICO
R065	RADIO RECEPTOR COMPANY
R066	RAGAN CO
R067	RADIO EQUIP DISTRIBUTORS
R068	RATELCO INC
R069	RACAL-VADIC
R070	RADIOLOGICAL SYSTEMS
R071	RAMAPO INSTRUMENT COMPANY, INC.
R072	RALCO
R073	RADONI
R074	RAMSON & COMPANY
R075	RADIUM CHEMICAL COMPANY, INC.
R076	RASTONE COMMERCIAL REFRIGERATION CORP.
R077	RAILWAY SPECIALTIES CORP.
R078	RAMAPO INSTRUMENT COMPANY, INC.
R079	RAGNAR BENSON, INC.
R080	RAHISER, ROBERT M. & ASSOCIATES, INC.
R081	RAINEAR, C. J. INC.
R082	RAMCON CORP.
R083	RAM FORGED STEEL, INC.
R084	RAMSET OPERATIONS WINCHESTER GROUP
R085	RAMSEY ENGINEERING
R086	RAMCO INDUSTRIES INC.
R087	RAPISTAN, INC.
R088	RANDOLPH, WM. A. INC. GENERAL CONTRACTORS
R089	RAMCO FABRICATORS & SUPPLY COMPANY
R090	RAWSON-LUSH INSTRUMENT COMPANY, INC.
R091	RAWLINSON ELECTRIC COMPANY
R092	RAMCO STEEL INC.
R093	RAY ENGINEERING COMPANY
R094	RAYBESTOS MANHATTAN INDUSTRIAL PRODUCTS CO
R095	RAY PROOF CORP.
R096	RAY AIRCRAFT SUPPLY COMPANY
R097	RAY WELCH INSTRUMENT
R098	RAYCHEN CORP.

CODE	VENDOR NAME
R100	RAYMOND BROTHERS PULVERIZER
R101	RAYNEY CO, THE
R102	RAYMOND CONTROLS
R103	RAYMOND INTERNATIONAL
R104	RAYNOR COMPANY
R105	RAYTHEON COMPANY
R106	RAYNOR MANUFACTURING COMPANY
R107	RANDOLPH MFG CO INC
R110	RCA COMMUNICATIONS SYSTEMS DIVISION
R115	RCA ELECTROMAGNETIC & AVIATION SYSTEMS DIV
R120	RCA ELECTRONIC COMPONENTS
R125	RCA MISSILE AND SURFACE RADAR DIVISION
R130	RCA SOLID STATE DIVISION
R131	RECORA CO
R132	REIMANN & MCKINNEY INC
R133	RCA VICTOR DISTRIBUTING CORPORATION
R134	REECE, M. F. ASSOCIATES, INC.
R135	RDF CORP.
R136	RED HEAD/PHILLIPS DRILL COMPANY
R137	RED VALVE COMPANY
R138	REDA PUMP COMPANY
R139	REES INSTRUMENTS LTD.
R140	REACTOR CONTROLS INC.
R141	REDINGTON COUNTER INC
R142	REGAL TUBE CO (COPPERWELD TUBING GR)
R143	RED LION CONTROLS
R144	RKR ENGG CO
R145	REACTOR EXPERIMENTS, INC.
R146	REGO
R147	REDDING, JAMES A. COMPANY
R148	READY ELECTRIC COMPANY INC.
R149	READINGTON COUNTERS
R150	READING CHAIN & BLOCK
R151	READY-POWER COMPANY
R152	R.E.C. CORP.
R153	REID AVERY COMPANY
R154	REINKE & SCHOMAN
R155	RECO
R156	REED ELECTRIC
R157	REESE, W. J. TESTING LABORATORY
R158	REFRIGERATING SPECIALTIES COMPANY
R159	RELIANCE CUSTOM CONTROLS
R160	RELIANCE ELECTRIC & ENGINEERING
R161	RELIABLE METAL
R162	RELIANCE UNIVERSAL INC.
R163	RELIABLE FIRE EQUIPMENT COMPANY
R165	RELIANCE ELECTRIC COMPANY
R167	RELIANCE GAUGE COLUMN COMPANY
R170	RELIABLE STEEL PRODUCTS
R171	RELIABLE SHEET METAL WORKS INC.
R172	RELIANCE STEEL & ALUMINUM

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CODE	VENDOR NAME	CODE	VENDOR NAME
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R173	RELIANCE TRUCK COMPANY	R243	RF MCDONALD COMPANY
R174	RENCO HYDRAULICS (ABEX CORP.)	R244	RHEEN MANUFACTURING COMPANY
R175	REM INC.	R245	RFL INDUSTRIES INC.
R176	REFRIGERATION RESEARCH CO	R246	RHEEM WATER HEATER DIVISION
R177	REMINGTON ARMS COMPANY	R247	RHODES CONTROLS INC.
R178	REMSCO	R248	RIC-WIL, INC.
R179	REBEL WELDING SUPPLY INC	R249	RICH, INC.
R180	REMBAR COMPANY, INC., THE	R250	RICHARDS OF ROCKFORD, INC.
R181	RELIANT HEATING & CONTROLS	R251	RICHARD GOETTLE, INC.
R185	REMOTION COMPANY	R252	RICHARDS TANK CORP.
R186	REPUBLIC DIESEL TRK & MACH DIV (REP. WLDG)	R253	RICHARDS, R. P. INC.
R187	REPUBLIC FABRICATORS, INC.	R254	RICHARDS, L. K.
R190	REMPE COMPANY	R255	RICHARDS WILCOX DIVISION
R191	RATHGEBER COMPANY	R256	RICHARDS-WILCOX MANUFACTURING COMPANY
R192	RENEWO VALVE COMPANY	R257	RHEEM RUUD MANUFACTURING COMPANY
R193	REOTEMP INSTRUMENT COMPANY	R260	RICHARDSON COMPANY, THE
R194	REPPPEL STEEL	R261	RIST & ASSOCIATES, INC.
R195	REPUBLIC FLOW METERS	R262	RIVERSIDE ARCHITECTURAL METAL COMPANY
R196	REPUBLIC ELECTRIC & DEVELOPMENT COMPANY	R263	RICHARDSON ELEC INC
R197	REPUBLIC MANUFACTURING COMPANY	R264	RITE (WEST GERMANY)
R198	REPUBLIC SYSTEMS CORPORATION	R265	RICHARDSON SCALE
R199	REPCO ENGINEERING INC.	R266	RIOPELLE ENGINEERING SALES INC.
R200	REPUBLIC STEEL CORP.	R267	RITTER ENGINEERING COMPANY INC.
R201	REPUBLIC BUILDERS PRODUCTS CORP.	R268	RITTEL MUFFLER & ENGINEERING COMPANY
R202	RESEARCH DYNAMICS INC	R269	RMC INC.
R205	RESEARCH INDUSTRIES LTD.	R270	RICHARDSON-ALLEN CORP.
R210	RESEARCH, INC.	R271	RICHMOND STEEL DIVISION OF SPAN-GLASS INC.
R211	RESEARCH COTTRELL, INC.	R272	RIFF ENGINEERING COMPANY
R213	RESERVE MINNING CORP.	R273	RITE WITE CORP.
R214	RESOURCE CONSERVATION COMPANY	R274	RIDGID TOOL COMPANY
R215	RESIN-FAB CORP.	R275	RICHMOND FIRE DOOR COMPANY
R216	RETEC DEVELOPMENT LAB - BURTON DIVISION	R276	RICHMOND SCREW-ANCHOR COMPANY, INC.
R217	REULAND ELECTRIC COMPANY	R277	RIETH-RILEY CONSTRUCTION COMPANY, INC.
R218	REUTHER MOLD & MANUFACTURING INC.	R278	RILEY COMPANY, THE
R219	REUTER STEEL	R279	RILEY COMPANY, THE - PANALARK DIVISION
R220	REUTER-STOKES ELECTRIC COMPANY	R280	RICHMONDS ENGINEERING COMPANY
R225	REUTER-STOKES ELECTRIC COMPANY (CANADA)	R281	RILEY-BEAIRD, INC.
R229	REVERE CORPORATION OF AMERICA	R282	RIPPEL ARCHITECTURAL METALS
R230	REVERE ELECTRONICS DIVISION	R283	RILEY STOKER COMPANY
R231	REX, J.W. CO	R284	RIGGS NUCLEONICS CORP.
R232	REXNORD INC (MATERIALS HANDLING DIV)	R285	ROBBINS & MYERS
R233	REXNORD INC.	R286	RIVER CORP.
R234	REXNORD INC-HYDRAULIC SYSTEMS DIVISION	R287	ROBERTS, R. W.
R235	REX CHAINBELT	R288	RIVERSIDE INDUSTRIES, INC.
R236	REXNORD, INC. - CYLINDER DIVISION	R289	RIVER STEEL
R237	REXNORD, INC. - CONSTRUCTION MACHINERY DIV	R290	ROBERTSHAW CONTROLS COMPANY
R238	REX SUPPLY COMPANY	R291	RIVA-CALIONI
R239	REXROTH CORP	R292	RINGLAND-JOHNSON COMPANY
R240	REYNOLDS MANUFACTURING COMPANY	R293	ROBERTS-BOE INC.
R241	REYNOLDS SUPPLY INC.	R294	ROBBINS LIGHTNING INC.
R242	REYNOLDS METAL	R295	ROBERTSON COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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R296	RAY WELCH, INC.	R347	ROEMER ELECTRIC STEEL FOUNDRY COMPANY
R297	RIO ENGINEERING COMPANY	R348	RODOFOAM II
R298	R.O. VALVE COMPANY	R349	ROCKFORD FABRICATING & SUPPLY
R299	ROBART PARTITION COMPANY	R350	ROHM AND HAAS COMPANY
R300	ROBERTSON MANUFACTURING COMPANY	R351	ROCKFORD CEMENT PRODUCTS
R301	ROBERTSON, H. H. AMBRIDGE DIVISION	R352	ROCKBESTOS COMPANY
R302	RAYCO EQUIPMENT INC.	R353	ROHN COMMUNICATION FACILITIES COMPANY, INC
R303	ROBERTS & SCHAEFER COMPANY	R354	ROCK VALLEY WATER CONDITIONING, INC.
R304	ROGERS ENGINEERING COMPANY INC.	R355	ROHN JFG
R305	ROBICON, INC.	R356	ROCHESTER GAUGES INC.
R306	ROBYON BACKING RINGS COMPANY	R357	ROLL FORM PRODUCTS INC.
R307	ROBINS ENGINEERS & CONSTRUCTORS	R358	ROPER WHITNEY INC.
R308	ROBINSON CARTAGE COMPANY	R359	ROMAN AND KUNZIE INC.
R309	ROBINSON & ASSOCIATES INC.	R360	ROLLER SMITH CORP.
R310	ROBINSON CORP.	R361	ROMAN ENGINEERING COMPANY
R311	ROBINSON JANITORIAL SUPPLY COMPANY	R362	ROOTS - CONNERSVILLE BLOWER
R312	ROBINSON-HALPERN COMPANY	R363	ROMAN ALARM SYSTEMS
R313	ROBINSON, E. J. GLASS COMPANY	R364	RON, WALTER B. & SON INC.
R314	ROANOKES ELEC STEEL CORP	R365	ROPER, GEORGE D. CORP.
R315	ROBINSON ORIFICE	R366	ROHET COMPANY
R316	ROSSBACH & SONS INC	R367	ROSCO-KENT
R317	ROME CABLE CORP	R368	ROPER HYDRAULICS, INC.
R318	ROHN METAL FABRICATING INC	R369	ROSEMOUNT, INC.
R319	ROCKY MOUNTAIN CHEMICAL CO	R370	ROSEMCUNT ENGINEERING COMPANY
R320	ROBOT APPLIANCE	R371	ROSE OIL INDUSTRY SUPPLY CORP.
R321	ROCKY MOUNTAIN NUCLEAR	R372	ROSAEM
R322	ROBOTARM	R373	ROSEMOUNT NASHVILLE INC.
R323	RURAL ELEC CONVENIENCE COOP	R374	ROPER PUMP COMPANY
R324	RUDOX ENGINE & EQUIP CO	R375	ROSS HEATER & MANUFACTURING
R325	ROBOT INDUSTRIES INC.	R376	ROSS OPERATING VALVE COMPANY
R326	ROYAL EQUIPMENT COMPANY	R377	ROSS - HEBBEN FOUNDRIES
R327	ROCKFORD MACHINE TOOL COMPANY	R378	ROTORK INC.
R328	R-P & C VALVE	R379	ROTH, ROYE COMPANY
R329	ROHN METAL FABRICATORS, INC.	R380	ROTTERDAM DOCKYARD COMPANY
R330	ROCHESTER ELECTRIC PRODUCTS	R381	ROTHENBUHLER ENGINEERING
R331	ROSE ELECTRONIC DISTRIBUTING	R382	ROTRON INDUSTRIES
R332	ROCHESTER GAS & ELECTRIC COMPANY	R383	ROTHSCHILD BOILER AND TANK WORKS, INC.
R333	RUSKA INSTRUMENT CORP.	R384	ROTH PUMP COMPANY
R334	ROLN CORP.	R385	ROVANG & ASSOCIATES
R335	ROCHESTER INSTRUMENT SYSTEMS, INC.	R386	ROTTERDAM NUCLEAR
R336	ROCHESTER NUT & BOLT COMPANY	R387	ROTTERDAM DRYDOCK INC.
R337	ROCHESTER MANUFACTURING COMPANY	R388	ROWLAND PRODUCTS, INC.
R338	ROCKWELL BRODIE	R389	ROWAN CONTROLLER
R339	ROCK ISLAND BRIDGE & IRON	R390	ROWE INDUSTRIES DIVISION
R340	ROCKWELL MANUFACTURING COMPANY	R391	ROSS EQUIPMENT COMPANY, INC
R341	ROCKWELL STANDARD CORP.	R392	ROWSON & COMPANY
R342	ROCKWELL ENGINEERING COMPANY	R393	ROTEC INDUSTRIES
R343	ROCKWOOD COMPANY	R394	ROPER INDUSTRIES INC. (OHIO)
R344	ROCKWELL-INTERNATIONAL	R395	ROYAL ELECTRIC MANUFACTURING
R345	RODNEY HUNT MACHINERY COMPANY	R396	RYSDON PRODUCTS COMPANY
R346	RODGERS, LEROY E.	R397	ROTO HAMMER COMPANY, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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R398	RUBATEX CORP.	S018	SAHUEL & MOORE COMPANY
R399	RUSSELL PIPE & FOUNDRY COMPANY	S019	SAHUELS, APEA & ASSOCIATES
R400	ROYAL INDUSTRIES, INC.	S020	SANDUSKY FOUNDRY & MACHINE COMPANY
R401	R T E CORP.	S021	SALISBURY VALVE COMPANY
R402	R - P & C BAR STOCK VALVE COMPANY	S022	SALEM ENGINEERING CORP.
R403	RUCKER COMPANY, THE	S023	SALEM LINE
R404	RTD INC.	S024	SALES, J. G. COMPANY, INC.
R405	RUMSEY PUMP COMPANY	S025	SANDVIK SPECIAL METALS CORP.
R406	RUEHELIN MANUFACTURING COMPANY	S026	ST. LOUIS FLEXICORE, INC.
R407	RUBEROID COMPANY	S027	SARGENT ELECTRIC COMPANY
R408	RUBY CONSTRUCTION COMPANY	S028	SANDVIK INC. - WIRE DIVISION
R409	RUCKER CONTROL SYSTEMS	S029	SANDVIK INC.
R410	RUNDEL ELECTRIC	S030	SANDVIK STEEL INC.
R411	RUSKIN MANUFACTURING COMPANY	S031	SAN LUIS BRICK, INC.
R412	RUST ENGINEERING	S032	SANTA FE TANK & HEATER COMPANY, INC.
R413	RUSS ELECTRIC	S033	SANTA FE TEXTILE COMPANY
R414	RUSTRAK	S034	SANI FILTRATION PRODUCTS INC.
R415	RYERSON, J. T. & SON	S035	SANGAMO ELECTRIC COMPANY
R416	RYERSON STEEL	S036	SANYMETAL PRODUCTS COMPANY
R417	RYRON INDUSTRIES	S037	SARACCO TANK MANUFACTURING COMPANY
R418	RYAN, INC.	S038	SARAN LINED PIPE COMPANY
R419	RYSGARD MASTERS COMPANY	S039	SARCO
R420	RYAN INDUSTRIES	S040	SARGENT & LUNDY
R421	RUSSELL AND STOLL	S041	SARGENT INDUSTRIES
R422	RUTHMAN MACHINERY COMPANY	S042	SARGENT LIMITED - AIRITE DIVISION
R423	RUSCO ELECTRONIC SYSTEMS	S043	SARGENT WELCH & COMPANY
R424	RUSSEL COIL COMPANY	S044	SARGENT, R. L. COMPANY
R425	RUGGLES-KLINGMAN COMPANY	S045	SARKES TAREIAN, INC.
R426	RUTTHAN CONSTRUCTION CO	S046	SCHATE-FEDERAL BEARING COMPANY INC.
R427	ROGERS MACHINERY CO INC	S047	SCHLUMBERGER LTD.
R428	ROME IRON MILLS INC	S048	SCHNEIDER - SIMPSON SHEET METAL, INC.
R429	ROYAL FUEL LIQUID ENERGIES INC	S049	SAYLOR BEALL MANUFACTURING COMPANY
R430	ROCHESTER PORTLAND CEMENT CORP	S050	SAUERMAN BROTHERS
R435	ROYCE EQUIP CO	S051	SAVANNA CONSTRUCTION COMPANY
S001	S&J MANUFACTURING COMPANY	S052	SCHAEVITE ENGINEERING
S002	S & S BUILDERS HARDWARE COMPANY, INC.	S053	SCHAEFER CORP.
S003	S & S ALLOYS	S054	SCAM INSTRUMENT CORP.
S004	S.B. ELECTRIC COMPANY	S055	SCHAUB, F. H. ENGINEERING
S005	S&C ELECTRIC	S056	SCHAUB MAGNETICS INC.
S006	S & K INSTRUMENTS DIVISION	S057	SCHAPPER EQUIPMENT COMPANY
S007	SACRAMENTO MUNICIPAL UTILITY DISTRICT	S058	SCHWITT STEEL, INC.
S008	SABINE STEEL & CONSTRUCTION	S059	SCHERER HARDWARE & SUPPLY
S009	SAFETY CROWN	S060	SCHAUER MANUFACTURING
S010	SAFETY SOCKET SCREW CORP.	S061	SCHREIBER & MCGHEE INC.
S011	SAGE ENGINEERING CORP.	S062	SCHREVEVILLE STEEL CORP.
S012	SAGE ENGINEERING & VALVE COMPANY	S063	SCHMIDT INSTRUMENT COMPANY
S013	SANDERS & THOMAS, INC.	S064	SCHNITZER ALLOY PRODUCTS, INC.
S014	SAINO, F. L. COMPANY	S065	SCHOTT OPTICAL GLASS INC.
S015	SANDERSON & PORTER, INC.	S066	SCHOONAKER, A. G.
S016	SANFORD FIRE APPARATUS CORP.	S067	SCHROEDER BROTHERS COMPANY
S017	SAND SPRINGS WORKS	S068	SCHUBERT HEAT TREATING COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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S069	SCHILL STEEL COMPANY	S120	SEILER, P. J. INC.
S070	SCHULER ENGINEERING COMPANY	S121	SECO MANUFACTURING INC.
S071	SCHNEIDER INC.	S122	SEELY, J. T. ASSOCIATES, INC.
S072	SCHIFF-HARDIN & WAITE	S123	SEMLER INDUSTRIES, INC.
S073	SCHUTTE, M. L.	S124	SKINNER VALVE DIVISION, HONEYWELL, INC.
S074	SCHOOL EQUIPMENT COMPANY, INC.	S125	SEIMANS
S075	SCHUTTE AND KOERING COMPANY	S126	SELF ORGANIZING SYSTEMS, INC.
S076	SCHWAB SAFE COMPANY, INC.	S127	SELWER INDUSTRIES
S077	SCHMIDT MANUFACTURING CORP.	S128	SENCO INC.
S078	SAUDER IND INC	S129	SENSALL
S079	SOR INC	S130	SENSOR DYNAMICS, INC.
S080	SCHWAGER-WOOD	S131	SENSITIVE RESEARCH
S081	STOLLEY & ORLEBEKE INC	S132	SENSOTEC INC.
S082	STAMLER, W.R. CORP	S133	SHAPE MAGNETRONICS, INC.
S093	SOUTHERN STRUCTURES INC	S134	SENTINEL ELECTRONICS CORP.
S084	SHELDON MACHINE CO INC	S135	SENTRY EQUIPMENT COMPANY
S085	SCHWAB/MANN	S136	SHEBOYGAN BUILDERS SUPPLY(SHEBOYGAN GLASS)
S086	SOPCO RECTORS, INC.	S137	SECOM, INC.
S087	ST. LOUIS VALVE AND FITTING COMPANY	S138	SMITHCO ENGINEERING, INC.
S088	SHARP CONTROLS COMPANY, INC.	S139	SPECTRUM INFARED, INC.
S089	SINCLAIR RADIO LABORATORIES, INC.	S140	SERFILCO
S090	SCHWABKOPF DEVELOPMENT CORP.	S141	SERVICE TOOL COMPANY
S091	SHANNON AND WILSON, INC.	S142	SERVICE SURVEYING & ENGINEERING COMPANY
S092	SMITH-KOCH, INC.	S143	SETHCO
S093	SCHWITZER	S144	SEXON PUMP
S094	SCULLIN STEEL DIVISION	S145	SHANSTROM NUCLEAR ASSOCIATES
S095	SCI CHEMICAL-FREEZ DIVISION	S146	SHAND & JURS COMPANY
S096	SEARL INC.	S147	SHARPLESS STOKES DIVISION, PENNWALT
S097	SCIENTIFIC COLUMBUS	S148	SHAPPERT ENGINEERING COMPANY
S098	SCIENTIFIC PLASTICS INC.	S149	SHAN-ROD CORP.
S099	SCIENTIFIC INDUSTRIAL SALES COMPANY	S150	SHARPSVILLE STEEL FABRICATORS
S100	SCIENCE ACCESSORIES CORP.	S151	SHARPLES CORP.
S101	SCOTT MONITORS INC.	S152	SHAW, BENJAMIN F. COMPANY
S102	SCIENCE APPLICATIONS, INC.	S153	SHALER, JOHN T. COMPANY, INC.
S103	SCOT COMPANY	S154	SHELCO STEEL WORKS INC.
S104	SCOTT, WRAY M	S155	SHAW-BOX CRANE & HOIST
S105	SCOVILL MANUFACTURING COMPANY	S156	SHAWMUT COMPANY
S106	SCOTT INDUSTRIAL EQUIPMENT COMPANY	S157	SHEPPER
S107	SCREW CONVEYOR CORP.	S158	SIMPLEX INC.
S108	SCULIY SIGNAL COMPANY	S159	SHELDONS ENGINEERING LIMITED
S109	SEARS, ROEBUCK & COMPANY	S160	SHENANGO COMPANY, THE
S110	SEALOL INC.	S161	SKINNER PRECISION INDUSTRIES (SEE S124)
S111	SEALY & JONES	S162	SIERRA RESEARCH CORP.
S112	SEARLE RADIOGRAPHICS INC.	S163	SIMPSON ELECTRIC COMPANY
S113	SAMPSON COMPANY	S164	SCHOMANN INC.
S114	SECURITY COMPANY, INC.	S165	SHEPARD-NILES CRANEHOIST
S115	SEATON WILSON INC.	S166	SMITH ELECTRIC COMPANY
S116	SEBA LABORATORIES, INC.	S167	SHERARD, JAMES L. COMPANY
S117	SECHERON WORKS COMPANY, LTD.	S168	SMITH, R. L. COMPANY
S118	SECURITY INSERT COMPANY	S169	SHEPLER'S EQUIPMENT COMPANY, INC.
S119	SEEBOLD, A. J. COMPANY	S170	SHEPHERD, J. L. AND ASSOCIATES

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CODE	VENDOR NAME	CODE	VENDOR NAME
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S171	SHIVE-BATTERY & ASSOCIATES	S222	SMITH VALVE CORP.
S172	SHICK TUBE - VEYOR CORP.	S223	SK INSTRUMENT COMPANY
S173	SHORELINE SUPPLY COMPANY	S224	SKRO-BEE INC.
S174	SHILSTONE ENGINEERING TESTING LABORATORIES	S225	SMITH, ELWIN G.
S175	SHIELDS RUBBER COMPANY	S226	SIMPLEX SYSTEM CONTROLS INC.
S176	SHINMEIWA IND. COMPANY, LTD.	S227	SMITH INSTRUMENT COMPANY
S177	SHINN ENGINEERING	S228	SONIC INSTRUMENTS INC.
S178	SHINNER PRECISION, INC.	S229	SMITH, HYER F. COMPANY
S179	SHIPMAN'S FIRE EXTINGUISHER COMPANY	S230	SMITH, J. R. MANUFACTURING COMPANY
S180	SHM NUCLEAR CORP.	S231	SMITH INDUSTRIES
S181	SIER BATH GEAR & PUMP	S232	SMITH, R. G. COMPANY, INC.
S182	SIERRACIN/HARRISON	S233	SMITHER, JACK M. & COMPANY
S183	SICO, INC.	S234	SMITH AND LOVELESS
S184	SHUNT	S235	SMOOT ENGINEERING COMPANY
S185	SIGMA INSTRUMENTS, INC.	S236	SNAP-ON TOOLS, INC.
S186	SIXVERT ELECTRIC COMPANY	S237	SNOOK, J. W. COMPANY
S187	SHUHART, DON COMPANY	S238	SOIL TESTING SERVICE, INC.
S188	SIEMENS-ALLIS	S239	SOILTEST, INC. - CHICAGO
S189	SIRAPLEX CHEMICAL CORP.	S240	SOLA BASIC INDUSTRIES
S190	SIGNAL ENGINEERING MANUFACTURING	S241	SOLA FLEX (DIV PITTSBURG-DES MOINES STEEL)
S191	SIERRA CRANE & HOIST COMPANY	S242	SOLLITT CONSTRUCTION COMPANY
S192	SKF INDUSTRIES, INC.	S243	SONNEBORN BUILDING PRODUCTS, INC.
S193	SIMPSON, RALPH H. COMPANY	S244	SONNEBORN CHEMICAL & REFINING CORP.
S194	SAMPSON & ASSOCIATES	S245	SOLA ELECTRIC COMPANY
S195	SIGNAL HILL ELECTRIC, INC.	S246	SOLAR (DIV INTERNATIONAL HARVESTER)
S196	SINIAVER, A. & COMPANY ENGINEERS, INC.	S247	SULLAIR CORP.
S197	SINI PUMPS	S248	SOLAR SUPPLY COMPANY
S198	SILICAIR DRYERS LTD.	S249	SOLAR AIRCRAFT COMPANY
S199	SIKA CHEMICAL CORP.	S250	SOLID STATE CONTROLS, INC.
S200	SIMPLEX VALVE & METER	S251	SOLAR LIGHTING CORP.
S201	SILPROOF-SILICONE	S252	SONICBAR (DIV OF RYSDOM PRODUCTS COMPANY)
S202	SIMPLEX WIRE AND CABLE COMPANY	S253	SOLVENT SERVICE INC.
S203	SIMPSON COMPANY	S254	SOLOMAN MANUFACTURING COMPANY
S204	SIMMONDS PRECISION	S255	SOLID STATE RADIATIONS, INC.
S205	SINGER COMPANY, THE	S256	SOWECO SERVICES, INC.
S206	SINGER LAVRE NORTHERN	S257	SORENSEN
S207	SIMMONS, J. L. COMPANY, INC.	S258	SORGEL ELECTRIC COMPANY
S208	SINGER, LAYNE & BOWLER, INC.	S259	SOUTHCO
S209	SKF BEARINGS	S260	SOSTMAN, H. E. COMPANY
S210	SINTERCAST	S261	SOUTH CAROLINA ELECTRIC & GAS COMPANY
S211	SKIDMORE-WILHELM COMPANY, INC.	S262	SOUTHERN CALIFORNIA EDISON COMPANY
S212	SKINNER UNIFLOW VALVES	S263	SOUTHERN ALLOY EQUIPMENT INC.
S213	SKOLNIK DRUM CORPORATION	S264	SOUTHERN BOILER AND TANK WORKS, INC.
S214	SHEDLY PAINTING SERVICE	S265	SOUTHERN ENGINEERING - PUMP COMPANY
S215	SLY, W. W. MANUFACTURING	S266	SOUTHERN BOLT & FASTNER CORP.
S216	SLURRY, L. P. PUMPS	S267	SOUTHERN IMPERIAL COATING CORP.
S217	SMITH, A. O.	S268	SOUTHERN INSPECTION SERVICE, INC
S218	SMITH & CLARK	S269	SOUTHERN SERVICES INC.
S219	SLOAN VALVE COMPANY	S270	SOUTHERN NUCLEAR ENGINEERING, INC.
S220	SMITH-MOON STEEL COMPANY	S271	SOUTHWEST METAL FABRICATORS INC.
S221	SMACNA	S272	SOUTHWEST STAINLESS INC.

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S273	SOUTHERN PUMP & TANK COMPANY	S324	SLINE INDUSTRIAL PAINTERS INC.
S274	SOUTHERN INDUSTRIAL STEEL COMPANY	S325	SPRAY ENGINEERING COMPANY
S275	SOUTHERN STATES EQUIPMENT	S326	SMEE'S PLUMBING
S276	SOUTHERN STEEL PRODUCTS COMPANY	S327	SOUTHWESTERN MATERIALS & SUPPLY INC.
S277	SOUTHERN STATES STEEL COMPANY	S328	SNITEER, LOUIS T. CO INC (INGERSOL PROD)
S278	SOUTHERN OHIO FABRICATORS, INC.	S329	SPANCRETE INDUSTRIES INC.
S279	SOUTHWEST ORNAMENTAL IRON COMPANY	S330	SPRAYING SYSTEMS COMPANY
S280	SOUTHWEST FABRICATING & WELDING CO., INC.	S331	STACEY MANUFACTURING COMPANY, INC.
S281	SOUTHWEST FASTNERS SUPPLY COMPANY	S332	STEELITE INC.
S282	SOUTHWESTERN RUBBER & PACKING COMPANY	S333	STANDARD POWER, INC.
S283	SOUTHWESTERN ELECTRIC POWER COMPANY	S334	STANDARD BOILER & TANK COMPANY
S284	SOUTHWESTERN GAUGE SALES INC.	S335	SPRINGFIELD BOILER
S285	SOUTHWEST RESEARCH INSTITUTE	S336	STANDARD EQUIPMENT & SUPPLY CORP.
S286	SOUTHWESTERN ELECTRIC CONTROLS	S337	STAR MANUFACTURING COMPANY
S287	SOUTHEAST TECHNICAL CODING INC.	S338	STANLEY VEMCO (DIV OF STANLEY WORKS)
S288	SOUTHWEST GALVENIING	S339	STANDARD ELECTRO TIME COMPANY
S289	SPANCRETE OF ILLINOIS INC.	S340	SPRINGFIELD FOUNDRY INC.
S290	SOUTHWESTERN ENGINEERING COMPANY	S341	STAINLESS SPECIALTIES INC.
S291	SPANG INDUSTRIES INC.	S342	SPRINKMAN SONS CORP.
S292	SOUTHWESTERN LABORATORIES	S343	S.Q. CONSTRUCTION
S293	SPARTON SOUTHWEST INC.	S344	SPUR & SIDING CONSTRUCTORS COMPANY, INC.
S294	SOUTH SIDE IRON WORKS INC.	S345	SQUARE D COMPANY
S295	SPECIAL EQUIPMENT CORP.	S346	STANDARD TOOL & MACHINE COMPANY
S296	SPECIAL ARCHITECTURAL METAL COMPANY	S347	S-P MANUFACTURING COMPANY, THE
S297	SPARROW, C. E. COMPANY INC.	S348	S-T-M SUPPLY COMPANY
S298	SPACEMEN LIFESAVER	S349	STANECO CORP.
S299	SPECTRAL DYNAMICS CORP. OF SAN DIEGO	S350	ST. JOHN X-RAY LABORATORY
S300	SPECTROMAGNETIC INDUSTRIES	S351	STANDARD HEADROOM
S301	SPECIALTY CONNECTORS	S352	ST. CHARLES MANUFACTURING COMPANY
S302	SPEED-NUT	S353	STANSPEC CORP.
S303	SPEAR, JULIAN COMANY	S354	STANDARD ELECTRICAL TOOL COMPANY
S304	SPEAKMAN COMPANY	S355	STACKPOLE CARBON COMPANY
S305	SPEEDWAY MACHINE & TOOL COMPANY	S356	STAINLESS DISTRIBUTERS INC.
S306	SPEED PERFORMANCE MANUFACTURING	S357	STAINLESS DISTRIBUTERS & SUPPLY
S307	SPECTRO CHEMICAL RESEARCH LABORATORY, INC.	S358	STANDARD PIPE AND SUPPLY COMPANY, INC.
S308	SOUTHWEST ENGINEERING SERVICES INC.	S359	STAIN-STEEL INC.
S309	SOUTHERN INSTRUMENT INC.	S360	STAHL RIDER, INC.
S310	SPELLMAN HIGH VOLTAGE ELECTRONICS CORP.	S361	STANCOR
S311	SPENA & HOME CONSTRUCTION COMPANY	S362	STAINLESS ALLOY METALS
S312	SPENCER TURBINE COMPANY	S363	STAINLESS PIPE & FITTINGS, INC.
S313	SPENCER, WHITE & PRENTIS	S364	STAINLESS PRODUCTS
S314	SPENCE ENGINEERING COMPANY, INC	S365	STAINLESS EQUIPMENT COMPANY
S315	SPERTI PARADAY, INC.	S366	STANDARD FITTING COMPANY
S316	SPHERE INDUSTRIES INC.	S367	STANDARD SWITCH
S317	SPIN CRAFT	S368	STANDARD PRESSED STEEL COMPANY
S318	SOUTHERN STATES INC.	S369	STANCO BOLT COMPANY
S319	SIERRA SCIENTIFIC CORP.	S370	STANLEY CONSULTANTS, INC.
S320	SPOONER & HERRILL COMPANY	S371	STALLINGS & LANLEY
S321	SPIRO, U. S. A. INC.	S372	STANRAY CORP., INDUSTRIAL SERVICE DIV.
S322	SOUTHERN TRANSFORMERS COMPANY INC.	S373	STAPLES & PFEIFFER
S323	SPANG & COMPANY	S374	STARRETT, L. S.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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S375	STATES COMPANY, THE	S426	STAUFFER CHEMICALS
S376	STAR HYDRAULICS	S427	STRAHMAN
S377	STAPLEX COMPANY	S428	STRIPEL ASSOCIATES
S378	STANDARD DRY WALL PRODUCTS, INC.	S429	STREETER AMET (DIV HANGOOD CORP.)
S379	STATIC PRODUCTS	S430	STRAINSERT COMPANY
S380	STATHAM INSTRUMENTS, INC.	S431	STRANE
S381	STAUFF CORP.	S432	STRATFLOW PRODUCTS, INC.
S382	STATIC-O-RING	S433	STRESS STEEL CORP.
S383	STD TOOL AND DIE	S434	STROUD SALES COMPANY
S384	STAUBER, E. COMPANY	S435	STRONG-CARLISLE-HAMMOND
S385	STEARNS MAGNETIC MANUFACTURING COMPANY	S436	STRUCTURAL SALES, INC.
S386	STARME COMPANY	S437	STRUCTURAL STEEL COMPANY
S387	STATE STOVE & MANUFACTURING COMPANY	S438	STRUCTURAL METALS INC.
S388	STEELE, J. C. & SONS, INC.	S439	STRUCTURAL SYSTEM, INC.
S389	STEEL DISTRIBUTION INC.	S440	STRUTHERS DUNN, INC.
S390	STEARNS-ROGER COPR.	S441	STRUCTURAL ALLIIND COMPANY
S391	STEELCRAFT COMPANY	S442	STRONG MANUFACTURING COMPANY
S392	STEARNS-ROGER FABRICATORS INC.	S443	STRUTHERS NUCLEAR & PROCESS COMPANY
S393	STEEL ALLOY FABRICATORS	S444	STROMBERG-CARLSON COMPANY
S394	STEEL FABRICATION DIVISON	S445	STRUTHERS WELLS CORP.
S395	STEEL FABRICATING COMPANY	S446	STUSSER ELECTRIC
S396	STEEL FORM, INC.	S447	STRYCO MANUFACTURING COMPANY
S397	STEEL FORGINGS INC.	S448	STUPP BROTHERS BRIDGE & IRON COMPANY
S398	STEEL STRUCTURES PAINTING COUNCIL	S449	SULFRIAN CRYOGENICS INC.
S399	STEEL SERVICE COMPANY, INC.	S450	SULEER BROTHERS INC.
S400	STEFCO STEEL COMPANY	S451	SUBGRADE CONSTRUCTION CORP.
S401	STELLAR MANUFACTURING COMPANY	S452	SULEER - KSB
S402	STELLITE DIVISION	S453	SUN SHIPBUILDING & DRYDOCK COMPANY
S403	STEPHENS-ADAMSON MANUFACTURING COMPANY	S454	SIMITOMO METAL INDUSTRIES
S404	STERLING ELECTRIC MOTORS, INC.	S455	SUNDH ELECTRIC COMPANY
S405	STERLING TOOL	S456	SULLIVAN MACHINERY CORP.
S406	STEVENS INSTRUMENT	S457	SUGARS CONSTRUCTION COMPANY
S407	STEWART & STEVENSON SERVICES, INC.	S458	SULLIVAN MACHINERY COMPANY
S408	STEWART MECHANICAL ENTERPRISE INC.	S459	STONABER, INC.
S409	STA-RITE INDUSTRIES INC.	S460	SUNDSTRAND CORP.
S410	STOCK EQUIPMENT COMPANY	S461	STERLING ELECTRONICS
S411	STOCKWELL LABORATORY	S462	STANDARD IRON & WIRE WORKS
S412	STOCKTON STEEL	S463	STONHARD INC.
S413	STOCKHAM VALVE COMPANY	S464	SUNROCK CORP.
S414	STOKVIS MULTITON CORP.	S465	SUNTAC NUCLEAR CORP.
S415	STOLLER, S. M. CORP.	S466	STEWART ENGINEERING & EQUIPMENT CO. INC.
S416	STEVENSON GEO.	S467	STATE ELECTRIC SUPPLY
S417	STOODY COMPANY	S468	STREICH BROTHERS ENGINEERING
S418	STEAM SPECIALTIES COMPANY	S469	SPORLAN VALVE COMPANY
S419	STONE ENGINEERING ASSOCIATES	S470	SUPERINTENDENCE COMPANY, INC.
S420	STONE & WEBSTER ENGINEERING CORP.	S471	SUPER STEUT INC.
S421	STONCS	S472	SUPERIOR AIR HANDLING COMPANY
S422	STERN-WILLIAMS COMPANY, INC.	S473	SUPERIOR APPLIANCE COMPANY
S423	STORRY ELECTRIC	S474	SUPERIOR CONSTRUCTION
S424	STOVER STEEL TANK MANUFACTURING COMPANY	S475	SUPERIOR ELECTRICAL COMPANY
S425	STOW MANUFACTURING COMPANY	S476	STEEL DISTRIBUTORS, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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S477	SUPERIOR HYDRAULICS DIVISION	S528	SUPERPRESSURE INC
S478	SUPERIOR ENGINEERING CORP.	S529	SYSTEMS ENGINEERING & MANUFACTURING CO.
S479	S-R PRODUCTS, INC.	S530	STUART, IRBY C. COMPANY
S480	SUPERIOR SWITCHBOARD & DEVICES	S531	STOCKTON, RALPH VALVE PRODUCTS INC
S481	STANDARD CAR TRUCK COMPANY	S532	STONE CONVEYOR (MONBOYE IND INC)
S482	STICHT, HERMAN H. COMPANY, INC.	S533	STERLING INC
S483	SHORROCK, INC.	S534	STEWART SYSTEMS
S484	SUPERIOR WIRE & METAL PRODUCTS, INC.	S535	SALMON MOTOR REPAIR SVC INC
S485	SUPERIOR TUBE	S536	SCHUBERT ENVIRONMENTAL EQUIP INC
S486	SURF-A-LITE	S537	SUPERIOR INTERLOCK CORP
S487	SUPERIOR VALVE COMPANY	S538	SILICON GENERAL INC
S488	SUPREME-AIRX MANUFACTURING COMPANY	S539	SCRUGGS, TED CO INC (ALLIGERISEARS)
S489	SUPERIOR WELDING COMPANY	S540	SCHELLING STEEL COMPANY INC
S490	SUSQUEHANNA-WESTERN, INC.	S541	SONOCO PRODUCTS CO
S491	SURIN-WESTERN LTD.	S542	SCOTT AVIATION CORP
S492	SUTORBILT CORP.	S543	SHAMKAN, W.S. & CO
S493	SWANN ICE COMPANY INC.	S544	STANDARD ENVIRONMENTAL SYSTEMS INC
S494	SWANSON CONTRACTING COMPANY, INC.	S545	SIERRA CONTROLS SYSTEMS INC
S495	SW FABRICATING & WELDING COMPANY	S546	SNITZER SUPPLY CO
S496	SWAN MANUFACTURING	S547	STONEHAM EQUIP CO
S497	SWAN ENGINEERING AND MACHINERY COMPANY	S548	SAFE AIR INC
S498	SWANSON ENGINEERING	S549	SCHLAGE ELECTRONICS INC
S499	SWANSON-GENTLEMAN, INC.	S550	SIGMAMOTOP, INC.
S500	SWARTWOUT COMPANY	S551	STANDARD TRANSFORMER COMPANY
S501	SWATEK, E. P. JR. INC.	S552	SQUIRE-COGSWELL CO
S502	STORED ENERGY SYSTEMS	S553	STANADYNE/HOEN DIV
S503	SOUTHERN CALIBRATION & SERVICES	S554	SERVICE WELDING & MACHINE CO
S504	STALLINGS & COMPANY, INC.	S555	SPECIALTY VALVE & CONTROLS
S505	SWECCO INC.	S556	SWENDENMAN CONTROLS CORP
S506	SWEENEY, B. K. COMPANY	S557	STAAB BATTERY MFG CO
S507	SWEELAND CORP.	S558	STOCKWELL RUBBER CO
S508	SWENDENMAN	S559	SENECA ENGG CO
S509	STEWART MACHINE COMPANY	S560	SHARON TUBE CO
S510	SWENSON (DIV OF WHITING CORP.)	S561	STEWART-WARNER CORP
S511	SOUTH CAROLINA STEEL CORP.	S562	SHERWIN-WILLIAMS CO
S512	STATIC POWER (DELTA ELECTRONIC CNTRL CORP)	S563	STOVE PLUMBERS SUPPLIES CO INC
S513	SWEETLAND CORP.	S564	STROBIC AIR CORP
S514	SPROUT-WALDRON DIV. (KOPFER COMPANY INC.)	S565	SPRAGUE ELEC CO
S515	SWEPCO TUBE CORP.	S566	SAUK STEEL CO INC
S516	STIPPICH, INC.	S567	S&C SUP CO
S517	SWISS HAMMER	S568	SANTA MARIA TOOL INC
S518	SWITCHCRAFT	S569	SUNNYVALE PIPING CO
S519	SYNCHRO START PRODUCTS	S570	SAN DIEGO FIRE EQUIP CO
S520	SYNTRON COMPANY	S571	SAN JOSE STEEL CO INC
S521	SYLVANIA-CLARK CONTROL	S572	SHORT SCRAP IRON & METAL INC
S522	SYGNETRON PROTECTION SYSTEMS INC.	S573	SOLTTEC CORP
S523	SYRACUSE ELECTRONICS	S574	SHERMAN ENGG CO
S524	SYSTEMS CONTROL CORP.	S575	SCHREIBER MFG CO INC
S525	SYSTEMS ENGINEERING LABORATORIES, INC.	S576	SMOOT CO, THE
S526	SYSTRON-DONNER CORP.	S577	SWISS PRECISION INSTRUMENTS INC
S527	STANDARD REFRIGERATION	S578	SPERRY VICKERS (SPERRY RAND CORP)

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CODE	VENDOR NAME	CODE	VENDOR NAME
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5575	SHOOK & FLETCHER INSULATION CO	T015	TAGLIABUE MANUFACTURING
5580	STANLEY VIDMAR INC	T016	TAIT, INC.
5581	SONY CORP OF AMERICA	T017	TANCO INC.
5582	SABER ENTERPRISES INC	T018	TITEFLEX INDUSTRIAL PRODUCTS GROUP
5583	SIZE CONTROL CO	T019	TAPECOAT
5584	SUPPLY DISTRIBUTION	T020	TARGET ROCK CORP.
5585	SAMPLE-HEBTROL INC	T021	TATE, JOHN INC.
5586	SABRE CONTROLS	T023	TASKER INDUSTRIES
5587	SECURITY LOCK SHOP	T024	TAT ENGINEERING COMPANY
5588	SHERWIN INC	T025	TATE TEMCO, INC.
5589	STRUCTURAL DYNAMICS RESEARCH CORP	T026	TATOR, KENNETH ASSOCIATES
5590	STATE INDUSTRIES INC	T027	TANOSIG ASSOCIATE, INC.
5591	S4P RIGGING CORP	T028	TAULMAN COMPANY
5592	SYRACUSE CASTINGS SALES CORP	T029	TAUSSIG INC.
5593	SULLIVAN SALES CORP	T030	TAYLOR ENGINEERING CORP.
5594	SEMTECH CORP	T035	TAYLOR FORGE DIVISION
5595	STELLAR SYSTEMS INC	T036	TAYLOR-KUSCKELS & ASSOCIATES INC.
5596	STACO ENERGY PRODUCTS CO	T037	TAYLOR INDICATOR
5597	SPECTRACOM CORP	T038	TAYLOR INDUSTRIAL SUPPLY
5598	SHRED-FAX CORP	T039	TAYLOR INSTRUMENT COMPANIES
5599	SPECIAL CHEMICALS CORP	T040	TAYLOR INSTRUMENT PROCESS CONTROL DIVISION
5600	SCHRADER BELLOWES	T041	TECHNICAL INDUSTRIES INC
5601	SERVICE PHYSICAL TESTERS	T042	TAYLOR, R. H. COMPANY
5602	SULLIVAN BOLT CO INC	T043	TAYLOR SYBRON CORP.
5603	SHUGART ASSOC	T045	TAYLORED INDUSTRIES
5604	SPITFIRE TOOL & MACHINE CO	T046	TECTROM ENGINEERING
5605	SUBURBAN TOOL INC	T047	TECHNICAL EDUCATION RESEARCH CENTER
5606	SHALLTRONIX CORP	T048	TECO PRODS INC
5607	STETSON-DOLE ARCHTS & ENGRS	T050	TECH ELECTRIC PANEL CORP.
5608	SUPER K INDUSTRIES INC	T055	TECH ELECTRIC
5609	STRUCTURAL ASSESSORIES INC	T057	TECH-SIL, INC.
5610	SERVICE ART CO	T058	TECH-SONICS
5611	STAPCO INC	T059	TECH TUBE CORP.
5612	SUESKE BRASS & COPPER CO	T060	TECHNIC INC.
5613	SERVICE INDUSTRIAL SUPPLY INC	T061	TECH WELD CORP (METAL FAB DIV)
5614	SPECTROL ELECTRONICS CORP	T062	TECHNICAL ENVIRONMENTAL ENTERPRISES INC
5615	SERVICE TECTONICS INSTRUMENTS	T063	TELEDYNE THERMATIC
T001	TABER PUMP COMPANY, INC.	T065	TECHNICAL ASSOCIATES
T002	TIS BRONZE WORKS	T066	TECHNICAL HEATERS INC
T003	TABER PP., COMPANY	T067	TECHNICAL DISTRIBUTORS, INC.
T004	TSP MANUFACTURING COMPANY	T068	TECHNOLOGY FOR ENERGY CORP.
T005	T X T	T069	TENOR CO INC
T006	T.S.Z. SUPPLY INC.	T070	TECHNICAL OPERATIONS, INC.
T007	T. & F. CONSTRUCTION COMPANY OF INDIANA	T071	TEKNEKRON COMPANY
T008	T T ELECTRONICS INC.	T072	TECHREP
T009	TACO INC.	T073	TECHNICAL REPRESENTATION, INC.
T010	TAGGART, ROBERT, INC.	T074	TECHNO CORP.
T011	TBI (THOMAS-BARDEN INSTRUMENTS)	T075	TECHNICAL PRODUCTS, INC.
T012	TRI-STATE TUBULAR RIVET CORP	T076	TECHNOLOGY INC.
T013	TPI METRERIALS INT'L	T077	TECHNI-FAB., INC.
T014	TECHNICAL SYSTEMS CORP	T078	TECHNIPOWER INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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T079	TEKTRO INC.	T138	TEXAS STEEL COMPANY
T080	TEKTRONIX, INC.	T139	TERRA TECHNOLOGY CORP.
T081	TELS ELECTRIC	T140	TENNESSEE NUCLEAR SPECIALTIES, INC.
T082	TELEDYNE COLOMBIA - SUMMERILL	T141	TEXAS UTILITIES INC.
T083	TELEDYNE CORP.	T142	TENNESSEE VALLEY AUTHORITY
T084	TELEDYNE ENGINEERING SERVICES	T143	TEXAS MARINE INDUSTRIAL SUPPLY COMPANY
T085	TELEDYNE MATERIALS RESEARCH	T144	TEXAS UTILITIES GENERATING COMPANY
T086	TELEDYNE ANALYTICAL INSTRUMENTS	T145	TENNEY ENGINEERING, INC.
T087	TELEDCRITTENDEN	T146	TERRA CORPORATION
T089	TELEDYNE BIG BEAM	T147	TERRY STEAM TURBINE COMPANY
T090	TELEDYNE-BROWN ENGINEERING	T148	TERICE COMPANY
T095	TELEDYNE-FARRIS ENGINEERING	T149	TEXAS TRANSFORMER
T096	TEMPRESKO INC	T150	TESHIBA MANUFACTURING
T100	TELEDYNE-GEOTECH	T151	TEXAS A & M UNIVERSITY
T101	TENNESSEE MILL & MINE SUPPLY CO	T152	TEXAS BOLT COMPANY
T102	TEMP INC	T153	TEXAS ELECTRIC STEEL CASTING COMPANY
T103	TELEDYNE REPUBLIC MFG	T154	TEXAS FORGE
T104	TELEDYNE READCO	T155	TEXAS INSTRUMENTS INC.
T105	TELEDYNE-ISOTOPES	T156	TEXAS FLANGE AND MANUFACTURING
T106	TEMP-PRO INC	T157	TEXAS METAL WORKS, INC.
T107	TELEDYNE MCKAY MANUFACTURING COMPANY	T158	TEXAS INDUSTRIES, INC.
T108	TELL STEEL, INC.	T159	THATCHER ENGINEERING CORP.
T109	TELEDYNE PHILBRUCK NEXUS	T160	TEXAS PIPE AND BENDING, INC.
T110	TELEDYNE-WAH CHANG ALBANY	T161	TGM DETECTORS, INC.
T111	TELEDYNE-SPRAGUE ENGINEERING COMPANY	T162	THERMAN MANUFACTURING COMPANY
T112	TENCO HYDRO/AEROSCIENCES, INC.	T163	THAMES PERHACRETE
T113	TEL TRU MANUFACTURING COMPANY	T164	THAMES VALLEY STEEL CORP.
T114	TELETYPE	T165	THERMO ELECTRIC COMPANY, INC.
T115	TELEFLEX, INC.	T166	THERMALINK CORP.
T116	TELMAR	T167	TEXAS DEPARTMENT OF LABOR & STANDARDS
T117	TEMP FLEX DIV. ASSOCIATED PIPING	T168	THERMO-COUPLE
T118	TEMPMASTER CORP.	T169	THERMO-COUPLE PRODUCTS COMPANY
T119	TEMPLAR, INC.	T170	THERMO ELECTRON CORP.
T120	TEMPO INSTRUMENT, INC.	T171	THERMO DYNAMICS
T121	TERMINAL DATA CORP.	T172	THERMAL INSTRUMENTS COMPANY
T122	TESCH-YESCH & ASSOCIATES	T173	THERMOLYNE COMPANY
T123	TEXAS NUCLEAR DIVISION	T174	THERMO EXCHANGE, INC.
T124	TERRE HAUTE INDUSTRIES	T175	THERMO MAGNETICS, INC.
T125	TEMTX TEMPERATURE SYSTEMS & COMPONENTS CO	T176	TEX-STEEL CORP.
T126	TEXAS SCREW PRODUCTS	T177	THAYER SCALE, HYER INDUSTRIES INC.
T127	TEXAS PIPE & SUPPLY COMPANY	T178	TESTING ENGINEERS, INC.
T128	TEXAS SCREW COMPANY	T179	TETRA TECH, INC.
T129	TERRY CORP.	T180	THERMOMATICS, INC.
T130	TENNECOMP SYSTEMS, INC.	T181	THERMOSET SYSTEMS, INC.
T131	TEXAS TANK, INC.	T182	THORPE INSULATION COMPANY
T132	TEXAS VALVE & FITTING COMPANY	T183	THOMPSON, E. A. COMPANY, INC.
T133	TEXAS TECHNICAL PRODUCTS COMPANY	T184	THERMAX INC
T134	TEXAS MILL SUPPLY COMPANY	T185	THERMON MANUFACTURING
T135	TENNELEC, INC.	T186	TIF INSTRUMENTS
T136	TEXAS DEPARTMENT OF AGRICULTURE	T187	THOMAS AND MULLER COMPANY, INC.
T137	TERAC CONTROLS INC.	T188	THOMAS, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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T189	THOMAS ASSOCIATES	T240	TOKYO SHIBAURA ELECTRIC CO. LTD.(TOSHIBA)
T190	THERMOMETICS CORP.	T241	TOLEDO SCALE COMPANY
T191	THERM INC	T242	TOLEDO EDISON COMPANY
T192	THERMO VOLT	T243	TOLL ASSOCIATES
T193	THERMXCHANGER	T244	TOMKINS-JOHNSON
T194	THERMOWELLS, INC.	T245	TOOLING SPECIALISTS, INC.
T195	THETA INSTRUMENT CORP.	T246	TOSHIBA INTERNATIONAL CORP.
T196	THOMAS COMPANY	T247	TOUSLEY-IBER COMPANY
T197	THOMAS A. EDISON INDUSTRIES	T248	TOPAE ELECTRONICS
T198	THOMAS AND BETTS ENGINEERED	T249	TORIT CORP.
T199	THOMAS PUMP COMPANY INC.	T250	TORNGREN COMPANY
T200	THOMPSON ELECTRIC COMPANY	T251	TORRINGTON BRG. COMPANY
T201	THOMPSON LIGHTING PROTECTION	T252	TORRINGTON
T202	THOMPSON PIPE & STEEL COMPANY	T253	TORWICO ELECTRONICS INC.
T203	THOMPSON TANK & MANUFACTURING COMPANY	T254	TOTAL KON-GES. FOERSTNER AND COMPANY
T204	THORNTON INDUSTRIAL SUPPLY COMPANY, INC.	T255	TOWER IRON WORKS, INC.
T205	THOMSON, C. W. COMPANY	T256	TOWER-OLSCHAN COMPANY
T206	THORPE PRODUCTS	T257	TOYO KEIKI KOGYO
T207	THOMPSON AND JOHNSON	T258	THOMAS FLEXIBLE COUPLING COMPANY
T208	THORSTENBERG MATERIALS COMPANY, INC.	T259	TRANSISTOR DEVICES INC.
T209	THRALL COR COMPANY	T260	TRACER LAB
T210	TIGERMAN ENGINEERING	T261	TOURTELOT, FRED I. COMPANY
T211	TINKER & RASOR COMPANY	T262	TRACOR NORTHERN, INC.
T212	TIME NATIONAL LABORATORIES	T263	TRIANGLE SALES, INC.
T213	TIDEWATER EQUIPMENT CORP.	T264	TRADE-WIND
T214	TIME TROL	T265	TRANE COMPANY
T215	TIMES WIRE AND CABLE	T266	TRIPLETT CORPORATION
T216	TINNET METALS CORP.	T267	TRANSBAY ELECTRONICS, INC.
T217	TINKIN ROLLER BEARING	T268	TRACOR, INC.
T218	TITAN	T269	TRANSWALL CORP.
T219	TIMET COMPANY	T270	TRANS-WEIGH COMPANY
T220	TITANIUM METAL CORPORATION OF AMERICA	T271	TOWNSEND & BOTTUM, INC.
T221	TITAN ORNAMENTAL IRON WORKS	T272	TOTE SYSTEMS DIV (HOOVER UNVRSL MATERIALS)
T222	TUSCO FAB INC	T273	TRIPP, DAVID J. ASSOC
T223	THOMPSON MFG CO	T274	TRANSAMERICA DELAVAL
T224	THOMPSON-WILLET CORP	T275	TRANSAMERICAN INSTRUMENT CORP.
T225	TITUS MANUFACTURING COMPANY	T276	TUTCO
T226	TLT BABCOCK, INC.	T277	TROMBETTA CORP
T227	TOURTELOT, FRED L. COMPANY	T278	TYLER PIPE IND INC
T228	TNENEC COMPANY, INC.	T279	THREE-D INSTRUMENTS INC
T229	TOA VALVE COMPANY, INC.	T280	TRANSCO INC.
T230	TOBE DEUTSCHMANN COMPANY	T281	TUBULAR PRODUCTS, INC.
T231	TOROID CORP	T282	TRW CINCH CONNECTORS DIVISION
T232	TOCH BROTHERS, INC.	T283	TRANSENERGY CORP.
T233	TOWILL, INC.	T284	TRETOLITE DIVISION
T234	TOLEDO TANK COMPANY	T285	TRANSFER SYSTEMS INC.
T235	TODD SHIPYARDS CORP.	T286	TRAYER ENGINEERING CORP.
T236	TORK, INC.	T287	TRANSMATION, INC.
T237	TOMAR ELECTRONICS, INCL	T288	TRI-METALS FABRICATION COMPANY
T238	TOMCO EQUIPMENT COMPANY	T289	TRITON COMPANY
T239	TOKHEIM COMPANY	T290	TRANSNUCLEAR INC.

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T291	TRINOX COMPANY	T342	TUTTLE-BAILEY
T292	TROLA INDUSTRIES	T343	TUTHILL PUMP COMPANY
T293	TREES, INC.	T344	TURBINE TOOL CAR
T294	TRINITY INDUSTRY	T345	TURCO PRODUCTS
T295	TRANTER MANUFACTURING, INC.	T346	TURNER IRON COMPANY
T296	TRIANGLE CONSTRUCTION COMPANY	T347	TWIN CITY TESTING
T297	TRC-RESEARCH CORP.	T348	TWINING LABORATORIES
T298	TRIANGLE PUMPS MANUFACTURING COMPANY	T349	TWINCO INC.
T299	TRENWA PRODUCTS INC.	T350	TYLAN CORP.
T300	TRAPFLO	T351	TYCO INSTRUMENT DIVISION
T301	TRIANGLE-PWC-INC.	T352	TURBO LUPTTECHNIK SYSTEMS
T302	TRW MISSION MANUFACTURING COMPANY	T353	TURNER CONSTRUCTION COMPANY
T303	TRICO FUSE MANUFACTURING COMPANY	T354	TYLER-DAWSON SUPPLY COMPANY
T304	TRILER COMPANY INC.	T355	TURNAROUND MAINTENANCE
T305	TRAVERSE CITY IRON WORKS	T356	TWIN CITY FAN & BLOWER COMPANY
T306	TRW NELSON DIVISION	T357	TWIN DISC CLUTCH COMPANY
T307	TREMCO MANUFACTURING COMPANY, THE	T358	TUBAN INDUSTRIAL PRODUCTS COMPANY
T308	TRI-CITY ELECTRIC COMPANY	T359	T X I STRUCTURAL PRODUCTS, INC.
T309	TREWICE, H. D. COMPANY	U001	UCHIDA OIL HYDRAULICS
T310	TRENT TUBE DIVISION	U002	U. S. ALLOY STEEL
T311	TRINITY FORGE INC.	U003	U. S. BELLOWS
T312	TRINITY EQUIPMENT CORP.	U004	U. S. FLEXIBLE METALLIC TUBING COMPANY
T313	TRI-STATE MOTOR EXPRESS	U005	U. S. ELECTRIC
T314	TRIANGLE ENGINEERING COMPANY	U006	U.S. ECOLOGY INC (FORMERLY N275)
T315	TRUMBULL ELECTRIC MANUFACTURING	U009	U. S. NUCLEAR REGULATORY COMMISSION
T316	TRIDENT	U010	U. S. GAGE COMPANY
T317	TRIAD TRANSFORMER	U011	U. S. NATIONAL BUREAU OF STANDARDS
T318	TROY LAUNDRY MACHINE DIVISION	U012	U. S. GROUT CORP.
T319	TRU-SEAL INC.	U013	U. S. MOTORS
T320	TRUSCON STEEL COMPANY	U014	U. S. INDUSTRIAL PAINTING, INC.
T321	TRUSCON LABORATORIES	U015	U. S. NUCLEAR, INC.
T322	TUBES-GEIGER MULLER	U016	U. S. WELDING SUPPLY
T323	TRUMBULL CORPORATION	U017	UMHLING INSTRUMENT COMPANY
T324	TRU-FIT SCREW PRODUCTS CORP.	U018	U. S. PUMPS INC.
T325	TUBE METHODS INC.	U019	UNCAR DIVISION (ELDON INDUSTRIES, INC.)
T326	TRUSSBUILT COMPANY	U020	UGINE INDUSTRIES, INC.
T327	TUBE SALES	U021	UNDERWRITERS SAFETY DEVICE COMPANY
T328	TUBE FORGINGS OF AMERICA INC.	U022	UNIDYNE, INC.
T329	TRYGON ELECTRONICS INC.	U023	UNDERWRITER LABORATORIES, INC.
T330	TUBE TURNS DIVISION	U024	UNIDOR COMPANY
T331	TRI-VALLEY ENGINEERING	U025	ULTRA CARBON CORP.
T332	TROMIX CORP.	U026	UNITED ENGINES INC.
T333	TYLER & HIPFACH GLASS COMPANY	U027	UMW
T334	TRUSSBILT, INC.	U028	UNARCO-ROHN INC.
T335	TUBECO, INC.	U029	UNIFIN (DIV OF KEEPRITE PRODUCTS, LTD.)
T336	TUBOFLEX COMPANY	U030	UNIFORM TUBES INC.
T337	TUBULAR PRODUCTS DIVISION	U031	UNIT TRUCK CORP.
T338	TYLER ELEVATOR PRODUCTS, INC.	U032	UNIDYNAMICS/ST. LOUIS, INC.
T339	TUDOR CONSTRUCTION COMPANY	U033	UNILOC
T340	TUPLINE CORP.	U034	UNION BOILER
T341	TURBONETICS INC.	U035	UNION CARBIDE CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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U036	UNAPLEX RUBBER CO	U113	UNITED AIR SPECIALISTS INC
U037	UNION CHAIN MANUFACTURING	U114	UNIRULE INDUSTRIES INC
U038	ULTRA-VIOLET PRODUCTS INC	U115	UNITRON INSTRUMENT COMPANY
U040	UNION CONVEYOR CORP.	U119	UNIVERSAL ATLAS CEMENT DIVISION OF U.S.S.
U044	UNION ELECTRIC COMPANY	U120	UNIVERSAL FABRICATED PRODUCTS COMPANY
U045	UNION ELECTRIC MANUFACTURING	U121	UNIVERSAL ELECTRIC COMPANY
U050	UNION METAL MANUFACTURING	U125	UNIVERSAL INDUSTRIES
U054	UNION PACIFIC	U126	UNIVERSAL INTERLOCK
U055	UNION PUMP COMPANY	U127	UNARCO-LEAVILL (UNARCO IND)
U057	UNION SPRING & MANUFACTURING COMPANY	U129	UOP, INC. (AUTOMOTIVE PRODUCTS DIV)
U060	UNION STEAM PUMP COMPANY	U130	UOP (FORMERLY-UNIVERSAL OIL PRODUCTS)
U062	UNION STEEL CORP.	U131	UNIVERSAL POWER PIPING INC.
U063	UNISORB MACHINERY INSULATION SYSTEMS	U132	UNIVERSAL RAILWAY SERVICE COMPANY
U064	UNIT DOOR COMPANY	U133	UNIVERSAL METAL ROSE COMPANY
U065	UNION SW & SIGNAL DIVISION	U134	UNIVERSAL SILENCER CORP.
U066	UNIROYAL, INC.	U135	UNIVERSAL TECHNICAL TESTING LABORATORIES
U067	UNITECH COMPANY	U136	UNIVERSITY MECHANICAL ENGG CONSTRUCTORS
U068	UNISTRUT CORPORATION	U137	UNIVERSAL WIRE AND CABLE COMPANY
U069	UNIT ELECTRIC COMPANY	U139	UNIV. OF CALIF., C. OF ENGR., O. R. S.
U070	UNITED AIRCRAFT PRODUCTS, INC.	U140	UNIVERSITY SOFTWARE SYSTEMS
U071	UNITED INSTRUMENT CO	U141	UNIVERSITY OF ILLINOIS
U072	UNITED STATES CORPS OF ENGINEERS	U144	UPCO COMPANY, THE
U073	UNITED CONVEYOR CORP.	U145	UNIVERSITY SOUND & PUBLIC ADDRESS SYSTEM
U074	UNITED CONTROLS-DIVISION OF ENVIROTECH	U146	UPTEGRAFF, R. E. COMPANY
U075	UNITED ELECTRIC CONTROLS COMPANY	U150	US ELECTRICAL MOTORS
U076	UNITED CONTROLS SYSTEMS (I.F.M. INC.)	U155	US HOFFMAN MACHINE
U080	UNITED ENGINEERS & CONSTRUCTORS, INC.	U160	USC INC./ENERGY SYSTEMS GROUP
U081	UNITED FABRICATORS, INC.	U161	USCO POWER EQUIPMENT COPR.
U082	UNITED ERECTORS, INC.	U164	USM CORP.
U083	UNITED GUNITE & CONSTRUCTION COMPANY, INC.	U165	US GYPSUM COMPANY
U084	UNITED MCGILL	U166	UTILITY STEEL COMPANY
U085	UNITED MINERAL & CHEMICAL CORP.	U167	UTILITY SUPPLY COMPANY
U087	UNITED NUCLEAR INDUSTRIES	U168	UTILITY FUELS INC
U089	UNITED SHEET METAL	U169	UTILITY POWER CORP
U090	UNITED NUCLEAR CORP.	U170	UTICA TOOL CO INC
U091	UNITED STATES COATING ENGINEERS, INC.	U171	UNHOLTE-DICKIE CORP
U092	UNITED STATES FILTER CORP.	U186	UNIVERSAL WELDING ALLOYS
U093	UNITED STATES ENERGY CORP.	U187	UNIVERSAL WELDING PRODUCTS
U094	UNITED STEEL	V005	V.O.P.
U095	UNITED STATES PIPE & FOUNDRY COMPANY	V006	VAN KEUREN CO
U097	UNITED STATES PLASTIC CORP.	V010	VACCO INDUSTRIES
U100	UNITED STATES RADIUM CORP.	V014	VACUUM APPARATUS
U104	UNITED STATES RUBBER COMPANY	V015	VACUNITE INC.
U105	UNITED STATES STEEL CORP.	V020	VACUUM INDUSTRIES, INC.
U106	UNITED STATES STEEL SUPPLY	V025	VACUUM/ATHOSPHERES CORP.
U107	UNITED SYSTEMS CORP.	V026	VALQUIP CORP
U108	UNITED TOOL COMPANY	V027	VALIN CORP
U109	UNITED TRANSFORMER COMPANY	V028	VITCO NUCLEAR PRODUCTS INC
U110	UNITED STATES TESTING COMPANY, INC.	V029	VALCO
U111	UIP STEEL GROUP, INC (DIV INRYCC INC-1080)	V030	VALCOR ENGINEERING CORP.
U112	UNIBUS INC	V031	VALHALLA SCIENTIFIC INC.

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CODE	VENDOR NAME
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V032	VALLEY FORGE PACKING AND GASKET COMPANY
V033	VALMONT INDUSTRIES
V034	VALLEY CONSOLIDATED INDUSTRIES INC.
V035	VALIDYNE ENGINEERING CORP.
V036	VALLEY STEEL PRODUCTS COMPANY
V037	VALTEK INC.
V038	VALVE AND PRIMER CORP.
V039	VALVE SYSTEMS & CONTROLS
V040	VANCE JIG BORING SERVICE, INC.
V041	VAN DER VAART BRICK AND BUILDING SUPPLY
V042	VAN LOON INDUSTRIES, INC.
V043	VAN HUFFEL TUBE CORP
V044	VAN EPEREN PAINTING INC.
V045	VANCE PRECISION INDUSTRIES
V046	VAN HORN, OLIVER H. COMPANY
V047	VAN KEPPEL CONSTRUCTION COMPANY, INC.
V048	VAN-AIR INC.
V049	VAN HOOSEAR VALVE & CONTROL CO
V050	VANTON PUMP & EQUIPMENT CORP.
V051	VANTRAM ELECTRIC CORP.
V052	VAPOR CORP. - TXT DIVISION
V053	VAPOR RECOVERY SYSTEM COMPANY
V054	VAREC, INC.
V055	VAST ELECTRONICS INC
V056	VICTOREEN INC
V057	VANDO CONSTRUCTION PRODUCTS
V060	VARIAN ASSOCIATES
V065	VARIAN DATA MACHINES
V067	VARIETY FIRE DOOR
V068	VARICEL
V069	VENTURA VALVE & FITTING COMPANY
V070	VECTOR CORP.
V071	VICON CORP
V073	VECTROLS
V075	VEEDER ROOT COMPANY
V076	VEGA ELECTRONICS CORP.
V077	VENT PRODUCTS CO INC
V078	VICTOR EQUIP CO
V079	VISALIA ELECTRIC MOTOR SHOP
V080	VELAN ENGINEERING COMPANIES
V081	VINCENT ROOFING, INC.
V082	VULCAN MANUFACTURING COMPANY
V083	VOH DURPIN INC
V084	VICTAULIC COMPANY OF AMERICA
V085	VELAN VALVE CORP.
V086	VENDER-PLUMBING
V087	VEN-FABRICS INC.
V088	VENTLOK INC.
V089	VENTILOURE COMPANY, INC.
V090	VELONEX
V091	VERAKO PRODUCTS

CODE	VENDOR NAME
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V092	VENETIAN ORNAMENTAL IRON WORKS, INC.
V093	VERMONT YANKEE NUCLEAR POWER CORP.
V094	VERSASAK CORP.
V095	VERSA PRODUCTS
V096	VERMONT RESEARCH CORP.
V097	VERIFLO
V098	VERTICLE TRANSPORT COMPANY
V099	VIBRATION MOUNTINGS & CONTROLS INC.
V100	VEEAN-WEST AND COMPANY
V101	VIBRA SCREW INC.
V102	VIBRANETICS, INC
V103	VIBRATION ELIMINATOR COMPANY
V104	VIBRATION CONTROLS CORP.
V105	VICKERS, INC.
V106	VIBROFLOTATION FOUNDATION COMPANY
V107	VICON INDUSTRIES INC.
V108	VIC MANUFACTURING COMPANY
V109	VICTOR IMPERIAL BCD INPUT PRINTED
V110	VICKERY SIMMS, INC.
V111	VIKING LABORATORIES INC.
V112	VICTORIA IRON AND METAL
V113	VICTOR MANUFACTURING COMPANY
V114	VACTORR PUMP COMPANY
V115	VICTOREEN INSTRUMENT DIVISION
V116	VIERLING STEEL WORKS
V117	VICTOR SPECIALTIES
V118	VIDEOTECHNIQUES
V119	VIKING AUTOMATIC SPRINKLER COMPANY
V120	VIKING INDUSTRIES
V121	VIKING FIRE PROTECTION COMPANY
V122	VIKING CORP.,
V123	VINSON SUPPLY COMPANY, THE
V124	VITRO LABORATORIES
V125	VIKING PUMP COMPANY
V126	VINYL PLASTICS, INC.
V127	VIRGINIA ELECTRIC & POWER COMPANY
V128	VIRGINIA METAL COMPANY
V129	VISCOSITY OIL COMPANY
V130	VISUAL INDUSTRIAL PRODUCTS, INC.
V131	VISI-COM
V132	VITRO ENGINEERING DIVISION
V133	VOGEL-PETERSON
V134	VOITH TRANSMISSION INC.
V135	VOGT, HENRY MACHINE COMPANY
V137	VOLUMETRICS
V138	VOUGHT CORP.
V139	VOGT GENERAL CHECK VALVE COMPANY
V140	VOKES, H. L. COMPANY
V141	VOSSCO COMPANY
V142	VOTAW PRECISION TOOL COMPANY
V143	VON RUDEN MANUFACTURING COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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V144	VOSS INTERNATIONAL	W043	WAY ENGINEERING COMPANY
V145	VWR SCIENTIFIC	W044	WATSON-FLAGG ELECTRIC COMPANY, INC.
V156	VYRON CORP.	W045	WARNER & SWASEY COMPANY
V157	VSI	W046	WATER ASSOCIATES
V158	VSL CORP.	W047	WATTS REGULATOR COMPANY
V159	VULCAN MATERIALS COMPANY	W048	WEAR-FLEX SLINGS
V160	VULCAN STEEL FOUNDRY COMPANY	W049	WEKSLER, INC.
V161	VULCRAFT COMPANY	W050	WARNER ELEVATOR MANUFACTURING COMPANY
V162	V.M.P.S.--G.E. SAN JOSE	W051	WARREN-RUPP PUMP COMPANY
W001	WAAGNER-BIRO	W052	WARREN BARR SUPPLY COMPANY
W002	W-S FITTING WORKS	W053	WARREN PUMPS
W003	W.S. SUPPLY INC.	W054	WATUBO INDUSTRIES
W004	WADE, DIVISION OF TYLER PIPE	W055	WARRICK, CHARLES F. COMPANY
W005	WAGNER ELECTRIC CORP.	W056	WEBB, JERVIS B. COMPANY
W006	WAGNER, J. F. SONS COMPANY, INC.	W057	WASHINGTON PUBLIC POWER SUPPLY SYSTEM
W007	WAHLCO CONSTRUCTION COMPANY	W058	WATTS PLUMBING SPECIALISTS
W008	WEST COAST SWISS WATCH COMPANY	W059	WAUKESHA ELECTRIC MACHINERY MFG. CO.
W009	WEIDENMILLER COMPANY	W060	WASHINGTON TOOL AND MACHINE COMPANY
W010	WAKEFIELD BRASS COMPANY	W061	WATSON, H. S. COMPANY
W011	WANLESS SERVICES CORP.(TELEDYNE/DYNAMICS)	W062	WATKINS BRICK COMPANY
W012	WALCON CORP.	W063	WATER TREATMENT CORP.
W013	WALDEN INDUSTRIAL	W064	WATERS EQUIPMENT DIVISION
W014	WALDINGER CORP., THE	W065	WATLOW ELECTRIC MANUFACTURING COMPANY
W015	WALKER-PARKERSBURG DIVISION	W066	WAUKESHA STEEL
W016	WALDRON COUPLINGS-MACHINERY DIV OF MIDLAND	W067	WATSON MANUFACTURING COMPANY, INC.
W017	WESTERN PETRO CHEMICAL SERVICES	W068	WATSON-STILLMAN COMPANY
W018	WATERMAN MACHINE MANUFACTURING COMPANY	W069	WAYNE ELECTRONICS
W019	WESSELS COMPANY	W070	WAUKESHA FOUNDRY COMPANY, INC.
W020	WALL TUBE & METAL PRODUCTS COMPANY	W071	WEATHERGUARD PRODUCTS
W021	WALLACE AND COMPANY	W072	WEIL PUMP COMPANY
W022	WESCO INDUSTRIES CORP.	W073	WEINMAN PUMP MANUFACTURING COMPANY
W023	WALLACE-MURRAY CORP.	W074	WEBER GAGE COMPANY
W024	WANPFLER INC.	W075	WEKSLER INSTRUMENT CORP.
W025	WALLACE & TIEMAN, INC.	W076	WEJ-IT EXPANSION PRODUCTS
W026	WALLGREEN CONSTRUCTION COMPANY	W077	WELDCRAFT EQUIPMENT COMPANY
W027	WELLER-XCELITE ELECTRONICS DIVISION	W078	WEBSTER ELECTRIC
W028	WALNOR COMPANY	W079	WEDCO CORP.
W029	WALTERS ENGINEERING INC.	W080	WELDING AND STEEL FABRICATION COMPANY, INC
W030	WALWORTH COMPANY	W081	WECO
W031	WALTER, J. DOORS - DIV OF GELOTEX CORP.	W082	WEBB MATERIAL HANDLING
W032	WALTER MORRIS ENGINEERING COMPANY	W083	WEISS, ALBERT A. & SON, INC.
W033	WALTER KIDDE & COMPANY, INC. (SEE K120)	W084	WELCO ALLOYS
W034	WALSH CONSTRUCTION COMPANY	W085	WERNER & PFLEIDERER CORP.
W035	WANG LABORATORIES, INC.	W086	WELL EQUIPMENT MANUFACTURING CORP.
W036	WALTER, C. E., INC	W087	WENDHEGEL & COMPANY, INC.
W037	MARCO CONTROL CENTER	W088	WEST CHEMICAL PRODUCTS, INC.
W038	WARMAN EQUIPMENT INTERNATIONAL LTD.	W089	WESTCO PUMP SALES
W039	WARD, J. P. COMPANY	W090	WESCHLER ELECTRIC CORP.
W040	WARD LEONARD ELECTRIC COMPANY	W091	WESMAR
W041	WEKSLER THERMOMETER CORP.	W092	WESTERN ARCHITECTURE IRON
W042	WARREN ELECTRIC COMPANY	W093	WESTERN CONTROLS INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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W094	WESTERN CONCRETE STRUCTURES	W145	WHEELING CORRUGATING
W095	WESTERN ELECTRIC	W146	WHELOCK
W096	WELK BROTHERS	W147	WESTERN STRUCTURAL COMPANY
W097	WESTERN ENGINE COMPANY	W148	WESTERN CONSULTING ENGINEERS
W098	WESTERN FORGE AND FLANGE	W149	WHIRLPOOL INC.
W099	WESTERN GEOPHYSICAL ENGINEERS, INC.	W150	WHIRL AIR FLOW
W100	WESTERN INDUSTRIES, INC.	W151	WHITE ENGINE INC.
W101	WESTERN HYDRAULIC	W152	WHITE INDUSTRIAL POWER, INC.
W102	WESTERN INC.	W153	WHITE, J. S.
W103	WESTERN GEAR CORP.	W154	WESTRAN CORP.
W104	WESTERN MARINE ELECTRONICS COMPANY	W155	WHITE, RALPH COMPANY, THE
W105	WESTERN PIPING & ENGINEERING CORP. OF L.A.	W156	WHITEACRE ENGINEERING COMPANY
W106	WEIL-MCLAIN CORP.	W157	WHITE-ROGERS
W107	WESTERN IRON WORKS INC.	W158	WESTERN RIGGING PRODUCTS INC.
W108	WEED INSTRUMENT COMPANY, INC.	W159	WHITNEY VALVE COMPANY
W109	WELLS MANUFACTURING COMPANY	W160	WHITHEAD & KALES COMPANY
W110	WESTERN PRECIPITATION	W161	WHITHEAD METAL
W111	WAUKESHA-PEARCE INDUSTRIES	W162	WHITEHOUSE, IRVIN H. & SON, INC.
W112	WESTERN PIPE & SUPPLY COMPANY	W163	WESTERN PIPING & ENGINEERING COMPANY, INC.
W113	WELDY-LANONT ASSOCIATES, INC.	W164	WHITNEY RESEARCH TOOL COMPANY
W114	WESTERN RAILWAY DEVICES CORP.	W165	WHITNEY COMPANY
W115	WESTERN SINTERING COMPANY, INC.	W166	WESTERN VENTILLATING COMPANY
W116	WESTERN SWITCHBOARD COMPANY	W167	WHITE & THOMAS, INC.
W117	WESTERN TOOL	W168	WEICHAERT STAMPING COMPANY
W118	WESTERN TANK & STEEL COMPANY	W169	WESTATES ELECTRONICS CORP.
W119	WESTINGHOUSE AIR BRAKE COMPANY (WABCO)	W170	WHITING CORP.
W120	WESTINGHOUSE ELECTRIC CORP.	W171	WESTERN ELECTRO MECHANICAL COMPANY
W121	WESTINGHOUSE ELECTRIC COMPANY (ELEV. DIV)	W172	WEIDMULLER TERMINATIONS INC.
W122	WHEELING WELL WORKS	W173	WELDING COMPANY INC.
W123	WESTINGHOUSE ELECTRIC SUPPLY COMPANY	W174	WARNER ELECTRIC BRAKE & CLUTCH COMPANY
W124	WESTON INSTRUMENTS DIVISION	W175	WHITING FOUNDRY EQUIPMENT
W125	WESTON ELECTRIC INSTRUMENT	W176	WESTERN TUBE & CONDUIT CORP.
W126	WESTON GEOPHYSICAL ENGINEERS, INC.	W177	WEAVER, MILES T. AND SONS, INC.
W127	WESTON HYDRAULICS DIVISION	W178	WHITMAN GENERAL CORP.
W128	WEST STEEL	W179	WEAMCO CORP.
W129	WFI INTERNATIONAL INC.	W180	WHITLOCK MANUFACTURING COMPANY, THE
W130	WESTRONICS, INC.	W181	WHITNEY, J. C. & COMPANY
W131	W.F. & JOHN BARNES (SEE B103)	W182	WATERS MANUFACTURING, INC.
W132	WHEATLEY, CHARLES COMPANY	W183	WESTERN GEOPHYSICAL COMPANY OF AMERICA
W133	W.H.A.M. COMPANY	W184	WHITTING CORP.
W134	WHEATLEY COMPANY	W185	WHITTAKER CORP.
W135	WHEATON SCIENTIFIC	W186	WEINMAN PUMP & SUPPLY COMPANY
W136	WHALEN CHELSTON COMPANY	W187	WICKHAM GLASS COMPANY
W137	WHEELABRATOR CORP.	W188	WAUSAU METALS CORP.
W138	WHEELABRATOR-FRYE, INC.	W189	WHITTAKER METALS
W139	WEATHER MEASURE CORP.	W190	WHITTAKER DIVISION OF TASKER INDUSTRIES
W140	WHEELER, C. H. DIVISION	W191	WHITTET-HIGGINS COMPANY
W141	WHEELER REFLECTOR COMPANY, INC.	W192	WHOLESALE ELECTRIC SUPPLY COMPANY
W142	WEBB MECHANICAL INTERPRISES	W193	WIANCKO ENGINEERING COMPANY
W143	WEBSTER MANUFACTURING COMPANY	W194	WICHITA SHEET METAL SUPPLY COMPANY, INC.
W144	WESTERN ENGINEERING & SUPPLY COMPANY	W195	WICKES BOILER COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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W196	WILDEN PUMP & ENGINEERING COMPANY	W247	WISCONSIN PUBLIC SERVICE CORP.
W197	WESTON COMPONENTS & CONTROLS	W248	WISCONSIN STEEL
W198	WALKER & WALKER, INC.	W249	WISS, JANNEY, ELSTNER AND ASSOCIATES
W199	WINTRONICS, INC.	W250	WITCO CHEMICAL COMPANY
W200	WIEGAND, EDWIN L. MANUFACTURING COMPANY	W251	WISD
W201	WABCO FLUID POWER DIV (AMERICAN STD. INC.)	W252	WILMOT ENGINEERING COMPANY
W202	WARNER FIBERGLASS PRODUCTS, INC.	W253	W.J.E. & ASSOCIATES
W203	WAGNER, R & B INC	W254	WARREN CONTROLS CORP
W204	WHITE, JAMES C. CO	W255	WKM VALVE DIVISION
W205	WILSON, J. G. CORP.	W256	WHAYNE SUPPLY CO
W206	WILLIAMS, CLYDE E. & ASSOCIATES	W257	WISCONSIN CRANE & HOIST CORP
W207	WING COMPANY, THE	W258	WARNER, GEO. W & CO INC
W208	WILLIAMS FORM ENGINEERING CORP.	W259	WALDRON DUFFY INC
W209	WILMAR ELECTRONICS INC.	W260	WOLFE AND MANN MANUFACTURING COMPANY, THE
W210	WIGGINS, STANLEY B.	W261	WALTON LABORATORIES
W211	WILKIN INSULATION	W262	WELSTAR CO
W212	WILDMAN BOILER & TANK	W263	WALCO INDUSTRIES SUP CO INC
W213	WILD-HEERBRUGG CORP.	W264	WISCONSIN POWER & LIGHT CO (MADISON)
W214	WILKERSON CORP.	W265	WOLLENSAK, INC.
W215	WILKES PRECISION	W266	WELDED TUBE CO OF AMERICA
W216	WILKENS ANDERSON	W267	WHEELING MACHINE PRODUCTS CO
W217	WILLIAMS AND COMPANY	W268	WASHINGTON STEEL CORP
W218	WILLIAMS CRANE & RIGGING	W269	WEST JERSEY MFG CO
W219	WILLIAMS & LANE INC.	W270	WOLVERINE TUBE DIVISION
W220	WILLIAMS PRODUCTS, INC.	W271	WESTERN FIRE EQUIP
W221	WILLIAMSBURG	W272	WESTERN WOODCRAFT MFG CO
W222	WILLAMETTA COMPANY	W273	WELLMAN THERMAL SYSS CORP
W223	WILLIS & PAUL CORP., THE	W274	WAHL INSTRUMENTS INC
W224	WIN-WAY, INC.	W275	WOOD, JOHN MANUFACTURING
W225	WILLIAMSON CORP.,	W276	WATSON MC DANIEL CO
W226	WILSON ENGINEERING CORP.	W277	WALBRIDGE ALDINGER CO
W227	WILLIANETTE IRON & STEEL COMPANY	W278	WILKINS PIPE & SUPPLY CO INC
W228	WILSON ANCHOR SLEEVE, INC.	W279	WALTRONICS SALES
W229	WILTON-FIJENOORD N.V.	W280	WOOD, N. COUNTER LABORATORY, INC.
W230	WING, L. J. MANUFACTURING	W281	WEST INSTR GULFON INDS DIV(M.C.S.)
W231	WINNIE, FRANK W. & SON INC.	W282	WHITNEY, W. A. CO
W232	WINSMITH INC.	W283	WATTS FLUID POWER INC
W233	WINSMITH GEAR REDUCER	W284	WOOD INDUSTRIAL PRODUCTS COMPANY
W234	WINTERBURN MANUFACTURING COMPANY	W285	WOODBIDGE ORNAMENTAL
W235	WINSTON MANUFACTURING COMPANY	W286	MOODIN & LITTLE
W236	WINTER BROTHERS COMPANY	W287	WOODS, T. B. AND SONS
W237	WINTER CONTROL	W288	WOODMAR WELDING & FABRICATING, INC.
W238	WIRT & KNOX COMPANY	W289	WILLOW PRODS CO INC
W239	WIRE HOLD COMPANY	W290	WOODWARD GOVERNOR COMPANY
W240	WISCONSIN BRIDGE & IRON	W291	WIKA INSTRUMENTS CORP
W241	WISCONSIN CENTRIFUGAL INC.	W292	WARREN RADIO CO
W242	WISCONSIN MICHIGAN ELECTRIC COMPANY	W293	WHITE, JIM METAL PRODUCTS INC
W243	WISCONSIN ELECTRIC POWER COMPANY	W294	WELDSTAR CO
W244	WISNER AND BECKER	W295	WOODWARD-CLYDE CONSULTANTS
W245	WISCONSIN PROTECTIVE COATING CORP.	W296	WOODWARD-LUNDGREN AND ASSOCIATES
W246	WISCONSIN ASSOCIATES	W297	WOODWARD-MOORHOUSE & ASSOCIATES, INC.

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W298	WILSON LABORATORIES INC	Y003	YALE
W299	WORTHINGTON COMPRESSORS INC	Y004	YANKEE ATOMIC ELECTRIC COMPANY
W300	WOOLEY COMPANY	Y005	YARNALL-WARING COMPANY
W301	WOOSTER PRODUCTS, INC	Y006	YOKOGAWA CORPORATION OF AMERICA
W302	WOOLLEY, W. J. COMPANY	Y007	YOUNG, BEN T. CO
W303	WOOLSEY MAINE INDUSTRIES	Y010	YARWAY CORP.
W304	WOOSTER ELECTRIC COMPANY	Y011	YAWATA IRON & STEEL COMPANY
W305	WORCESTER CONTROLS CORP.	Y012	YBAGER, HENRY J. ASSOCIATES
W306	WORCESTER POLYTECHNIC INST.-MECH ENG DEPT	Y014	YELLOW SPRINGS INSTRUMENT COMPANY INC.
W307	NAVTEK	Y015	YEOMANS BROTHERS
W308	WORCESTER VALVE COMPANY INC.	Y016	YOUNG, R. M. CO
W309	WORTHINGTON PUMP CORP (MCGRAW-EDISON)	Y017	YORK SEPERATORS INC.
W310	WORDEN-ALLEN COMPANY	Y018	YORK DIVISION OF BORG-WARNER
W312	WORLD WIDE RESEARCH	Y019	YORK ELECTRIC PANEL CONTROL CORP.
W313	WORTH WELDER SUPPLY	Y020	YORK, O. H. COMPANY
W314	WORTHINGTON CONTROLS COMPANY	Y021	YOUNG RADIATOR COMPANY
W315	WORTHINGTON CORP.	Y022	YOUNGSTOWN SHEET AND TUBE COMPANY
W316	WALDINGER-YOUNGE & BERTKE	Y023	YOUNG & BERYKE CO
W317	WORTHINGTON SALES INTERNATIONAL	Y024	YOUNG BROS STAMP WORKS INC
W318	WORTHINGTON PUMP CORP.	Y025	YOUNGSTOWN STEEL TANK
W319	WORTHINGTON CEI INC.	Y027	YOUNGSTOWN WELDING AND ENGINEERING
W320	WRIGHT-AUSTIN COMPANY	Y028	YUGO-STAL, INC.
W321	WRIGHT, NORMAN S. & COMPANY	Y029	YUBA CONSOLIDATED INDUSTRIES
W322	WRIGHT, F. B. COMPANY	Y030	YUBA HEAT TRANSFER
W323	WRIGHT WATERPROOFING COMPANY	E001	EACHRY, H. B. COMPANY
W324	WRIGHT, SCHUCHART, HARBOR, INC.	E002	EELER BROTHERS, INC.
W325	WRIGHT, HOWARD S. CONSTRUCTION COMPANY	E003	EANE WELDCRAFT, INC.
W326	WRIGHT HOIST DIVISION	E004	EALG, JOHN COMPANY
W327	WSP INDUSTRIES, INC.	E005	EIRCONIUM TECHNOLOGY CORP.
W328	WULPTANGE IRON WORKS	E006	EIMMERMAN, E. W., INC.
W329	WURSTER, BERNARDI & EMMONS, INC.	E007	EACH COMPANY
W330	WYATT DIVISION	E008	EINSCO ELECTRICAL PRODUCTS
W331	WASTECHEM CORP	E009	EETHYR METAL CRAFT INC.
W332	WEAVER, F. M. (TEXAS) INC	E010	EURN INDUSTRIES, INC.
W335	WYATT INDUSTRIES, INC.	E011	EORELCO
W336	WYLE LABORATORIES	E012	EYTRON
W340	WYMAN-GORDON COMPANY	E013	EENITH CONTROLS, INC.
W350	WESCOM, INC.	E014	EALK-JOSEPH COMPANY
W351	WESTINGHOUSE ELEC CORP.-NUCLEAR ENERGY SYS	E015	EAHNER, A. SHEETMETAL COMPANY, INC.
X001	XEROX DATA SYSTEM	E016	EWEIG, PHILIP & SONS, INC.
X002	XOMOX CORP.	E017	EETEC, INC.
X003	X-RAY INC.	E018	EKKS AIR DRIER CORP.
X004	X-RITE CO	E019	EELLER ELECTRIC CO
X005	X-RAY ENGINEERING COMPANY	E020	EOLTEC CORP
X007	X-RAY INDUSTRIAL	E021	EACK ELECTRONICS
X010	X-RAY PRODUCTS CORP.	E022	EYPCO INC
X011	XTEX	E023	EONIC CORP
X012	XERXES FIBERGLASS INC (X-REF H119)		
X013	XYCOM INC (FRHLY-PROC COMP SYSS INC)		
Y001	YAMAS, G. J. COMPANY INC.		
Y002	YALE & TOWNE		

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 Component Vendor Codes Sorted by Name

CODE	VENDOR NAME	CODE	VENDOR NAME
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A005	A & A MANUFACTURING CO.	A035	ACME IND.
A004	A & B PRODUCTS, INC.	A597	ACME STRUCTURAL, INC
A007	A & C CONTROLS MANUFACTURING CO., INC.	A033	ACME WELDING - DIV OF UNITED TOOL & DIE
A006	A & H ENGINEERING	A038	ACOPIAN
A277	A & S WELDING COMPANY	A052	ACORN BUILDING COMPONENTS INC.
A536	A C LIGHTNING SECURITY INC	A047	ACORN CO.
A231	A M P INC.	A036	ACORN WIRE AND IRON WORKS
A542	A4J UNITED MACHINE & METAL PROD CORP	A053	ACRA ELECTRIC CORP.
A442	A4M INSULATION CO	A043	ACRIMENT COMPANY
A287	A4S BLDG SYSTEMS	A049	ACRISON, INC.
A034	A-C PIPE CO.	A042	ACROMAG
A263	A-D CONTROLS, INC.	A037	ACS INDUSTRIES INC.
A157	A-LINKED HANDLING SYSTEM	A279	ACS, INC.
A017	A-S-H PUMP	A051	ACTION INSTRUMENT CO., INC.
A015	A. P. V. COMPANY, INC.	A376	ACTIONCRAFT PRODS INC
A011	A. R. ENGINEERING	A040	ACTON ENVIRONMENTAL TESTING CORP.
A010	A. R. T. RESEARCH CORP.	A251	ACUREY CORP.
A001	AA WIRE PRODUCTS COMPANY	A046	ACUSHNET CO.
A002	AAA PRODUCTS	A045	AD-O-PLASTIC
A020	AAB NUCLEAR CORP.	A543	ADAM METAL SUPPLY INC
A009	AACTION BLDG SYSTEMS INC.	A050	ADAM, FRANK
A337	AB SUPERIOR	A055	ADAMS & WESTLAKE
A022	ABANA PRODUCTS, INC.	A060	ADAMS, R. P. CO., INC.
A021	ABBOTT HEAT EXCHANGER CORP.	A061	ADAMSON CO., INC.
A048	ABBOTT POWER CORPORATION	A063	ADAPTO STEEL PRODUCTS
A008	ABC DOORS	A019	ADD KON INC.
A012	ABC HARDWARE & SUPPLY CO.	A065	ADE CORP.
A023	ABCO WELDING & INDUSTRIAL CO.	A070	ADELPHI INDUSTRIES
A003	ABELL-HOWE COMPANY	A069	ADHESIVE ENGINEERING
A013	ABEX CORPORATION	A071	ADMIRAL PAINT CO.
A014	ABEX DENISON COMPANY (DIV OF ABEX CORPORATION)	A064	ADRESSOGRAPH/MULTIGRAPH (BRUNING DIV.)
A024	ABLE SCALES CO.	A072	ADSCO DIV (YUMA)
A016	ABLE SERVICES INC.	A073	ADT SECURITY SYSTEMS
A286	AC VALVE & CONTROL CORP	A248	ADVANCE AIR (DIV OF ALLIED THERMAL)
A397	AC-DC ELECTRONICS	A283	ADVANCE AUTOMATION COMPANY
A026	ACC-ELECTRO MECHICAL DIVISION	A074	ADVANCE CAST STONE CO.
A025	ACCELERATORS, INC.	A079	ADVANCE CONSTRUCTION EQUIPMENT CO, INC.
A041	ACCO BRISTOL DIVISION	A076	ADVANCE ENGINEERING CO.
A018	ACCO-HOIST & CRAIN DIVISION	A078	ADVANCE EQUIPMENT CO, INC.
A030	ACCURATE ENGINEERING CO.	A526	ADVANCE IND
A027	ACCURATE PARTITIONS, DIV-KINCID INDUST INC.	A081	ADVANCE LIPTS INC.
A028	ACE CONTROLS	A075	ADVANCED PRODUCTS CO.
A413	ACE PUMP CORP	A077	ADVANCED TESTS AND INSPECTIONS, INC.
A054	ACE WELDING SUPPLY INC.	A080	AEG TELEFUNKEN
A032	ACP INDUSTRIES INC.	A085	AERMOTOR
A031	ACID PRODUCTS CO, INC.	A088	AERO MOTIVE MFG COMPANY
A044	ACINET MFG CO.	A090	AERO RESEARCH CO.
A338	ACM DISTRIBUTORS INC	A101	AERO SPACE (DIV OF U.O.P.)
A039	ACHAT CORP.	A201	AERO-JET GENERAL CORP.
A701	ACME ELECTRIC CORP.	A068	AEROACOUSTICS CORPORATION, THE
A029	ACME ENGINEERING & MFG. COMPANY	A352	AERODYNE DEVELOPMENT CORP

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A089	AEROFIN CORP.	A067	AIR-MADE INCOM INTERNATIONAL INC.
A062	AEROJET ENERGY CONVERSION CO.	A125	AIR-TEC, INC.
A095	AEROJET MANUFACTURING CO.	A093	AIRCO CRYOGENICS
A087	AERONCA INC.	A140	AIRCO CRYOPLANTS CORP.
A102	AEROPROCESS, INC.	A059	AIRCO INDUSTRIAL GASES
A100	AERROQUIP CORP.	A127	AIRCO LABORATORY
A103	AEROTEC INDUSTRIES, INC.	A130	AIRCO SPEER CARBON-GRAPHITE DIV
A104	AEROTECH TRANSDUCER TECHNOLOGY CENTER	A135	AIRCO TEMESCAL
A105	AEROTEST OPERATIONS	A142	AIRCO WELDING SUPPLY
A091	AEROTRONIC CONTROL CORP.	A092	AIRLINE HYDRAULICS CORP.
A110	AEROVENT FAN & EQUIPMENT INC.	A121	AIRLINE PRODUCTS CO.
A106	AEROVENT INC.	A119	AIRMATIC VALVE INC.
A112	AETNA MACHINE CORPORATION	A122	AIROLITE
A107	AFCO STEEL	A252	AIROX EARTH RESOURCES
A108	AFFILIATED STEAM EQUIPMENT CO.	A123	AIRPAX ELECTRONICS INC.
A261	AFL INDUSTRIES	A530	AIRSTREAM PROD DIV
A109	AGASTAT RELAY CO.	A066	AIRTEK INC.
A272	AGGREGATE EQUIPMENT, INC.	A126	AIRTITE, INC.
A084	AGITAR CO.	A256	AIRTRONICS CORPORATION
A097	AGM ELECTRIC INC.	A145	AITKEN PRODUCTS
A354	AGM ELECTRONICS INC	A150	AJAX IRON WORKS
A254	AHERN, J. F., CO.	A141	AKRO-TEC, INC.
A086	AHERN, J. S. CO.	A262	AKRON BRASS COMPANY
A111	ALITECH	A158	ALABAMA METAL INDUSTRIES CORPORATION
A264	AINSWORTH	A144	ALABAMA PIPE CO.
A124	AIR BALANCE, INC.	A151	ALABAMA POWER COMPANY
A137	AIR CLEAN DAMPER COMPANY	A166	ALADDIN CO.
A134	AIR CONDITION PRODUCTS COMPANY	A339	ALAMEDA FENCE CO
A083	AIR CONDITIONING CO., INC.	A057	ALAMEDA TANK CO.
A117	AIR CONTROL INCORPORATED	A139	ALAMO IRON WORKS
A113	AIR CORRECTION DIV, UNIVERSAL OIL	A269	ALASKAN COPPER WORKS
A082	AIR DEVICES INC.	A159	ALBAMA PRECAST PRODUCT
A094	AIR DIMENSIONS, INC.	A163	ALBANY ENGINEERS SYSTEM
A096	AIR FAN ENGINEERING CO.	A146	ALBANY PRODUCTS
A056	AIR FILM SYSTEMS CORP.	A548	ALBECCO CO
A116	AIR FILTER AND EQUIPMENT CO.	A341	ALBER ENGG INC
A554	AIR FILTER CONTROL	A138	ALBERICI CONSTRUCTION COMPANY
A128	AIR GUIDE CO.	A147	ALBERT PIPE & SUPPLY
A132	AIR MAPS, INC.	A148	ALBI MFG CITIES SERVICE CO.
A131	AIR MARK	A278	ALBINA ENGINE & MACHINE WORKS, INC.
A118	AIR MONITOR CORP.	A149	ALCATEL VACUUM PRODUCTS
A561	AIR MONITORING INC	A176	ALCO CONTROLS
A099	AIR MOVING & CONDITIONING ASSOCIATION	A152	ALCO ENGINE DIVISION, WHITE IND.
A115	AIR PREHEATER COMPANY	A257	ALCO POWER INC.
A120	AIR PRODUCTS & CHEMICALS INC.	A162	ALCOA CONDUCTOR PRODUCTS CO.
A136	AIR PRODUCTS EQUIP. COMPANY	A288	ALCORN FENCE
A098	AIR SPRAY EQUIP INC.	A329	ALLAG SHEET METAL WKS
A539	AIR TECHNIQUE INC	A402	ALDEN HEATING & VENTLING EQUIP CO
A431	AIR TURBINE PROPELLER CO	A336	ALERT STEEL PROD CO
A129	AIR-BOY MANUFACTURING COMPANY	A154	ALEXANDER CHEMICAL CO.
A114	AIR-MADE DIV (ROCKWELL STANDARDS)	A226	ALEXANDER GAMMIE & ASSOCIATES

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A156	ALEXANDER VACUUM RESEARCH, INC.	A191	ALLOY SLING CHAINS, INC.
A273	ALEXANDRIA GLASS CO.	A189	ALLOY STAINLESS PRODUCTS CO.
A296	ALFA-LAVAL INC	A236	ALLOY STEEL CASTING COMPANY
A143	ALFAB, INC.	A190	ALLOY STEEL PRODUCTS CO.
A198	ALISON CONTROL INC.	A199	ALLSTATE CHEMICAL CO.
A133	ALKEO	A195	ALLSTATS DESIGN & DEVELOPMENT CO.
A153	ALL BORO METAL PRODUCTS CO.	A196	ALMEDA TANK
A202	ALL SPEC FASTENERS INC.	A197	ALNOR INSTRUMENT CO.
A184	ALL STAINLESS OF TEXAS INC.	A200	ALOYCO, INC.
A334	ALL-LITE METAL WINDOW CO	A432	ALPHA ASSOC INC
A194	ALL-STAINLESS PRODUCTS CO.	A205	ALPHA SCIENTIFIC, INC.
A203	ALLAN ENGINEERING CO, INC.	A207	ALPHA TANK & METALS MANUFACTURING
A155	ALLEGHENY LUDLUM STEEL CORP.	A351	ALPHA WIRE CORP
A292	ALLEGHENY PLASTICS INC	A556	ALPHA-LARM (HOCHIKI AMERICA CORP)
A168	ALLEN UNDERGROUND	A293	ALSPAUGH, GLEN CO INC
A164	ALLEN, H. C. CORPORATION	A204	ALSTHOLM-BELFORT (FRANCE)
A167	ALLEN, W. D., MANUFACTURING CO.	A206	ALT, W. S., & SON
A160	ALLEN-BRADLEY CO.	A208	ALTEN
A165	ALLEN-SHERMAN-HOFF	A209	ALTO ENGINEERING ASSOCIATES
A161	ALLENCO	A259	ALTON TECHNOLOGY, INC.
A700	ALLIED AIR PRODUCTS COMPANY	A210	ALUMINUM CO. OF AMERICA
A169	ALLIED BUILDING SYSTEMS	A213	AM & M, INC.
A170	ALLIED CHEMICAL CORP.	A276	AM CONTROLS
A403	ALLIED CONSTRUCTION SERVICE	A347	AMARILLO GEAR COMPANY
A171	ALLIED CONTROL CO.	A211	AMAX
A173	ALLIED ELECTRONICS	A221	AMB FLEXIBLE HOSE INC.
A172	ALLIED ENGINEERING & PRODUCTION	A558	AMBAC INDUSTRIES INC
A227	ALLIED FIRE EQUIP CO. INC.	A224	AMBASSADOR GLASS, INC.
A174	ALLIED INDUSTRIES	A214	AMBR/BOOTH CO.
A228	ALLIED LEAD, INC.	A234	AMBI-TECH INDUSTRIES INC.
A178	ALLIED RADIO	A346	AMBROSINI & CHALMERS, INC.
A179	ALLIED STEEL	A216	AMCHEM PRODUCTS INC.
A177	ALLIED STRUCTURAL STEEL	A212	AMCOMP INC.
A377	ALLIED SUP CO	A217	AMELCO ELECTRIC CO., INC.
A182	ALLIED SUPPLIER & ERECTION INC.	A348	AMERACE CORP.
A181	ALLIED THERMAL CORP.	A219	AMERICAN ABRASIVE METALS COMPANY
A409	ALLIED VALVE INDUSTRIES INC	A258	AMERICAN AERIAL SUVERYS, INC. OF W. CALIF
A229	ALLIED-CALLAWAY EQUIPMENT COMPANY, INC.	A222	AMERICAN AEROSPACE
A175	ALLIED-GULF NUCLEAR SERVICES	A220	AMERICAN AIR FILTER CO., INC.
A294	ALLIGER & SEARS CO (SCRUGGS CO INC)	A223	AMERICAN ART METALS
A180	ALLIS CHALMERS	A225	AMERICAN ATONICS CORP.
A185	ALLIS, LOUIS	A230	AMERICAN BEARING
A183	ALLISON CONTROL CORP.	A233	AMERICAN BILTRITE RUBBER COMPANY
A407	ALLMETAL SCREW PRODS CO INC	A235	AMERICAN BLOWER CORP.
A232	ALLMETALS WELDING	A237	AMERICAN BOILER & TANK CO.
A353	ALLOY CRAFTS CO	A238	AMERICAN BOSCH DIV, ARMA CORP.
A192	ALLOY ENGINEERING CO., INC.	A240	AMERICAN BRIDGE
A186	ALLOY FLANGE AND FITTING CO.	A239	AMERICAN BRISTOL INDUSTRIES INC.
A187	ALLOY MACHINES	A242	AMERICAN CAST IRON PIPE CO.
A193	ALLOY PRODUCTS	A245	AMERICAN CHAIN AND CABLE COMPANY
A188	ALLOY RODS	A244	AMERICAN COIL COMPANY

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CODE VENDOR NAME

A541 AMERICAN COLLOID CO
 A241 AMERICAN COOLAIR CORPORATION
 A243 AMERICAN CORROSION CONTROL DIV
 A408 AMERICAN CRANE AND EQUIP CORP
 A247 AMERICAN CRANE DIVISION, INC.
 A297 AMERICAN DAVIDSON INC
 A249 AMERICAN ELECTRIC
 A274 AMERICAN ELECTRIC POWER SERVICE CORP.
 A250 AMERICAN ENGINEERING
 A253 AMERICAN FAN CO.
 A255 AMERICAN FOUNDRY & FURNACE
 A260 AMERICAN GAS & CHEMICALS INC.
 A265 AMERICAN GAS ACCUM
 A267 AMERICAN HARDWARE
 A266 AMERICAN HEAT RECLAIMING CORPORATION
 A412 AMERICAN HOIST & DERICK CO
 A421 AMERICAN INDUSTRIES CO (AICO)
 A270 AMERICAN INSTRUMENT CO.
 A271 AMERICAN INTERNATIONAL
 A275 AMERICAN LAFRANCE
 A280 AMERICAN LEWA, INC.
 A285 AMERICAN MACHINE & FOUNDRY COMPANY
 A290 AMERICAN MANGANESE DIV
 A291 AMERICAN MANUFACTURING CO. INC.
 A295 AMERICAN MARSH PUMPS
 A300 AMERICAN METAL CLINAX, INC.
 A301 AMERICAN METER COMPANY
 A303 AMERICAN METER CONTROLS
 A333 AMERICAN MICROSEMICONDUCTOR INC
 A302 AMERICAN MONORAIL, INC.
 A299 AMERICAN MULTIPLEX SYSTEMS INC.
 A281 AMERICAN NUCLEAR INSURANCE
 A292 AMERICAN NUCLEAR SOCIETY
 A305 AMERICAN OPTICAL CORP.
 A304 AMERICAN PACKING & GASKET CO.
 A306 AMERICAN PAMCOR, INC.
 A316 AMERICAN PULVERISER CO.
 A308 AMERICAN RUBBER
 A326 AMERICAN SANITARY PARTITION CORP.
 A309 AMERICAN SMELTING & REFINING CO.
 A313 AMERICAN SOCIETY OF MECHANICAL ENGINEERING
 A314 AMERICAN SOCIETY-NON-DESTRUCTIVE TESTING
 A246 AMERICAN SOLENOID CO., INC.
 A317 AMERICAN STAMP & NOVELTY HPG CO.
 A312 AMERICAN STANDARD INDUSTRIAL PRODUCTS DIV.
 A310 AMERICAN STANDARD INDUSTRIES
 A321 AMERICAN STANDARD, HEAT TRANSFER DIV.
 A315 AMERICAN STEAM CONVEYOR
 A320 AMERICAN STEAM PUMP
 A322 AMERICAN STEEL & ALUMINUM CO.
 A323 AMERICAN STEEL & IRON WORKS INC.

CODE VENDOR NAME

A325 AMERICAN TEL & RADIO
 A328 AMERICAN TOOL & MACHINE
 A330 AMERICAN TOOL WORKS
 A335 AMERICAN TRANSFORMER
 A319 AMERICAN VALVE HPG CORPORATION
 A340 AMERICAN WARMING & VENTILATING INC.
 A344 AMERICAN WELDING SOCIETY
 A345 AMERICAN WELL WORKS
 A318 AMERICAN WETTLER
 A311 AMERICAN-SAINT GOBAIN
 A350 AMERON
 A355 AMERSHAM/SEARLE CORP.
 A357 AMERTAP CORPORATION
 A360 AMES CO.
 A363 AMETAK INSTRUMENT AND CONTROLS
 A372 AMETEK (U.S. GAUGE DIV)
 A356 AMETEK INC, MANSFIELD & GREEN DIVISION
 A058 AMETEK INC. (SCHUTTE & KOERTTING DIV)
 A362 AMETEK, STRAEA DIV.
 A401 AMETEK-U S BELLOWS (FRMLY U003)
 A365 AMETEK/CALMEC
 A215 AMF BEAIRD, INC.
 A218 AMF CUNO DIV.
 A289 AMF POTTER & BRUMFIELD DIV
 A358 AMFAC ELECTRICAL SUPPLY CO.
 A364 AMHERS BUILDING COMPANY
 A366 AMINCO
 A367 AMLAB INC.
 A411 AMOCO OIL CO
 A373 AMOS, A.R. EQUIPMENT CO.
 A368 AMOT CONTROL CORP.
 A382 AMP SPECIAL INDUSTRIES
 A371 AMPCO
 A369 AMPCO METAL INC.
 A370 AMPEREX ELECTRONIC CORP.
 A375 AMPEX CORP.
 A380 AMPHENOL
 A374 AMPROBE INSTRUMENT DIVISION
 A379 ANSCOR
 A359 ANTEX INDUSTRIAL SUPPLY CO, INC.
 A361 ANTEX SUPPLY CO.
 A381 ANTRACK, INC.
 A398 ANTRON CORP
 A383 AN-TECH. CORPORATION
 A386 ANACONDA AMARLITE PRODUCTS
 A384 ANACONDA AMERICAN BRASS CO.
 A388 ANACONDA METAL HOSE CO.
 A385 ANACONDA WIRE AND CABLE CO.
 A454 ANACONDA-ERICSSON CORP (FRMLY A385)
 A324 ANALOG DEVICES INC
 A389 ANALOGIC

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A342	ANALYSIS & MEASUREMENT SVSS	A470	AQUA CHEM, INC.
A387	ANAMET LABORATORIES	A559	AQUA ENGINEERING CO INC
A390	ANCHOR ALLOYS INC.	A466	AQUA-HEC INC.
A392	ANCHOR EQUIPMENT CO.	A464	AQUADYNE - DIV OF MOTONCO INC.
A394	ANCHOR PACKING CO.	A459	AQUALITY ASSOCIATES, INC.
A343	ANCHOR POST PRODS INC	A468	AQUAMATIC
A395	ANCHOR VALVE CO.	A473	ARAGON ENGINEERING CO.
A393	ANCHOR/DARLING INDUSTRIES (SEE D025)	A467	ARBANE ELECTRIC CO.
A391	ANCHOR/DARLING VALVE CO. (SEE D020)	A462	ARCH TECHNOLOGY CORP
A400	ANDALE CO	A463	ARCHITECTURAL IRON INC.
A396	ANDCO POWER INDUSTRIES INC.	A469	ARCHITECTURAL RESEARCH
A404	ANDERSON BRASS WORKS INC.	A453	ARCHITECTURAL SALES (LENSING WHSL)
A405	ANDERSON ELEC CORP.	A553	ARCO MECHANICAL EQUIPMENT SALES
A406	ANDERSON EQUIPMENT COMPANY	A477	ARCOM INDUSTRIES
A414	ANDERSON IBEC	A471	ARCOS CORPORATION
A378	ANDERSON IND SUP	A562	ARDILLO CORP
A416	ANDERSON SUPPLY CO., INC.	A444	AREA SHEET METAL INC
A410	ANDERSON, C. J.	A448	AREATA PUMP & EQUIP CO
A415	ANDERSON, GREENWOOD & CO.	A461	ARGA CONTROLS
A298	ANDERSON, K.R. CO INC	A476	ARGO INTERNATIONAL CORP.
A417	ANDERSON, V. D.	A474	ARGONNE NATIONAL LAB
A331	ANDERSON, W.E. INC	A475	ARI INDUSTRIES, INC.
A420	ANDONIAN CRYOGENICS INC.	A478	ARIZONA GEAR
A422	ANDREWS CORPORATION	A349	ARIZONA PUBLIC SERVICE CO
A598	ANEMOSTAT PRODUCTS	A537	ARK ELECTRONIC PRODUCTS INC
A423	ANGENIEUX	A472	ARKANSAS POWER & LIGHT COMPANY
A425	ANISTICS INC.	A482	ARLINGTON STRUCTURAL STEEL COMPANY
A429	ANIXTER BROS INC (X-REF A424)	A479	ARMCO METAL PRODUCTS CORPORATION
A424	ANIXTER POWER SYSTEMS DIVISION	A480	ARMCO STEEL CORP.
A426	ANNEX RAILROAD BUILDERS	A481	ARMCO SYSTEMS CONTRACTING
A427	ANNIN CO.	A488	ARMOR
A428	ANSCO, INC.	A489	ARMOR ELEVATOR COMPANY, INC.
A430	ANSUL CHEMICAL	A483	ARMSTRONG BLUMM
A438	APACHE BLDG PRODS CO	A484	ARMSTRONG CONTRACTING & SUPPLY CORP.
A433	APCO VALVE & PREMAR CO.	A486	ARMSTRONG CORK COMPANY
A434	API INC.	A487	ARMSTRONG HUMIDIFIERS
A436	API INDUSTRIAL CONTROLLERS	A485	ARMSTRONG MACHINE WORKS
A435	API INSTRU CO.	A332	ARMSTRONG PUMPS INC
A437	APPARATUS SERVICE CO.	A451	ASO CORP, THE
A440	APPLETON	A457	AROMCO INDUSTRIES, INC.
A443	APPLIANCE BUILDING CO., INC.	A399	ARRO-MARK CO INC
A531	APPLICATIONS ENGG CORP	A452	ARROW ELECTRONICS
A444	APPLIED BIOLOGY INC.	A418	ARROW GEAR CO
A445	APPLIED DYNAMICS, INC.	A522	ARROW PNEUMATICS
A447	APPLIED ENG CO.	A491	ARROW TANK & ENGINEERING CO.
A450	APPLIED HEALTH PHYSICS, INC.	A494	ARROW UNITED INDUSTRY, INC.
A455	APPLIED NUCLEONICS COMPANY, INC.	A492	ARROW, HART & HEGEMAN
A456	APPLIED PHYSICAL TECHNOLOGY	A490	ARROWHEAD
A460	APPLIED RADIATION CORP.	A493	ART-O-LITE (BWB INTERPRISES)
A465	APPLIED SYSTEMS CORP.	A458	ARTCREST PRODUCTS CO., INC.
A419	APPLIED TEST SYSTEMS INC	A446	ARTHUR INDUSTRIES INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A495	ARTISAN INDUSTRIES INC.	A560	ATOMERGIC CHEMETALS CO.
A496	ARTI, E.G., INC.	A565	ATOMIC DEVELOPMENT CORP.
A498	ASBESTOS AND MAGNESIA MATERIALS CO.	A578	ATOMIC IND INC
A519	ASC HPG CO	A579	ATOMIC INDUSTRIAL FORUM INC.
A499	ASCO VALVES	A570	ATOMIC POWER DEVELOPMENT ASSOC. INC.
A500	ASEA ELECTRIC, INC.	A575	ATOMIC PRODUCTS CORP.
A497	ASEO VALVE	A580	ATOMIC INTERNATIONAL
A503	ASHBROOK CORPORATION	A585	ATWOOD & MORRILL CO., INC.
A501	ASHCROFT GAUGE	A583	AUBURN STEEL CO INC
A502	ASHCROFT SWITCH	A586	AUCOIN ELECTRIC SUPPLY
A517	ASHDOD ELECTRO-CONTROLS LIMITED	A584	AUCOIN-MILLER ELECTRIC SUPPLY
A527	ASHLAND CHEMICAL CO	A587	AUL INSTRUMENTS
A504	ASHLAND PETROLEUM CO.	A581	AUMA ACTUATORS, INC.
A518	ASHLAND VAULT, INC.	A594	AURORA PRECAST CONCRETE INC.
A505	ASSEMBLY PRODUCTS INC.	A590	AURORA PUMP
A511	ASSOCIATE RESEARCH INC.	A588	AUSTIN ASSOCIATES INC.
A507	ASSOCIATED CONTROL EQUIPMENT	A591	AUSTIN BRIDGE COMPANY
A439	ASSOCIATED FLOW CONTROLS INC	A589	AUSTIN BUILDING
A506	ASSOCIATED INSTRUMENTS	A596	AUSTIN METER INC
A508	ASSOCIATED INSULATION	A449	AUSTIN POWER INC
A509	ASSOCIATED MACHINE CO.	A592	AUSTING STEEL CO, INC.
A529	ASSOCIATED MECHANICAL SVSS	A593	AUTEC SYSTEMS INC.
A510	ASSOCIATED PIPING & ENGINEERING CORP.	A595	AUTO CONTROL
A516	ASSOCIATED PROCESS CONTROLS	A600	AUTO ELECTRIC
A513	ASSOCIATED PRODUCTS CONTROL	A615	AUTOCALL
A512	ASSOCIATED SPRING CORP.	A620	AUTOCLAVE ENGINEERS, INC.
A523	ASSOCIATED TECHNOLOGIES INC	A625	AUTOCON INDUSTRIES
A514	ASSOCIATED WELDING SUPPLY INC.	A607	AUTOMATED HANDLING SYSTEMS, INC.
A515	ASTRO INDUSTRIES, INC.	A626	AUTOMATIC CONTROL CO.
A520	ASTRO-ARC CO.	A608	AUTOMATIC FILTER SYSTEMS, INC.
A521	ASTROPHYSICS RESEARCH CORP.	A627	AUTOMATIC HANDLING SYSTEMS
A525	ATCOR, INC.	A629	AUTOMATIC INDUSTRIES INC.
A532	ATEC, INC.	A630	AUTOMATIC MANUFACTURING CO.
A533	ATHENA CONTROL	A605	AUTOMATIC SPRINKLER CORPORATION
A524	ATHEY PROD CORP (KOLMAN)	A610	AUTOMATIC SWITCH COMPANY (ASCO)
A534	ATKINSON, GUY F. CORP.	A612	AUTOMATIC TEMPERATURE CONTROLS
A535	ATKOMATIC VALVE CO., INC.	A606	AUTOMATIC TERMINAL INFORMATION SYSTEM INC.
A538	ATLANTA ENGINEERING CO.	A611	AUTOMATIC TIMING AND CONTROL INC.
A582	ATLANTIC STEEL CO	A613	AUTOMATIC VALVE COMPANY
A540	ATLAS CAR & MANUFACTURING CO., THE	A641	AUTOMATION DISPLAYS INC
A544	ATLAS COPCO INC.	A628	AUTOMATION ENGG CO INC
A545	ATLAS CORP.	A640	AUTOMATION INDUSTRIES INC.
A547	ATLAS DOOR CORPORATION	A644	AUTOMATION MFG & SERVICE INC.
A546	ATLAS DRYWALL	A645	AUTOMATION PRODUCTS, INC.
A549	ATLAS FOUNDRY AND MACHINE CO	A650	AUTOMATION/CONAM
A550	ATLAS INDUSTRIAL MANUFACTURING COMPANY	A268	AUTOTRON, INC.
A551	ATLAS INDUSTRIES	A655	AUTOVENT FAN
A528	ATLAS METAL PROD CO INC	A656	AUTOWEIGH INC.
A552	ATLAS VALVE	A284	AVC SPECIALIST INC
A555	ATMOSPHERIC SCIENCES, INC.	A660	AVCO CORP.-TULSA OPERATION
A557	ATOMATIC MANUFACTURING CO.	A659	AVEL CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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A661	AVERY, P. E. CORPORATION	B114	BALCO INC
A662	AVTEK CORPORATION	B052	BALDAR
A664	AWC TEXAS INC.	B060	BALDOR ELECTRIC
A663	AWISCO CORPORATION	B062	BALDWIN - LIMA - HAMILTON CORP.
A665	AXIAL CORP.	B054	BALDWIN ASSOCIATES
A666	AXIOM CORP.	B051	BALDWIN COMPANY
A670	AYCOCK, INC.	B044	BALDWIN FILTERS CO.
A671	AYDIN MONITOR SYSTEMS	B061	BALDWIN ROVE & SONS, INC.
A680	AICO MECHANICAL CONTRACTORS INC.	B058	BALFOUR ROLLING STEEL DOORS
B002	B & B BUILDING SYSTEMS INC.	B070	BALKSDALE VALVE COMPANY
B003	B & B ENGINEERING, INC.	B022	BALL CORP
B004	B & B INSTRUMENTS	B049	BALL MANUFACTURING, INC.
B001	B & B INSULATION INC.	B107	BALMAC INC
B016	B & G MFG CO	B043	BALSBAUGH INC.
B006	B & W ST. PETERSBURG ENGINEERING	B059	BALSBAUGH LABORATORIES INC.
B113	B&K INSTRUMENTS INC	B104	BALSTON, INC. (BALSTON FILTER PRODUCTS)
B009	B-D-R ENGINEERING CORP.	B012	BALTIMORE AIRCOIL CO INC
B005	B-W CONTROLLER	B063	BALTIMORE GAS & ELECTRIC COMPANY
B327	B. M. COMPANY	B091	BANE NELSON, INC.
B011	B.H. IND	B106	BANKS ENGINEERING COMPANY, INC.
B008	B/W CONTROLS INC.	B053	BANNER IRON WORKS
B010	BABCOCK & WILCOX CANADA LTD.	B023	BAR-BROOK MFG DIV
B015	BABCOCK & WILCOX COMPANY	B067	BARBER MFG. COMPANY
B014	BABCOCK & WILCOX POWER GENERATION	B064	BARBER, W. H., CHEMICAL CO.
B020	BABCOCK & WILCOX TUBULAR PRODUCTS	B066	BARBER-COLMAN CO.
B025	BABCOCK ELECTRONICS CORP.	B068	BARBER-GREENE CO.
B007	BABCOCK-DAVIS ASSOCIATES, INC.	B071	BARCLAY WHOLESALE DIV
B030	BABCOCK-PERSTA	B117	BARCLY, ROBERT INC
B032	BACHARACH INSTRUMENT COMPANY	B078	BARD MFG COMPANY
B028	BACHMANN INDUSTRIES, INC.	B065	BARKER, JAMES J. CONSULTING SERVICE
B031	BACON & VAN BUSKIRK GLASS CO.	B069	BARKSDALE COMPANY
B033	BACON TANK & MFG CO.	B074	BARKSDALE CONTROLS DIV
B039	BADALL CO.	B072	BARMONT CORP.
B034	BADGER EXPANSION JOINT	B073	BARNANT CORP.
B035	BADGER METER CO.	B075	BARNEBEY-CHENEY
B112	BADGER-POWHATTEN	B026	BARNES ENGINEERING COMPANY
B036	BAGWELL COATINGS, INC.	B076	BARNES, JOHN, CORP.
B038	BAHNSON INDUSTRIAL AIR QUALITY DIV	B103	BARNES, W. F. & JOHN
B037	BAHNSON SERVICE CO.	B079	BARNSTEAD STILL & STERILIZER CO.
B042	BAILEY CONTROLS CO.	B089	BARNSTEAD SYBRON CORP.
B040	BAILEY INSTRUMENT CO., INC.	B084	BARR-SAUNDERS INC.
B045	BAILEY METER COMPANY	B077	BARRETT-HAENTJENS CO.
B047	BAILEY, CHARLES M., COMPANY	B082	BARRON INDUSTRIES
B048	BAILEY, WILLIAM, CO.	B083	BARRY BLOWER CO.
B050	BAIRD ATOMIC INC.	B081	BARTON INDUSTRIES
B055	BAKER CASTOR OIL CO.	B080	BARTON INSTRUMENT CO., DIV OF ITT
B128	BAKER FILTRATION CO	B097	BAS-TEX CORP.
B046	BAKER INSTITUTES INC.	B085	BASCO, INC.
B057	BAKER MFG CO.	B099	BASELINES INDUSTRIES, INC.
B056	BAKER, HUGH J. & CO.	B086	BASF WYANDOTE CORPORATION
B029	BAKER-HAMILTON DIV.	B087	BASIC ENGINEERS

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CODE	VENDOR NAME	CODE	VENDOR NAME
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B088	BASIC IN FLOW CO.	B176	BELLINGHAM SUPPLY
B090	BASIC TECHNOLOGY, INC.	B171	BELLOFRAM CORP
B093	BASLER ELECTRIC COMPANY	B179	BELLOWS INTERNATIONAL
B092	BASSICK	B177	BELLOWS-VALAIR
B096	BASTIAN BLESSING	B180	BELMONT IRON
B094	BATES & ROGERS CONSTRUCTION COMPANY	B181	BELMONT PACKING & RUBBER CO.
B095	BATES STEEL TRUSS	B185	BELMONT SMELTING & REFINING WORKS, INC.
B100	BATH IRON WORKS	B157	BELOIT PASSAVANT CORPORATION
B098	BATTELLE MEMORIAL INSTITUTE	B154	BELOIT POWER SYSTEMS
B102	BAUER BROTHERS CO.	B187	BEN BRUNDAGE CO.
B101	BAUMAN H D & ASSOCIATES INC.	B190	BENDER MARRICK
B105	BAUSCH & LOMB, INC.	B195	BENDIX AVIATION
B017	BAXMAN GRAVEL CO INC	B200	BENDIX CORP., THE
B100	BAY CITY MACHINE	B202	BENDIX PROCESS INSTRUMENTS DIV
B110	BAY CITY TRACTION	B203	BENFIELD ELECTRIC
B018	BAY PNEUMATIC INC	B205	BENJAMIN ELSC MFG CO
B115	BAYLEY, WM.	B206	BENNETT INDUSTRIES, INC.
B116	BAYOX INC.	B207	BENRUS TECHN POWER
B120	BEACH-RUSS CO.	B208	BENTLEY NEVADA
B122	BEACON SUPPLY CO.	B210	BERGAN & PATTEPSON
B121	BEARD AND LA MAUVE	B211	BERGEN IRON & MNG COMPANY
B122	BEARD-GARNER	B212	BERGEN PIPE SUPPORT CORPORATION
B124	BEARD-YARDNER INC.	B209	BERGM-PATTERSON PIPE SUPPORT CORPORATION
B127	BEARING HEADQUARTERS INC	B214	BERKE CONCRETE ASSESSORIES INC.
B126	BEAUMONT BIRCH CO.	B215	BERKELEY NUCLEONICS CORP.
B125	BEAUMONT MFG	B216	BERKELEY STEEL CONSTRUCTION CO.
B130	BECHTEL CORP.	B213	BERKLEY PUMP CO.
B134	BECK & CORBITT CO.	B217	BERLIN CHAPMAN
B136	BECK , HAROLD & SONS	B218	BERLIN STEEL CO.
B135	BECKMAN INSTRUMENTS, INC.	B224	BERNARD'S BUSINESS INTERIORS
B133	BECKMAN/BERKLEY	B221	BZRND-WALLACE & ASSOCIATES
B137	BEEBE BROS INC	B219	BERT EXELROD & CO.
B139	BEEHIVE INTERNATIONAL	B222	BERTAN ASSOCIATION INC.
B141	BETLE/JUSTIN PLASTICS INC	B223	BERTHOLD, GUSS--ELECTRIC CO.
B138	BEEVER, ALBERT JR. CO.	B220	BERTRAM CO, H.P.
B140	BEFFEL LIGHTING	B225	BEST ELECTRO CONTROLS
B146	BELCHER-HOPPE ENGINEERING INC.	B230	BETA CORP.
B145	BELCO POLLUTION CONTROL CORP.	B229	BETA PRODUCTS INC.
B147	BELDEN CORPORATION	B236	BETE FOG NOZZLE INC
B155	BELFAB, INC.	B231	BETHEA CO. INC.
B150	BELFAB/BAILEY METER CO.	B228	BETHEA NATIONAL CORP
B156	BELFORT INSTRUMENT CO.	B233	BETHLEHEM FABRICATORS, INC.
B178	BELILOVE CO.	B232	BETHLEHEM FOUNDRY AND MACHINE CO.
B160	BELL & GOSSETT	B235	BETHLEHEM STEEL
B165	BELL AND HOWELL	B237	BETTIS CORPORATION
B159	BELL BOTTOM FOUNDATION CO.	B241	BETTS SPRING CO INC
B161	BELL CHEMICAL CO.	B238	BEVCO ENGINEERING, INC.
B163	BELL INDUSTRIES	B234	BEVERLY STEEL CORP
B170	BELL, INC, F. W.	B257	BI RA SYSTEMS INC
B162	BELL, J. P.	B240	BIACH INDUSTRIES, INC.
B175	BELLEFONTAINE BRIDGE	B245	BICRON CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
B118	BIDDLE INSTRUMENTS	B321	BLOCK IRON & SUPPLY CO., DIV
B244	BIDDLE, JAMES G. CO.	B326	BLOUNT BROTHERS CONSTRUCTION COMPANY
B239	BIEDERMAN, A. INC	B319	BLUE RIVER ALLOY INC
B250	BIF	B328	BLUE, JOHN CD DIVISION-SUBSCRIPTION TV
B249	BIG FOUR MFG INC.	B329	BLUM CRAFT OF PITTSBURGH
B251	BIG FOUR WELDING AND EQUIPMENT	B330	BLUME, JOHN A. & ASSOC,
B246	BIG GENIE CORPORATION	B318	BMK SVSS INC
B252	BIG JOE INDUSTRIAL TOOL CORP.	B332	BOARDMAN CO
B243	BIG JOE MANUFACTURING CO.	B331	BOBBE & COMPANY
B248	BIG THREE INDUSTRIES	B333	BOBRICK TECHNICAL DATA
B247	BIGGS CRANE	B339	BOBRICK WASHROOM EQUIPMENT, INC.
B242	BIGGS DRAYAGE CO.	B353	BOCK IND
B253	BILCO COMPANY, THE	B334	BOCK LAUNDRY MACHINE CO.
B256	BILT RITE STEEL BUCK CORP.	B337	BODENBENDER & SHAWLER INC.
B254	BIRMINGS CONSTRUCTION COMPANY	B335	BODENDIECK TOOL
B255	BINDICATOR CORP.	B338	BODINE ELECTRIC CO.
B260	BINGHAM PUMP CO.	B341	BOING CO., THE
B265	BINGHAM-WILLAMETTE CO.	B340	BOING COMPUTER SERVICES, INC.
B267	BINKLEY COMPANY, THE	B342	BOEN TOOL & DYE CO
B271	BIO MARINE INDUSTRIES	B352	BOGART & CARLOUGH CO
B270	BIO-RAD LABORATORIES	B344	BOM BROTHERS CONSTRUCTION COMPANY
B275	BIONUCLEAR	B343	BORN ALUMINUM-BRASS CO.
B281	BIOSPHERICS INC	B358	BOLAND ELECTRIC SUPPLY INC
B276	BIRD ELECTRONICS CORP.	B336	BOLDT, O.J. CONSTRUCTION CO.
B277	BIRD MACHINE	B346	BOLT, BERANEK & NEWMANN, INC.
B278	BIRMINGHAM CLAY PRODUCTS CO.	B359	BOLIFORM PRODUCTS
B279	BIRMINGHAM ORNAMENTAL IRON	B345	BONNEY FORGE DIV.
B119	BISHOP ELECTRIC	B348	BORCHART, R. C., ENGINEERING & SUPPLY, INC.
B019	BISHOP TUBE CO	B349	BORDEN COMPANY
B280	BISHOPRIC PRODUCTS CO., THE	B351	BORDEN METAL PRODUCTS COMPANY
B013	BJ-HUGHES INC (HUGHES TOOL CO)	B350	BORG-WARNER CORP.
B283	BLACK & DECKER	B347	BORGES & MAHONEY, INC.
B285	BLACK & VEATCH CONSULTING ENGINEERS	B355	BORIDE PRODUCTS, INC.
B295	BLACK, SIVALLS & BRYSON, INC.	B356	BORRMAN, R.E. STEEL CO.
B290	BLACK-SIVALLS-BRYSON	B361	BOSCO CO.
B305	BLACKBURN, INC., P. W.	B357	BOSTON EDISON COMPANY
B300	BLACKBURN-JASPER CORP.	B360	BOSTON GEAR WORKS
B310	BLACKMER PUMP	B365	BOSTON INSULATED WIRE & CABLE CO.
B024	BLACKMORE & GLUNT INC	B367	BOSTON METAL DOOR CO., INC.
B312	BLACKSTONE CORPORATION	B368	BOSTON PIPE & FITTINGS, INC.
B021	BLAIN-MARTIN CO INC	B369	BOSTROM-BERGEN METAL PRODUCTS
B313	BLANCHARD CO.	B362	BOTTNER-SCHILDE-HAAS
B315	BLAN-KNOX CHEMICAL PLANTS, INC.	B371	BOURNS CO.
B314	BLAN-KNOX COMPANY	B374	BOUSER-MORNER TESTING LABS
B316	BLAN-KNOX EQUIPMENT, INC.	B370	BOVRE & CRAIL CONSTRUCTION CO.
B317	BLAIER, J.J. CONSTRUCTION COMPANY	B372	BOWEN CO., THE
B320	BLH ELECTRONICS, INC.	B378	BOWLERN, J.P. COMPANY
B325	BLICKMAN, INC., S.	B373	BOWMAN CONSTRUCTION PRODUCTS
B322	BLISS & LAUGHLIN STEEL	B363	BOWMAN, J.H. COMPANY, INC.
B323	BLISS COMPANY	B364	BOWMAN, JOHN W. & ASSOCIATES
B324	BLNS M ELECTRIC CO.	B375	BOWSER IND

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CODE	VENDOR NAME	CODE	VENDOR NAME
B366	BOYCE MACHINERY CORP.	B027	BROOKLYN THERMOMETER COMPANY, INC.
B377	BRAD & MC CLUM-PACE	B423	BROOKMAN CO INC
B398	BRAD FOOTE GEAR WKS INC	B435	BROOKS & PERKINS, INC.
B380	BRADLEY CORPORATION	B440	BROOKS INSTRUMENTS COMPANY
B379	BRADLEY IRON WORKS, INC.	B436	BROOKS PRODUCTS INC.
B382	BRADLEY, H.R., CO.	B445	BROOKS ROTAMETER
B376	BRADY CO.	B446	BROWN & BROWN MACHINE CO.
B397	BRAGAR, NORMAN PROD CO INC	B468	BROWN & LAMBRECHT
B385	BRAM METALLURGICAL-CHEMICAL CO.	B056	BROWN & LOVE ELECTRIC CO.
B381	BRAMAN-DOW CO.	B450	BROWN & ROOT INC.
B386	BRAND INDUSTRIAL SERVICES, INC.	B453	BROWN & SHARPE
B387	BRAND INSULATION INC.	B455	BROWN SOVERI
B389	BRAND REX CO.	B460	BROWN FINTUBE CO.
B358	BRANDELES, H. J. CORP	B465	BROWN INSTRUMENT DIV
B383	BRANDEN STEEL CORP.	B470	BROWN MINNEAPOLIS TANK & FABRICATING CO.
B384	BRANDT INDUSTRIES, INC.	B457	BROWN, D.P., AND COMPANY
B390	BRANDYWYNE INDUSTRIES, INC.	B475	BROWN, DAYTON T. INC.
B391	BRANT CONSTRUCTION COMPANY	B448	BROWN, JOHN S. CO.
B392	BRASCH MANUFACTURING CO., INC.	B477	BROWNE-DAVIES ELECTRONICS CORP.
B395	BRAUN & CO., C.F.	B480	BROWNE-MORSE
B400	BRAUNLICH-ROESSLER COMPANY	B481	BROWNING CO.
B041	BRAWNER PAPER COMPANY	B476	BROWNWARD METALS CORP.
B396	BREARD-GARDNER INC.	B485	BRUCE GN DIESEL, INC.
B111	BREDA TERMOECCANIC S.P.A.	B482	BRUCKER, H., CO.
B402	BRELIANT COMPANY	B478	BRULE, C. E. & E. INC. (INCINERATORS)
B393	BRENEW MANUFACTURING COMPANY, INC.	B483	BRUNNER MFG COMPANY
B401	BRENCO INC.	B486	BRUSH WELLMAN INC.
B403	BREWER ENGINEERING LABORATORIES, INC.	B484	BRYANT ELECTRIC
B406	BREWER-TITCHENER CORP.	B487	BS & B SAFETY CO.
B404	BRICE ENGINEERING CO, INC.	B491	BSAF WYANDOTE
B405	BRICE-HAYES CO.	B488	BTC, INC.
B407	BRIDGEPORT BRASS CO.	B490	BTU ENGINEERING CORP..
B409	BRIDGEPORT MACHINES-DIV OF TEXTWON INC.	B503	BUBLITS INC
B408	BRIDGEPORT TESTING	B495	BUCHANAN STEEL PRODUCTS
B410	BRIDGES ELEC	B449	BUD ELECTRONIC COMPONENTS
B412	BRIGGS ELECTRIC SWITCHBOARD	B499	BUD ELECTRONIC COMPONENTS
B413	BRIGGS FILTRATION	B500	BUDA DIV
B411	BRIGGS WEAVER INDUSTRIAL SUPPLY	B505	BUEHLER CORP., THE
B414	BRIGHTON CORPORATION	B504	BUEHLER TANK & WELDING WORKS
B418	BRILL ELECTRONICS PRODUCTS	B511	BUELL EMISSION CONTROL DIV
B416	BRISCOE MFG CO.	B510	BUELL ENGINEERING CO.
B419	BRISKY ASSOCIATES, INC.	B513	BUFFALO ELECTRIC CO.
B415	BRISTOL	B515	BUFFALO FORGE COMPANY
B426	BRISTOL EMGG CO	B516	BUFFALO METER CO.
B417	BRISTOL STEEL & IRON WORKS INC.	B517	BUFFALO PUMPS
B421	BRISTOL-BABCOCK INSTRUMENTS (DIV ACCO IND)	B520	BUFFALO TANKS
B422	BRITISH STEEL CORP INC	B522	BUFFALOW'S IND'L REFRIG'M SERVICE
B394	BROADLINE CORP.	B501	BUILDERS METAL SUP INC
B420	BROBECK & ASSOCIATES, WILLIAM M.	B526	BUILDERS MFG COMPANY
B425	BROKAW, R.T.	B530	BUILDERS, ROY L.
B430	BROOKLINE INSTRUMENT CO., INC.	B525	BUILDERS-PROVIDENCE

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CODE	VENDOR NAME	CODE	VENDOR NAME
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B533	BUILDING FASTENERS & TOOL CO.	C267	C.H.C. FABRICATION CORPORATION
B532	BUILDING FASTENERS INC.	C004	C.S.C. INC.
B534	BULK SYSTEMS	C010	C.V.I.
B536	BULLARD, E. D. CO	C806	CABELL ELECTRIC CO.
B535	BULLDOG BOLT	C022	CABLE KING
B540	BULLDOG ELEC PROD DIV	C021	CABOT CHEMTROL
B539	BULTEMA DOCK & DREDGE COMPANY	C024	CADDY CO.
B541	BUNSTAD, WOOLFORD & RILEY	C025	CADILLAC MACHINE
B546	BUNCK CORPORATION, THE	C029	CAISSON CORPORATION
B542	BUNKER HILL	C028	CAJON CO.
B544	BUNKER RAMO CORP.	C043	CAL PACIFIC FABRICATING CO.
B543	BUNHELL CO, J.H.	C030	CALATOMIC, INC.
B545	BUNTING, BRASS & BRONZE CO.	C049	CALAVAR CORP
B550	BURGESE BATTERY	C023	CALCON
B555	BURGESS INDUSTRIES	C032	CALCOR SPACE FACILITY
B560	BURGESS-MANNING	C037	CALDWELL ENGINEERING COMPANY
B559	BURKE CO., THE	C033	CALGO CORP
B561	BURKE CONCRETE ACCESSORIES, INC.	C019	CALIFORNIA ALLOY CO.
B564	BURKS PUMPS	C031	CALIFORNIA BIONUCLEAR CORP.
B562	BURLING	C018	CALIFORNIA ELECTRIC SUPPLY CO.
B563	BURLING INSTRUMENT CO.	C027	CALIFORNIA FILTER - CALFICO
B565	BURNDY CORP.	C034	CALIFORNIA INSTRUMENT CO.
B566	BURNER MANAGEMENT CO.	C016	CALIFORNIA POLYTECHNIC
B567	BURNS & NOVIA	C092	CALIFORNIA SCREW
B570	BURNS & ROE, INC.	C017	CALIFORNIA TANK & MFG CO
B571	BURNS ELECTRONIC SECURITY SERVICE	C051	CALIFORNIA TOOL & MACHINE WORKS
B572	BURNS ENGINEERING	C036	CALIMATIC
B573	BURR BROWN	C132	CALISLE TIRE & RUBBER CO.
B576	BURREN TRANSFER	C026	CALMEC
B568	BURT MFG CO.	C042	CALOCERINO & SPINA
B577	BURTON	C046	CALPICO INC.
B574	BUSCH COMPANY	C035	CALUMET & HELCA CORP.
B579	BUSHMAN EQUIPMENT CO.	C041	CALUMET CONSTRUCTION CORP.
B569	BUSSHANN MFG (DIV OF MCGRAW-EDISON)	C038	CALUMET FLEXICORE CORPORATION
B575	BUTLER & LAND INC.	C071	CALUMET STEEL CO
B502	BUTERN, W.J. ROOFING & SHT METAL INC	C039	CALUMET TRUCKING COMPANY
B581	BUXTON MFG CO.	C048	CALVERT COMPANY INC., THE
B578	BYITT CRINNEL COMPANY	C044	CAN INDUSTRIES, INC.
B506	BYRNES, E.F. SALES CORP	C045	CAMBRIDGE FILTER CORP.
B540	BYRON JACKSON PUMPS, INC.	C047	CAMBRIDGE INSTRUMENT CO.
C001	C & C OXYGEN CO	C050	CAMBRIDGE NUCLEAR RADIOPHARMACEUTICAL CORP
C173	C & D BATTERIES, DIV OF ELTRA CORP.	C052	CAMBRIDGE THERMONIC CORP
C231	C AND H COMBUSTION	C055	CANCO FITTINGS CO.
C015	C-COR ELECTRONICS, INC.	C011	CANCO INC
C174	C-E AIR PRE-HEATER	C057	CAMERADIO COMPANY
C020	C-E IN-VAL-CO	C060	CAMERON IRON WORKS, INC.
C002	C. H. CONTROL	C062	CAMPLEX CONTROL
C005	C. J. ENTERPRISES	C063	CAMPBELL CONSTRUCTION
C006	C. U. SERVICES	C061	CAMPBELL, BARBER, LAMBETH & ASSOC
C003	C.B.P. ENGINEERING CORP.	C054	CAMPBELL, THOMAS J. CO
C177	C.E. PROCESS EQUIPMENT	C078	CAN & SAUL STEEL CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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C069	CANADIAN BLOWER & FORGE	C102	CARPARELLI BROS INC
C068	CANADIAN CONTROLLERS INC	C146	CARPENTER RIGGING & SUP CO
C064	CANADIAN GENERAL ELECTRIC CO., LTD.	C141	CARPENTER STEEL
C067	CANADIAN INGERSOLL-RAND, LTD.	C140	CARPENTER TECHNOLOGY CORP.
C066	CANADIAN OHIO BRASS CO. LTD.	C142	CARPENTER WELDING & MACHINE CO.
C065	CANADIAN STEEL FOUNDRIES	C143	CARR CO.
C070	CANBEREA INDUSTRIES, INC.	C145	CARRICK ENGINEERING
C072	CANDLER-RUSCHE, INC.	C147	CARRIER AIR CONDITIONING CO.
C075	CANNON ELECTRIC - ITT	C013	CARRIER BOCK CO
C080	CANNON TOOL CO.	C150	CARRIER CORP.
C079	CANON, OLIVER B. SONS. THE	C151	CARRIER MFG. CO., YMC.
C081	CANONIC CONSTRUCTION COMPANY	C053	CARRIER OEHLER
C084	CANTEX INDUSTRIES	C154	CARRON & COMPANY
C083	CANTON STEEL FABRICATORS	C153	CARTER AIR CONDITIONING COMPANY
C082	CAPE ANN TOOL CO.	C155	CARTER MOTOR CO.
C085	CAPINTEC, INC.	C152	CARTER-DAY COMPANY
C091	CAPITAL CITY FENCE CO., INC.	C157	CARTER-WATERS CORP.
C087	CAPITAL CONTROLS CO.	C158	CARVER PUMP COMPANY
C086	CAPITAL FIRE EQUIPMENT CO.	C163	CASALE IND., INC.
C096	CAPITAL STEEL & IRON COMPANY	C160	CASCADE PUMP
C107	CAPITAL STEEL CORP-NEW YORK	C161	CASE INTERNATIONAL COMPANY
C106	CAPITAL STEEL CORP-OK CITY(CSI INTL)	C162	CASH, A. W.
C098	CAPITAL WESTWARD INC.	C164	CASHCO INC.
C089	CAPITOL CONCRETE PRODUCTS CO., INC.	C056	CASTLE CONTROLS INC
C088	CAPITOL LIGHT & SUPPLY CO.	C159	CUSTOM CONTROL PANEL
C090	CAPITOL MANUFACTURING CO.	C165	CATALYTIC INC.
C095	CAPITOL PIPE & STEEL PRODUCTS, INC.	C167	CATALYTIC PRODUCTS INTERNATIONAL
C074	CAPITOL STEEL INC	C168	CATCHING ENGINEER
C100	CAR-BEE INC	C170	CATERPILLAR TRACTOR
C103	CAR-MON PRODUCTS INC.	C166	CAVAGNACO, N. J.
C105	CARBOLINE CO.	C172	CBI NUCLEAR COMPANY
C110	CARBON STEEL PRODUCTS CORP	C007	CBM STEEL CORP
C115	CARBORUNDUM CO.	C176	CECO CORP (FORMERLY C175)
C114	CARBORUNDUM CO., THE (REFRACTORS DIV)	C175	CECO STEEL PROD CORP.
C120	CARD KEY SYSTEMS	C178	CEILCOTE CO., THE
C118	CARDINAL GLASS CO.	C169	CELANESE PIPING SYSS INC
C116	CARDINAL INDUSTRIAL	C180	CELESCO
C117	CARDINAL SCALE CO.	C179	CELLO INDUSTRIES INC.
C119	CARDINAL INDUSTRIES	C181	CELOTEX CORPORATION, THE
C125	CARDOX CORP.	C182	CENTER - LINE INC.
C130	CARGOCAIRE ENGINEERING CORP.	C199	CENTRAL COAST LABORATORIES
C133	CARLE INSTRUMENTES, INC.	C209	CENTRAL CONTROLS CO INC
C134	CARLON PRODUCTS	C197	CENTRAL ENGINEERING & SUPPLY CO.
C135	CARLSON, INC., G. O.	C186	CENTRAL ENGINEERING CONSTRUCTION COMPANY
C008	CARLYLE COMPRESSOR CO	C206	CENTRAL ILLINOIS LIGHT COMPANY
C137	CARNAN INDUSTRIES, INC.	C203	CENTRAL ILLINOIS PUBLIC SERVICE COMPANY
C144	CARNES CO. DIV (WEHR CONSTRUCTION)	C211	CENTRAL INDIANA HARDWARE CO INC
C136	CARNES CORP.	C188	CENTRAL IRON MANUFACTURING
C131	CARNEY & CO. INC.	C201	CENTRAL LOUISIANA ELECTRIC COMPANY
C139	CAROLINA INDUSTRIAL PIPING	C184	CENTRAL PIPE & FITTING
C138	CAROLINA POWER & LIGHT COMPANY	C204	CENTRAL POWER & LIGHT COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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C185	CENTRAL RESEARCH LABORATORIES, INC.	C263	CHELSEA FANS & BLOWERS
C190	CENTRAL SCIENTIFIC CO.	C270	CHEM-NUCLEAR SYSTEMS, INC.
C191	CENTRAL STATES PIPE	C275	CHEM-TROL CORP.
C192	CENTRAL STEEL AND WIRE	C280	CHEMAPEC, INC.
C197	CENTRAL STEEL COMPANY	C268	CHEMELEX CORP.
C207	CENTRAL SUPPLY CO., INC.	C285	CHEMETRON CORP.
C193	CENTRAL SWITCHBOARD CORPORATION	C286	CHEMETRON FIRE SYSTEMS
C196	CENTRAL TEXAS IRON WORKS	C273	CHEMGROUT INC.
C189	CENTRAL WIRE & IRON WORKS	C277	CHEMICAL AND POWER PRODUCTS, INC.
C183	CENTRALAB	J019	CHEMICAL FRED CONTROL SYSTEMS
C194	CENTRI MASTER	C290	CHEMICAL SEPARATIONS CORP.
C195	CENTRIFIX DIV	C269	CHEMINEER INC.
C198	CENTRONICS CORP.	C295	CHEMIQUIP PRODUCTS CO., INC.
C200	CENTURY ELECTRIC	C297	CHEMPRO SEALOL
C208	CENTURY FENCE CO	C300	CHEMPUMP CORP
C202	CENTURY INSTRUMENTS	C305	CHEMTREE CORP.
C205	CERADYNE, INC.	C281	CHEMTROL CORPORATION
C210	CERAMASEAL, INC.	C287	CHEMNE CONTRACTING COMPANY
C215	CERAMCO INC., CHEMISTS	C296	CHESAPEAKE & OHIO RAILROAD
C217	CERAMIC COOLING TOWER CO.	C288	CHESTER MOIST DIV (MONOGRAM IND INC)
C220	CERAMTEC INDUSTRIES, INC.	C306	CHESTERTON PACKING & SEALS
C222	CERRO WIRE & CABLE CO.	C352	CHESTERTON, A.W. CO
C223	CERTAIN-TEED SAINT GOBAIN INSULATING CO.	C291	CHEVRON USA, INC.
C224	CERTIFIED LABORATORIES, INC.	C292	CHICAGO & ILLINOIS MIDLAND RAILWAY COMPANY
C225	CERTIFIED RADIATION INSTRUMENT CO.	C307	CHICAGO BLOWER CORP.
C227	CF & I STEEL CORP.	C299	CHICAGO BOILER CO.
C230	CHAIN BELT	C310	CHICAGO BRIDGE AND IRON COMPANY
C077	CHALCO ENGG CORP	C301	CHICAGO BULLIT PROOF EQUIP CO.
C234	CHALLENGE EQUIPMENT CORP.	C309	CHICAGO COMBUSTION AIR CORP.
C233	CHALLENGE-COOK BROS.	C212	CHICAGO CONVEYOR CORP
C232	CHALLENGER METAL FABRICATORS	C316	CHICAGO ELECTRIC COMPANY
C235	CHAMBERS, A. R. & SONS	C317	CHICAGO ELECTRIC SUPPLY
C238	CHAMPION BLOWER & FORGE CO. INC.	C294	CHICAGO FAUCET COMPANY
C239	CHAMPION HOIST COMPANY	C313	CHICAGO FITTING CORPORATION
C240	CHAMPION, INC.	C311	CHICAGO FLUID POWER
C245	CHANCE, A. B.	C314	CHICAGO FLY ASH
C250	CHANDLER ENGINEERING CORP.	C312	CHICAGO GUARANTEE COMPANY
C254	CHAPIN & CHAPIN, INC.	C315	CHICAGO HEATER CORP.
C253	CHAPIN-SANGS	C318	CHICAGO HEIGHTS STEEL
C256	CHAPMAN DIV OF CRANE CO.	C324	CHICAGO LOCK CO.
C255	CHAPMAN VALVE & MFG	C304	CHICAGO METALLIC CORP.
C252	CHAPPARRAL STEEL CO.	C322	CHICAGO MINIATURE CO.
C261	CHAPPLE COMPANY	C319	CHICAGO ORNAMENTAL IRON COMPANY
C293	CHARCOAL SVSS CORP	C321	CHICAGO PAINTING SERVICE
C257	CHASE BRASS AND COPPER CO.	C308	CHICAGO PNEUMATIC & TOOL CO.
C258	CHASE NUCLEAR DIVISION	C320	CHICAGO PUMP
C259	CHASE-SHAWMUT COMPANY	C323	CHICAGO STEEL TANK COMPANY
C171	CHATHODIC PROTECTION SERVICE	C325	CHICAGO SWBD MFG
C260	CHATILLON, JOHN & SONS	C326	CHICAGO TRANSPARENT, INC.
C265	CHATTANOOGA BOILER AND TANK CO.	C327	CHICAGO TUBE & IRON CO.
C266	CHECK-ALL-VALVE	C302	CHICAGO VIBRATOR PRODUCTS CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
C328	CHIKSAN TOOL COMPANY	C390	CLEVELAND PRECISION INDUSTRIES INC.
C330	CHISHOLM & MOORE MFG	C395	CLEVELAND SWITCHBOARD CO.
C331	CHOMTRON	C400	CLEVELAND TRAMRAIL
C349	CHRISTENSEN WOODWORK INC.	C405	CLEVELAND VIBRATORS
C334	CHRISTY PARK WORKS	C384	CLEVELAND-ARMSTRONG CO.
C329	CHROM ALLOY-AMERICAN CORP.	C012	CLIMATRONICS CORP
C058	CHROMALLOY MFG INC	C410	CLIMAX MOLYBDENUM CO. OF MICHIGAN
C332	CHROMALOX ELECTRIC HEAT	C415	CLIMET INSTRUMENTS CO.
C333	CHROMATICS CORP.	C417	CLONTE, J.M., ASSOC.
C335	CHRONETICS INC.	C418	CLOW CORP.
C076	CHRONO-LOG CORP	C419	CLOW WASTE TREATMENT DIV.
C298	CHRYSLER CORP.	C420	CLYDE IRON WORKS, INC.
C336	CINCINNATI AIR CONDITIONING COMPANY, THE	C059	CNA CONTROLS
C343	CINCINNATI FAN & VENTILATOR CO.	C014	CNS ELECTRONICS CORP
C337	CINCINNATI GAS & ELECTRIC COMPANY	C428	COAST COUNTIES GLASS INC
C344	CINCINNATI MILACRON CO.	C423	COAST ENGINEERING LAB
C303	CIPPEWA INDUSTRIAL SALES CORP.	C421	COAST INDUSTRIAL SUPPLY CO
C348	CIRCLE FREEWAY GLASS CO.	C093	COAST METAL CRAFT
C339	CIRCLE SEAL	C422	COAST WELDING SUPPLY, INC.
C341	CITY STEEL CORP.	C424	COATES ELECTRIC BOILER
C338	CIVES CORP.	C425	COBER ELECTRONICS INC.
C347	CIVES STEEL CO.	C430	COCHRAN CORP
C342	CLA VAL CO.	C435	COCHRAN ELECTRIC CO.
C340	CLARAGE FAN	C431	COCHRANE ENVIRONMENTAL SYSTEMS
C346	CLARK RELAYS CO.	C436	CODEL CONSTRUCTION COMPANY
C345	CLARE, C.P.	C434	CODEX BOOK INC.
C351	CLARIDGE PRODUCTS & EQUIPMENT, INC.	C437	CORN CO.
C350	CLARK AND WHEELER ENGINEERING, INC.	C427	COFFER CORP
C355	CLARK BROTHERS.	C426	COFFER LABS INC
C359	CLARK CONTROL INC.	C438	COFFIN TURBO PUMP
C360	CLARK CONTROLLER	C439	COGENAL INC.
C365	CLARK COOPER	C440	COGSWELL
C367	CLARK EQUIPMENT COMPANY	C456	COHERENT, INC.
C371	CLARK RELIANCE	C441	COHN ELECTRONICS DIV
C370	CLARK, FRED C.	C442	COHU ELECTRONICS
C101	CLAROSTAT MFG CO INC	C444	COKER PUMP & EQUIPMENT COMPANY
C374	CLAUSING CORP.	C445	COL-X CORP.
C373	CLAYTON AUTOMATIC VALVE CO.	C446	COLBY EQUIPMENT COMPANY
C372	CLAYTON MFG CO.	C443	COLDWELL-WILCOX CO.
C387	CLEAR-COM INTERCOM SYSTEM	C447	COLE ENGINEERING INC.
C375	CLEARING SMELTING CORP	C458	COLE-FLEX CORP.
C376	CLEAVER-BROOKS	C451	COLE-PALMER INSTRUMENT CO. (SEE C448)
C377	CLECO PNEUMATIC	C448	COLE-FARMER INSTRUMENT CO. (SEE C451)
C378	CLEBERMAN MACHINE TOOLS	C450	COLEMAN SYSTEMS
C380	CLEMENT ELECTRIC	C457	COLEMAN, J.E., CO.
C379	CLEMTX CORROSION & CONTROL EQUIP & SUPPLY	C449	COLEMAN, W. B.
C381	CLEMTX LTD.	C454	COLIN & ROBERTS
C382	CLEVELAND BEACON PRODUCTS	C452	COLLIER CONSTRUCTION CO.
C383	CLEVELAND CONTROLS INC.	C455	COLLINS & ASSOC., DON L.
C385	CLEVELAND CRAN & ENGG	C453	COLLYER INSULATED WIRE CO.
C386	CLEVELAND MIXER CORP.	C460	COLONIAL ELEC PROD

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CODE	VENDOR NAME	CODE	VENDOR NAME
C462	COLONIAL KOLINITE CO.	C097	CONDOR INTERNATIONAL
C463	COLONIAL MACHINE COMPANY	C517	CONE DRIVE DIVISION
C513	COLONIE CONSTRUCTION PROD INC	C519	CONERCAN
C464	COLONY INC	C523	CONN-TROLS INC.
C465	COLORADO RESEARCH CORP	C529	CONNECTICUT INVESTMENT CASTING CORP.
C466	COLORADO STATE UNIV ENGINEERING RESCH LAB	C526	CONNECTICUT PLUMBING
C470	COLT INDUSTRIES, INC.	C527	CONNECTICUT YANKEE ATOMIC POWER CO.
C475	COLTS PATENT FIRE ARMS	C514	CONNECTRON, INC.
C480	COLUMBIA ELECTRIC	C528	CONNOR ENG. CORPORATION
C484	COLUMBIA PIPE & SUPPLY CO.	C522	CONNORS STEEL CO
C485	COLUMBIA RESEARCH CORP.	C530	CONOFLOW CORP.
C073	COLUMBIA SPECIALTIES CO	C535	CONRAC CORP.
C479	COLUMBUS DIE TOOL & MACHINE COMPANY	C537	CONRY R. CONTRACTORS
C486	COLUMBUS TESTING LABORATORIES, INC.	C540	CONS ASHCROFT HANCOCK
C487	COMBINATION PUMP VALVE CO.	C545	CONS SAFETY VALVE DIV
C494	COMBS INDUSTRIES, INC.	C550	CONSECO
C490	COMBUSTION ENGINEERING, INC.	C541	CONSLER CORP
C491	COMBUSTION EQUIPMENT ASSOCIATION OF CANADA, LTD.	C551	CONSOER, TOMNSEND & ASSOCIATES
C492	COMET INC.	C557	CONSOLIDATED BAILING-MACHINE COMPANY
C493	COMFORT CONTROL	C555	CONSOLIDATED BALERS
C497	COMMANDER STEEL BUILDING SALES CO.	C556	CONSOLIDATED BOLT AND NUT COMPANY
C495	COMMERCIAL FILTERS CORPORATION	C558	CONSOLIDATED COMSTOCK COMPANY
C094	COMMERCIAL PLASTIC & SUPPLY	C560	CONSOLIDATED CONTROLS CORP.
C496	COMMERCIAL STAMPING & FORGING, INC.	C562	CONSOLIDATED EDISON COMPANY
C500	COMMONWEALTH ASSOCIATES INC.	C561	CONSOLIDATED ELECTRIC CO.
C502	COMMONWEALTH EDISON COMPANY	C559	CONSOLIDATED ELECTRICAL DISTRIBUTORS
C501	COMMONWEALTH ELECTRIC CO.	C563	CONSOLIDATED ELECTRODYNAMICS CORP.
C505	COMMUNICATION EQUIP	C565	CONSOLIDATED ENERGY SERVICES, INC.
C504	COMMUNICATIONS & CONTROL CO.	C564	CONSOLIDATED KINETICS CORP.
C509	COMPOSITE PRODUCTS INC.	C566	CONSOLIDATED LIGHTING CO.
C511	COMPRESSOR ENGINEERING CO.	C567	CONSOLIDATED SAFETY RELIEF VALVES
C506	COMPUDYNE CORP.	C53A	CONSOLIDATED SPECIALTY MFG.
C498	COMPUTER PRODUCTS, INC.	C568	CONSOLIDATED VALVE CORP.
C503	CONSIP CUSTOM LINE CORP.	C569	CONSOLIDATED X-RAY SERVICES CO.
C539	CONSIP DELPHI INC.	C570	CONST MACH
C507	CONSTOCK, L. K. , CO	C576	CONSTRUCTION ENGINEERING CONSULTING, INC.
C536	CON-RAD DIV U.S. INDUSTRIES	C572	CONSTRUCTION MANAGEMENT ORGANIZATION
C510	CONAM INSPECTION INC.	C574	CONSTRUCTION PRODUCTS CORP.
C515	CONAX CORP.	C573	CONSTRUCTION SPECIALITIES, INC.
C531	CONBRACO INDUSTRIES, INC.(CONSOL BRASS CO)	C552	CONSTRUCTION SUP & ERECTION INC
C516	CONCO ENGINEERING WORKS	C571	CONSULTING ENGINEERING SERVICES
C533	CONCRETE PIPE & PRODUCTS CORP	C575	CONSUMERS POWERS COMPANY
C508	CONCRETE PLANK COMPANY, INC.	C580	CONTAINER RESEARCH CORP.
C512	CONCRETE PRODS INC	C579	CONTAMINATION & CONTROL INC.
C712	CONCRETE SEALANTS INC	C581	CONTINENTAL AIR FILTERS
C522	CONCRETE TIE, INC.	C583	CONTINENTAL BEARING RESEARCH CORPORATION
C518	CONDE MILKING MACHINE COMPANY	C585	CONTINENTAL BOILER
C521	CONDE PUMP COMPANY	C586	CONTINENTAL CONCRETE PIPE CO.
C520	CONDEC CORP.	C582	CONTINENTAL CONVEYOR EQUIPMENT COMPANY
C524	CONDIT CONSTRUCTION PRODUCTS INC.	C594	CONTINENTAL DISC CORP.
C525	CONDIT WORKS, A-C MFG	C584	CONTINENTAL DRILLING CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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C588	CONTINENTAL ELECTRIC CO, INC.	C518	COOPER NUCLEAR STATION
C578	CONTINENTAL ELECTRIC SERVICE CORP.	C633	COOPER PENJAX
C587	CONTINENTAL EQUIP CO.	C604	COOPER VALVE COMPANY
C603	CONTINENTAL HELLER CORP	C634	COOPER-RESSEMER CO.
C591	CONTINENTAL MACHINES INC.	C622	COOPERS & LYBRAND
C589	CONTINENTAL MOTORS CORPORATION	C627	COPE, T. J.
C590	CONTINENTAL OIL CO.,	C553	COPELAND CORP
C577	CONTINENTAL PRODUCTS	C624	COPEB-DUICAN INC.
C714	CONTINENTAL PUMP CO	C635	COPEB-VULCAN, INC.
C593	CONTINENTAL SALES & ENGINEERING CO.	C432	COPPER & BRASS SALES INC
C592	CONTINENTAL STEEL CO.	C639	COPPER FITTINGS CO., INC.
C595	CONTINENTAL WIRE & CABLE CORP.	C698	COPPERWELD CORP (X-REF 0021)
C602	CONTINENTAL-FREMONT COMPANY	C636	COPPERWELD STEEL, INC.
C703	CONTRACT HARDWARE INC	C693	COPPERWELD TUBING GROUP
C597	CONTRACTING & MATERIALS CO.	C640	COPPUS ENGINEERING CORP.
C596	CONTRAVES-GOERE CO.	C673	CORBESCO INC.
C598	CONTROL ASSOCIATES, INC.	C656	CORBIN CO.
C599	CONTROL CHIEF CORPORATION	C659	CORCORAN, MATT
C600	CONTROL COMPONENTS	C642	CORDON INT'L CORP.
C605	CONTROL CORP.	C679	CORDOVA BOLT INC.
C610	CONTROL DATA CORP.	C696	CORKEN INTERNATIONAL CORP
C611	CONTROL DEVICES PACIFIC, INC.	C644	CORKEN PUMP CO.
C612	CONTROL DIVISION OF AMERACE	C661	CORNELL & UNDERHILL, INC.
C601	CONTROL EQUIPMENT COMPANY	C700	CORNELL IRON WORKS, INC.
C613	CONTROL HEADQUARTERS, INC.	C667	CORNER AND LADA CO. INC.
C616	CONTROL MASTERS INCORPORATED	C658	CORNING GLASS WORKS
C609	CONTROL POWER SYSS INC	C607	CORPORATE CONSULTNG & DEVLPMNT CO LTD
C615	CONTROL PRODUCTS CORPORATION	C662	CORR-TECH
C619	CONTROL PRODUCTS DIV (AMERACE CORP.)	C699	CORRECT-AIR CORP
C429	CONTROL SPECIALISTS INC	C643	CORROSIONEERING INC. - SARAN CENTURY
C614	CONTROL SPECIALITIES	C752	CORRUGATED ERECTION CO.
C620	CONTROL TECHNOLOGY CO., INC.	C710	CORSBY VALVE & GAGE CO.
C617	CONTROLLED AIR COMFORT CO.	C652	CORWIN & COMPANY, INC.
C623	CONTROLLED EQUIPMENT CO.	C645	CORY, CHARLES & SON
C621	CONTROLLED POWER CORP.	C650	COSHODYNE
C626	CONTROLOTRON	C713	COSSITT CONCRETE PRODUCTS
C625	CONTROLS FOR ENVIRONMENTAL POLLUTION, INC.	C608	COST INC
C630	CONTROMATICS CORP.	C099	COTTA TRANSMISSION CO
C631	CONVAL INC.	C647	COTTRELL-RESEARCH-HAMMON
C706	CONVERSION SYSTEMS INC	C649	COUCH
C606	CONVEYOR COMPONENTS CO.	C651	COULTER STEEL AND FORGE CO.
C632	CONVEYOR DYNAMICS INC.	C664	COURION INDUSTRIES INC.
C677	COO-PAR CONCRETE CORPORATION	C653	COURTNEY ENG. CO.
C641	COOK	C648	COWAN
C671	COOK & BROWN LIME COMPANY	C657	COWAN DYNAMICS LTD.
C638	COOK IRON STORE	C668	COWAN, FREDERICK & CO.
C637	COOK, LOREN CO.	C542	COX INSTRUMENT (LYNCH CORP)
C009	COOKE, G. M. ASSOC	C701	CPO ENGG INC
C646	COOKSON	C654	CRAFTWELL
C628	COOPER ENERGY SERVICES	C655	CRAIG SYSTEMS CORP.
C629	COOPER INDUSTRIES	C663	CRAMER & LINDELL CO.

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C660	CRAMER CONTROL CORP.	C735	CULLIGAN INTERNATIONAL
C669	CRAN HOIST CORP.	C740	CUMBERLAND RESEARCH CORP.
C670	CRANE CO. (COCKRANE DIV)	C741	CUMHINGS INSULATION CO.
C665	CRANE COMPANY	C742	CUMMINS ENGINE CO., INC.
C676	CRANE COMPANY-CHEM PUMP DIVISION	C738	CUMMINS SERVICE & SALES
C666	CRANE DEMING PUMPS	C739	CUMMINS-WAGNER CO. INC.
C670	CRANE HOIST ENGINEERING & MFG CO.	C743	CUNNINGHAM SUPPLY CO.
C674	CRANE MFG. & SERVICE CORP.	C749	CURTIN MATHESON SCIENTIFIC CO.
C675	CRANE MIDWEST FITTING CORPORATION	C744	CURTIS DEVELOPMENT & MFG CO.
C681	CRANE PACKING CO.	C754	CURTIS INDUSTRIES, INC.
C682	CRANE SUPPLY CO.	C751	CURTIS MANUFACTURING CO.
C683	CRANE TELIDYNE CHEM-PUMP DIVISION	C704	CURTIS, L.N. & SONS
C684	CRANE VALVE CO.	C747	CURTIS-WRIGHT
C672	CRANE, JOHN CO.	C766	CUSHMAN ELECTRONICS
C680	CRANE-FLOHATICS DIV.	C748	CUSTODIS CONSTRUCTION COMPANY
C702	CRANE/PRO-TECH ENVRNMTL INSTRU (C665)	C750	CUSTOM ALLOY CORP.
C689	CRAMFORD & CO (BERGEN-PATTERSON CORP.)	C753	CUSTOM COMPONENT SWITCHES, INC.
C685	CRAWFORD FITTING CO.	C755	CUSTOM CONT PROD.
C686	CRK BRYANT SUPPLY CO.	C756	CUSTOM CONTROL PANELS
C687	CREAMER & DUNLAP INCORPORATED	C759	CUSTOM CONTROL SENSORS INC
C697	CRESCENT ELEC	C758	CUSTOM CONTROLS CO INC
C688	CRESCENT NIAGARA CORP.	C757	CUSTOM ELECTRICAL SYSS INC
C690	CREVSOT-LOIRE (FRANCE)	C760	CUSTOM ENGG CORP
C691	CREWS, M.C. CO.	C761	CUSTOM INDUSTRIAL CONTROL
C692	CRISPIN VENTS	C762	CUSTOM PLASTIC
C694	CROCKATT, W.W., & SONS	C763	CUSTOM SWITCHES
C695	CROLL-REYNOLDS ENGINEERING CO., INC.	C765	CUSTOMLINK CONTROL PRODUCTS, INC.
C705	CRONELL LUBLINR	C770	CUTLER-HAMNER
C711	CROSBY VALVE	C746	CUTRIS-ELECTRO
C715	CROSBY-ASHTON GAGE CO.	C775	CUTTER ELEC & MFG
C719	CROUSE NUCLEAR SERVICE INC.	C777	CUYLER PRODUCTS INC.
C720	CROUSE-HINDS	C780	CVI CORP.
C708	CROW, LEVIS M.	C782	CYBEREX INC.
C707	CROWLEY, CHARLES P. CO	C785	CYCLONE FENCE
C721	CROWLEY, PHIL & ASSOCIATES	C790	CYCLOPS CORP.
C722	CROWN CORRECTION INC.	C793	CYCLOPS IRON WORKS
C709	CROWTER, INC.	C795	CYCLOTRON CORP., THE
C724	CRUCIBLE STEEL CO.	C796	CYGNA ENERGY SYS (FRMLY B036)
C723	CRUMP, AL	C757	CYPRESS WELDING EQUIP INC
C728	CRYDOM CONTROLS	C804	CYPRUS CABLE SUPPORT CO.
C726	CRYENCO DIV CTI.	C805	CYPRUS WIRE & CABLE COMPANY
C716	CRYO CHEM INC.	D005	D'APPOLONIA, E. CONSULTING ENGINEERS, INC.
C718	CRYO-TEC INC	D002	D'CAP STEEL FABRICATORS
C725	CRYOGENIC ENGINEERING CO. (CRYEMCO)	D051	DA-LITE SCREEN CO INC
C730	CRYOGENIC TECHNOLOGY, INC.	D073	DACON SYSS INC
C717	CRYOGENICS EXPERTS INC	D006	DAHL, GEORGE W., COMPANY INCORPORATED
C727	CRYOOM CONTROLS	D026	DAILY INSTRUMENTS CORP.
C731	CTE, INC.	D007	DAIRYLAND POWER COOPERATIVE
C733	CTI NUCLEAR INC.	D028	DAKE CORP.
C734	CULLEN, J. P., & SONS, INC.	D008	DAKE ENGINE COMPANY
C732	CULLEN, J. T. COMPANY	D023	DALE ELECTRONICS

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D308	DALLY ENGINEERING VALVE CO	D065	DEANS BROS PUMP
D003	DALTON INT'L (DIV OF WAYNE DOOR CO)	D064	DEARBORN CHEMICAL (DIV OF CHEMED CORP)
D004	DALEEL	D067	DEARBORN RUBBER CORP.
D010	DAMES & MOORE	D069	DEARBORN WIRE & CABLE CO.
D022	DAMPER DESIGN INC.	D068	DEARNAN MFG.
DC01	DANA CORP.	D071	DECATUR ENGINEERING COMPANY
D011	DANA LABORATORIES	D070	DECATUR PUMP CO.
D009	DANA MECHANICAL CONTRACTING CO.	D063	DECISION DATA COMPUTER CORP.
D056	DANCO INC	D066	DECO ENGINEERING PRODUCTS, INC.
D013	DANIEL BOLT CO.	D054	DECO MFG CO INC
D014	DANIEL CONSTRUCTION COMPANY	D072	DEDELOW, INC.
D012	DANIEL INDUSTRIES, INC.	D075	DEFENSE APPAREL NU-CON PRODUCTS
D078	DANIEL INTERNAT'L CORP (FLUOR CORP)	D077	DEGREMONT INC.
D016	DANIEL INTERNATIONAL CORP.	D080	DEKOROM DIV.
D031	DANIEL MEASUREMENT CO.	D085	DEL ELECTRONICS CORP.
D015	DANIEL ORIFICE COMPANY	D090	DEL MAR ENGINEERING LAB
D019	DANISH HYDRAULIC INSTITUTE	D084	DEL TECH ENGINEERING INC.
D017	DANKAS, WALTER, COMPANY	D082	DELANY CO.
D018	DANTON	D089	DELAVAL ENGINES & COMPRESSION DIV.
D020	DARLING VALVE & MFG CO. (SEE A391)	D088	DELAVAL TURBIN INC.
D025	DARLING-ANCHOR (SEE A393)	D083	DELAWARE ALLOY FORGE CO.
D029	DATA 100 CORP.	D092	DELCO CO.
D059	DATA PRINTER CORP	D103	DELCO PRODUCTS
D076	DATA SYSTEMS DESIGN INC	D093	DELEVAL CONDENSER, INC.
D030	DATA TECHNOLOGY CORP.	D094	DELEVAL SEPARATOR COMPANY, THE
D027	DATA-PIC SYSTEM, INC.	D086	DELEVAN CO.
D031	DATAPRODUCTS, CORP.	D095	DELLE AHLSTROM
D033	DATEL SYSTEMS	D091	DELMARR TRANSMITTER CO.
D035	DATEX	D096	DELPHI INDUSTRIES
D037	DAUGHERTY COMPANY INC.	D109	DELTA CONTROLS CORP.
D053	DAVCO (DAVIS IND INC)	D098	DELTA CORP.
D032	DAVE STEEL CORP	D107	DELTA ELECTRONIC CONTROL CORP (STATIC PWR)
D038	DAVID ROUND & SON INC.	E099	DELTA IRON WORKS, INC.
D040	DAVIS & WILDER, INC.	D100	DELTA SOUTHERN CO.
D041	DAVIS CONSTRUCTION	D101	DELTA STEEL CORPORATION
D039	DAVIS ENGINEERING CORP.	D102	DELTA SWITCH BOARD COMPANY
D303	DAVIS INSTRUMENTS MFG CO INC	D104	DELTA-FLO HEATER MFG CO.
D042	DAVIS IRON WORKS, INC.	D105	DELTA-STAR ELEC DIV
D043	DAVIS METAL PRODUCTS	D097	DELTADYNE
D044	DAVIS, GREGORY & DOLL CO	D106	DELTEC CORP.
D034	DAY-BRITE, INC.	D108	DELTROL CORP.
D045	DAYCO SHEET METAL	D110	DELTRON INC.
D047	DAYSTRON INC.	D115	DELUXE METAL FURNITURE
D049	DAYTON SURE-GRIP & SHORE COMPANY	D118	DEMCO INC.
D050	DAYTRONICS	D120	DEMING CO
D055	DE LAVAL TURBINE, INC.	D122	DENISON DIVISION
D057	DE VILBISS COMPANY	D121	DENISON, R.B., INC.
D060	DE EURICK CORP.	D119	DENVER EQUIPMENT DIVISION
D061	DEAL, ROBERT S. CORP.	D124	DEPENDABLE CONCRETE PRODUCTS COMPANY
D062	DEALER'S ELECTRIC CO.	D125	DEPPMAN, R. L.
D306	DEAN PRODUCTS INC (PANELCOIL)	D126	DEPRIZIO, R.L., & ASSOC., INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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D127	DEPRIIO, V.N., CONSTRUCTION CO.	D160	DIGITAL EQUIPMENT CORP.
D123	DERAKANE CO.	D161	DIGITRAM
D132	DES MOINES STEEL CO.	D165	DIKWOOD CORP., THE
D134	DESIGN DENPER CO.	D167	DIKKERS
D114	DESIGNED SPACE INTERNAT'L	D170	DILLON, W.C. & CO., INC.
D128	DESOMASTIC PRODUCTS CO.	D300	DINETRICS INC
D138	DESSAU, HAROLD COMPANY	D171	DINGO DYNAMICS
D129	DETRICK, H.H. CO.	D175	DINGS MAGNETIC SEP
D081	DETROIT BALL BEARING CO	D046	DIONEX CORP
D302	DETROIT DIESEL-ALLISON DIV	D111	DIRECT SAFETY CO
D052	DETROIT DOOR & HARDWARE CO	D144	DIS-TRAN PRODUCTS INC.
D036	DETROIT EDISON COMPANY	D198	DISTRIBUTION DESIGN, INC.
D130	DETROIT HOIST & MACHINE	D169	DIVAC CORP.
D133	DETROIT INDUSTRIAL INSTRUMENTS CO.	D176	DIVAC ELECTRONICS
D135	DETROIT STEEL CORP.	D173	DIVERSIFIED CHEMICALS CORP.
D136	DETROIT SWITCH INC.	D116	DIVERSIFIED THREADED PRODS CO
D137	DETROIT TESTING LABORATORIES	D174	DIXIE PIPE & SALES INC.
D140	DEUTERIUM CORP.	D187	DO ALL ROCKFORD CO.
D141	DEUTSCH CO.	D276	DO-ALL MIDWEST CO.
D087	DEUTSCH ELECTRONICS COMPONENTS DIV	D213	DOBLE ENGINEERING INC.
D079	DEUTSCH RELAYS INC	D058	DOCUMATION INC
D142	DEVAR CONNECTICUTT	D179	DODGE CO.
D145	DEVCO ENGINEERING INC.	D183	DODGE DIV OF RELIANCE ELECTRIC CO.
D139	DEVILBLISS COMPANY	D181	DOERR ELECTRIC CORP.
D146	DEWRANCE N. COMPANY LTD.	D184	DONOHY-EACHARY INC.
D147	DEURIK	D186	DOLE VALVE CO.
D199	DIABLO SYSS INC	D177	DOLLINGER CORP.
D117	DIAL STEEL FABRICATORS INC	D178	DOLPHIN ENGINEERING CO.
D149	DIALCO	D172	DOLPHIN, W.B. & ASSOCIATES CO.
D148	DIAMOND (SAVANNAH, GA.)	D201	DOMESTIC PUMP CO (ITT)
D153	DIAMOND CANAPOWER LTD.	D193	DON-JOHNS, INC.
D152	DIAMOND CHAIN CO.	D112	DON-JONES ENGG CO INC
D151	DIAMOND ELECTRONICS, ARVIN CO.	D180	DONALDSON COMPANY
D150	DIAMOND POWER SPECIALTY CORP.	D207	DOWN PROD INC
D155	DIAMOND SHAMROCK CHEMICAL CO.	D197	DONOVAN INDUSTRIAL SUPPLY CORP.
D143	DIAMOND SHAMROCK CORP.	D182	DONOVAN SALES CO.
D154	DIAMOND-VOGEL	D185	DOOR-MAN MANUFACTURING CO.
D204	DIANI, A.J. CONSTRUCTION CO INC	D189	DOORS INC.
D156	DIANO CORP.-NDT PRODUCTS DIV	D196	DORADO SYSTEMS
D024	DICK DECAL COMPANY	D192	DORIC SCIENTIFIC (WARD/DAVIS ASSOCIATES. INC)
D131	DICK CORPORATION	D190	DORNBLATT & ASSOCIATES, INC.
D157	DICK, A.B., CO.	D191	DORR-OLIVER, INC.
D168	DICKEY CO.	D195	DOSIMETER CORP.
D164	DICKEY PIPE COUPLINGS	D200	DOSSERT MFG
D162	DICKS-ARMSTRONG, PONTIAC, INC.	D202	DOUBLE 'A' PRODUCTS CO.
D159	DICKSON COMPANY	D205	DOUGLAS LABS, DONALD W.
D194	DIEBOLD INC	D304	DOUGLAS STEEL FAB CORP
D166	DIELECTRIC COMMUNICATIONS	D210	DOUGLAS UNITED NUCLEAR, INC.
D163	DIETERICH STANDARD CORP.	D212	DOVER CORPORATION
D158	DIETE	D211	DOVER ELEVATOR COMPANY
D188	DIETZGEN, EUGENE COMPANY	D215	DOW CHEMICAL COMPANY, THE

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CODE	VENDOR NAME	CODE	VENDOR NAME
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D217	DOW CORNING CORP.	D269	DUNTEMAN & SHAPPERT
D216	DOWCO CORPORATION	D259	DUOSEAL INTERNATIONAL
D220	DOWN RIVER MECHANICAL, INC.	D271	DUQUESNE LIGHT COMPANY
D223	DOWNES CRAN & HOIST CO.	D273	DUR-A-FLEX SEAMLESS FLOORS
D225	DOWSER ELEC MACH WKS	D278	DUR-O-WAL NATIONAL, INC.
D221	DOYEN & ASSOCIATES, INC.	D074	DURA PRODS INC
D231	DOYLE AND ROTH MANUFACTURING CO.	D307	DURABLE CONTROLS INC
D230	DOYLE, M.J. CO.	D272	DURAMETALLIC CORP.
D229	DRAGO SUPPLY CO.	D262	DURANT DIGITAL INSTRUMENTS
D232	DRAGON VALVE, INC.	D266	DURCO CO., INC.
D228	DRAKE CORP.	D264	DURHAM & RICHARDSON, INC.
D233	DRAKE-WILLIAMS STEEL CO.	D275	DURIRON CO., INC.
D234	DRAKE CO.	D277	DURO-INSTRUMENT CO.
D218	DRANETE ENGINEERING LABS, INC.	D261	DURODYNE CORP.
D235	DRAVER CORP.	D279	DURR, R.C., COMPANY, INC.
D236	DRAVO CORP (PIPE FABRICATION DIV)	D274	DURRETT-SHEPPARD CORP.
D240	DRAVO, INC.	D281	DUST SUPPRESSION SYSTEMS
D237	DRAVO-DOYLE CO.	D284	DUNE PRECAST CONCRETE PRODUCTS, INC.
D238	DRESSEH-BARNES ELECTRONICS CORP.	D280	DWIGHT FOOTE, INC.
D241	DRESSER CRANE & HOIST OPERATIONS	D295	DWYER INSTRUMENTS INC.
D244	DRESSER CRANE, HOIST & TOWER DIV	D294	DWYER PRODUCTS CORP.
D243	DRESSER INDUSTRIAL VALVE & INST DIV	D282	DWYER, F.W. MFG CO., INC.
D245	DRESSER INDUSTRIES, INC.	D298	DYER FIBERGLASS INC
D242	DRESSER-EUROPE	D292	DYER, THOMAS J., CO.
D239	DREXELBROOK ENG CO.	D293	DYNA CELL
D246	DRIERITE, W.A., HAMMOND, CO.	D288	DYNA-QUIP
D305	DRURY CO	D301	DYNAC DIVISION SPECIAL DYNAMICS
D248	DRYER DYNAMICS CORP.	D222	DYNACON SYSTEMS, INC.
D252	DRYING SYSTEMS CO.	D297	DYNAPORCE CORPORATION
D247	DSD COMPANY, THE	D286	DYNAGE
D250	DU KANE CORP.	D283	DYNALCO CORP.
D256	DU KANE PRE-CAST CONCRETE	D285	DYNALECTRON AEROSPACE OPERATIONS
D255	DU PONT DE NEMOURS & CO., INC., E.I.	D287	DYNAMATICS
D249	DUAL SNAP	D048	DYNAMATION INC
D254	DUBIE-CLARK CO.	D113	DYNAMIC TECHNOLOGY INC
D208	DUBOSE STEEL INC	D209	DYNAPOWER CORP
D251	DUCOMMON METAL & SUPPLY CO.	D224	DYNASCAN CORP. (TELENOTIVE PRODUCTS GROUP)
D226	DUCON CO., INC.	D289	DYNASCIENCE CORPORATION
D253	DUCT-O-WIRE CO.	D299	DYNATECH FRONTIER INC
D206	DUCTHATE IND INC	D290	DYNATECH R/D CO.
D263	DUFF-NORTON COMPANY	D203	DYNEX/RIVETT INC
D214	DUHIG & CO INC	D291	DYSON, JOSEPH & SONS, INC.
D257	DUKE POWER COMPANY	D219	DYTRON, INC.
D227	DULUTH PLUMBING SUPPLIES CO., INC.	D296	DYTRONICS INC.
D258	DUNBAR & SULLIVAN DREDGING COMPANY	E299	E P G (DIV OF GULF-W)
D260	DUNCAN ELECTRIC	E352	E T A ENGINEERING INC
D265	DUNEGAN CORP.	E009	E V O CORP.
D268	DUNG RADIATOR COMPANY	E011	E-SYSTEMS, INC.
D270	DUNHAM, C. A.	E004	E-SYSTEMS, INC. (MONTEK DIV)
D267	DUNHAM-BUSCH, INC.	E010	E. G. & G. INC.
C745	DUNO ENGG CORP.	E068	E.B.R., INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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E005	E.B.V SYSTEMS, INC.	E091	ECOLAIRE CONDENSER INC.
E015	E.I.L. INSTRUMENTS CO.	E086	ECOLOGY CONSULTANTS INC.
E013	E.I.M.C.O. BSP DIV-ENVIRO-TECH CORP.	E073	ECON-O-TROL
E014	E.L.C.O.	E111	ECONOMIC LABORATORIES INC.
E012	E.S.A.B. MANUFACTURES INC.	E092	ECONOMY GAGE & INSTRUMENT CO.
E016	E.S.B. INC.	E067	ECONOTHERM INSULATION CO., INC.
E017	EADY, GEORGE M., CO.	E063	ECTRON CORP.
E018	EAGLE ENGINEERING CO.	E088	EDDY-IOWA
E019	EAGLE IRON WORKS	E298	EDERER CORPORATION
E020	EAGLE SIGNAL	E082	EDERER INC.
E025	EAGLE-PICHER INDUSTRIES, INC.	E083	EDGERLY INSTRUMENT CO.
E001	EAL CORP (NAME CHANGE FROM L190)	E061	EDISON ELECTRIC INSTITUTE
E030	EANCO, INC.	E084	EDISON INSTRUMENT COMPANY
E035	EARLE EQUIPMENT	E085	EDLOW INTERNATIONAL CO.
E040	EARTH ENVIRONMENT MONITORING	E101	EES NUCLEAR
E036	EARTHQUAKE ENGINEERING SYSTEMS INC.	E096	EDWARD STAUBER WHOLESALE HARDWARE, INC.
E042	EAST BAY STEEL PRODUCTS, INC.	E090	EDWARDS CO.
E041	EAST COAST STEEL	E112	EDWARDS ENGINEERING CORP.
E047	EAST MOLINE METAL PROD CO	E093	EDWARDS POWER DOOR CO.
E043	EASTECH INC.	E095	EDWARDS VALVES DIV
E052	EASTER OWENS ELECTRICAL CO.	E102	EER POWER ENGINEERING INC.
E044	EASTERN CONTROLS	E113	EFFECTS TECHNOLOGY
E046	EASTERN ELECTRIC SUPPLY	E094	EGERER CO.
E045	EASTERN INDUSTRIES	E318	EHRMAN TRANSPORT, INC.
E050	EASTERN SPECIALTIES	E115	EIM INC.
E024	EASTERN SPECIALTY CO, THE	E104	EKG ASSOCIATES
E051	EASTERN STAINLESS STEEL CO.	E122	EKTO MFG CORP
E055	EASTMAN KODAK CO.	E108	EL-TEK INDUSTRIES INC.
E059	EATON CORP.	E107	ELAN ENGINEERING CORP.
E060	EATON METAL PRODUCTS CO.	E098	ELASTIC STOP NUT CORP. OF AMERICA-AGASTAT
E062	EATON, YALE & TOWNE INC.	E099	ELCEN METAL PRODUCTS CO.
E065	EBASCO SERVICES INC.	E207	ELEC TACHOMETER CORP (X-REF M116)
E048	EBCO MFG CO	E203	ELECTOM MACHINE CORP.
E026	EBERHARD FASER INC	E097	ELECTRA MOTORS INC.
E071	EBERHARDT-DENVER	E103	ELECTRIC APPARATUS COMPANY
E070	EBERLINE INSTRUMENT CORP.	E100	ELECTRIC ARC CO.
E072	EBKO PIPING SYSTEMS	E105	ELECTRIC COMMUNICATION
E069	EBY, MARTIN K., CONSTRUCTION COMPANY, INC.	E117	ELECTRIC CONTROL DEVICES, INC.
E021	ECHO LABORATORIES	E110	ELECTRIC ENGINEERING EQUIPMENT
E074	ECKART & FINARD CO.	E106	ELECTRIC ENVIRONMENTAL SYSTEMS
E076	ECKER, M. COMPANY	E114	ELECTRIC FIXTURE AND SUPPLY
E066	ECLIPSE-LOOKOUT COMPANY	E120	ELECTRIC MACHINERY MFG. CO.
E075	ECO PUMP CORP.	E119	ELECTRIC MFG INC.
E077	ECO-SCIENCE LAB	E121	ELECTRIC MOTORS LTD.
E080	ECODYNE COOLING PRODUCTS CO.	E125	ELECTRIC POWER EQUIP.
E109	ECODYNE CORP. (MRM DIV)	E127	ELECTRIC POWER RESEARCH INSTITUTE
E078	ECODYNE CORPORATION (SANTA ROSA, CALIF)	E130	ELECTRIC PRODUCTS
E079	ECODYNE CORPORATION (UNION, NEW JERSEY)	E135	ELECTRIC REGULATOR
E081	ECODYNE GRAVER(H2O) DIVISION	E140	ELECTRIC SERVICE
E089	ECODYNE UNITECH DIV	E141	ELECTRIC SUPPLY CORPORATION
E087	ECOKEL CO.	E022	ELECTRIC SWITCHES INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
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E171	ELECTRIC THERMOMETERS TRINITY INC	E214	ELGIN-BUTLER BRICK CO.
E137	ELECTRIC THERMOMETERS, INC.	E228	ELK-HART VALVE CO.
E139	ELECTRIC WHEEL COMPANY	E224	ELKAY MANUFACTURING
E143	ELECTRICAL APPLIANCE COMPANY	E213	ELKHART BRASS MFG. CO., INC.
E136	ELECTRICAL CONTROLS INC.	E212	ELKHART FOUNDRY & MACHINE CO.
E131	ELECTRICAL EQUIPMENT SALES CO.	E211	ELKHART GLASS MANUFACTURING CO., INC.
E153	ELECTRICAL INSTRUMENT SERVICE, INC.	E219	ELLENCO, INC.
E116	ELECTRICAL MATERIALS & EQUIPMENT CO., INC.	E221	ELLINGTON MILLER COMPANY, (EMCO)
E138	ELECTRICAL SPECIALITY PRODUCTS CO.	E220	ELLIOTT CO.
E147	ELECTRO - MOTIVE DIV. OF GM	E222	ELLISON - INSTR.
E156	ELECTRO CONTROLS & ENCLOSURES	E229	ELMA ENGINEERING COMPANY
E142	ELECTRO CORPORATION	E206	ELMWOOD SENSORS INC
E145	ELECTRO DEVICES, INC.	E223	ELNA ENGINEERING CO.
E151	ELECTRO DRYER	E225	ELSCINT INC.
E144	ELECTRO LIFT	E268	ELSIE MFG CO
E148	ELECTRO PRODUCTS	E226	ELTRA CORPORATION
E149	ELECTRO PRODUCTS LABORATORIES	E227	ELWOOD NUCLEAR SAFETY
E150	ELECTRO RUST-PROOFING	E230	EMANON CO., INC.
E155	ELECTRO SWITCH CORP.	E256	EMBER PRODUCTS, INC.
E152	ELECTRO SYSTEMS INC.	E231	EMC
E146	ELECTRO-MECHANICS	E237	EMERGENCY-POWER ENGINEERING
E158	ELECTRO-MECHANO	E232	EMERSON ELECTRIC CO.
E160	ELECTRO-MOTIVE DIV	E218	EMERSON ELECTRIC CO., VAREC DIVISION
E198	ELECTRO-SCIENTIFIC INDUSTRIES	E217	EMERSON ENGINEERING CO., INC.
E064	ELECTROHOME LIMITED	E239	EMERSON-CHROMALOX
E165	ELECTROID CO.	E244	EMERY, A.N., COMPANY, THE
E168	ELECTROL, INC.	E236	EMGCO (PRODUCTS CORP)
E204	ELECTROMAGNETIC IND. INC.	E234	EMMISSION CONTROL
E269	ELECTROMARK CO	E233	EMPIRE STEEL CASTING, INC.
E169	ELECTROMAX INSTRUMENTS, INC.	E199	EMPIRE TOOL & MFG CO INC
E170	ELECTROMETER CORP.	E238	EMPRO MANUFACTURING COMPANY, INC.
E175	ELECTROMODE	E235	EMR-COMPUTER
E177	ELECTRON MACHINE CO., THE	E240	EMR-PHOTOELECTRIC
E180	ELECTRONIC ASSOC., INC.	E245	EMR-TELEMETRY
E185	ELECTRONIC CONTROL	E274	ENCO MFG CO
E190	ELECTRONIC COUNTERS CORP.	E242	ENCON MANUFACTURING CO.
E192	ELECTRONIC DEVELOPMENT LABORATORIES INC.	E246	ENDEVCO INC.
E193	ELECTRONIC DISTRIBUTORS, INC.	E247	ENDICOTT FORGING
E195	ELECTRONIC ENGINEERING	E248	ENDRESS & HAUSER
E118	ELECTRONIC FLO-METERS INC	E241	ENDURANCE METAL PRODUCTS CO.
E197	ELECTRONIC POWER & CONTROL CO.	E251	ENERCON ENGINEERING CO.
E196	ELECTRONIC RESOURCES	E257	ENERGETICS SCIENCES DIV. (NECTON, DICKINSON)
E200	ELECTRONIC SPACE PRODUCTS, INC.	E250	ENERGY INC.
E201	ELECTRONICS CORPORATION OF AMERICA	E252	ENERGY PRODUCTS GROUP
E205	ELECTRONIZED CHEMICALS CORP.	E253	ENERGY RESEARCH DEVELOPMENT AGENCY-(ERDA)
E202	ELECTROSTATICS	E255	ENERGY SCIENCES INC.
E210	ELECTROSYN TECHNOLOGY LABORATORIES, INC.	E249	ENERPAC
E209	ELGAR, CORP.	E259	ENGDAHL ENTERPRISES
E208	ELGEN MFG CORP.	E260	ENGELHARD INDUSTRIES
E216	ELGIN MFG. CO.	E264	ENGINEER CO.
E215	ELGIN SOFTENER, INC.	E267	ENGINEERED CONTROL SYSS

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CODE VENDOR NAME

E279 ENGINEERED GRATING INC
E261 ENGINEERED INDUSTRIAL EQUIP. CO., INC.
E262 ENGINEERED PRODUCTS, INC.
E263 ENGINEERED SALES
E265 ENGINEERING DATA SYSTEMS, INC.
E270 ENGINEERS AND FABRICATORS, INC.
E272 ENGINEERS TESTING LABS
E271 ENGLEWOOD ELECTRICAL SUP
E275 ENGLISH ELECTRIC
E266 ENGR ANALYST SVSS INC
E276 ENOREX INC.
E254 ENPO-CORNELL COMPANY
E277 ENPRO
E280 ENSIGN ELECTRIC & MFG
E278 ENTRELEC
E243 ENVIREX INC (DIV OF REXNORD)
E281 ENVIREX, INC.
E296 ENVIRO TECH
E297 ENVIRO-FAB INC
E285 ENVIROGENICS COMPANY
E293 ENVIRONMENT ONE CORP.
E286 ENVIRONMENTAL AIR PRODUCTS INC.
E290 ENVIRONMENTAL ANALYSTS, INC.
E291 ENVIRONMENTAL DATA CORP.
E288 ENVIRONMENTAL DEVICES CORP.
E289 ENVIRONMENTAL ELEMENTS CORP.
E287 ENVIRONMENTAL ENHANCEMENT
E292 ENVIRONMENTAL PRODUCTS
E295 ENVIRONMENTAL RESEARCH CORP.
E273 ENVIRONMENTAL SYSS CORP
E294 ENVIRONMENTAL TESTING CORP.
E300 EON CORP.
E303 EPCO SERVICES, INC.
E307 EPICOR, INC.
E308 EPOEUX MANUFACTURING CORP.
E301 EPPERSON & CO.
E309 EPPLEY LABORATORY INC.
E306 ERA TRANSPAC CORP.
E008 ERC/LANCY (DART ENVRHMT & SVSS CO)
E302 ERDCO ENGINEERING CO.
E304 ERECTIONERS, INC.
E305 ERICO PRODUCTS, INC.
E023 ERICSON MFG CO
E310 ERIE ELECTRIC COMPANY
E311 ERIEZ MAGNETICS
E312 ERNST GAGE CO.
E313 ERNST, E.C. INC.
E316 ERNST, EUGENE PRODUCTS CO.
E314 ESB, INC.
E319 ESCH & ASSOC
E315 ESCO CORPORATION

CODE VENDOR NAME

E317 ESCO MFG. CO.
E320 ESCO PRODUCTS
E325 ESSELSYN-MURPHY-HANF
E326 ESSEX BRASS CORP.
E327 ESSEX INTERNATIONAL
E328 ESSEX WIRE CORP.
E330 WATERLINE-ANGUS
E335 ESE ASSOCIATES, INC.
E337 STATECH INDUSTRIES INC.
E362 ETHA OIL CO INC
E340 EUCLID ELEC & MFG
E338 EUR-CONTROL USA INC
E339 EUREKA BOILER WORK
E342 EVANS EQUALIZING CO.
E341 EVANS STEEL & MFG CO.
E343 EVANS, GEORGE CO.
E363 EVER-READY THERMOMETERS CO
E346 EVER-TITE COUPLING CO., INC.
E348 EVERPURE INC.
E340 EVERS CO.
E361 EWING-RECORDS & ASSOCIATES
E345 EX-CELLO CORP.
E350 EXECUTONE INC.
E347 EXELROD & KERRER, INC.
E353 EXIDE ELECTRONICS CORP
E355 EXIDE INDUSTRIAL DIV
E356 EXIDE POWER SYSTEMS
E357 EXITAIRE COMPANY, INC.
E351 EXO SENSORS INC
E354 EXOTIC MATERIALS, INC.
E359 EXXON CHEMICAL COMPANY
E360 EXXON NUCLEAR CO., INC.
E358 EXXON USA
E365 EYERS CO.
E375 EXIDE POWER SYSTEMS DIV
F021 F & J SPECIALTY PROD INC
F001 F & M SUPPLY INC.
F002 F & S CENTRAL
F188 F-P-E PIONEER ELECTRIC, LTD.
F003 FABEK, JOHN-TRACTOR COMPANY
F005 FABOHIO, INC.
F006 FABRI VALVE COMPANY
F004 FABRICATING WELDING CORP.
F042 FABRICATION ENGINEERING COMPANY
F228 FABRICATOR INC.
F007 FACE VALVE CO.
F022 FACET ENTERPRISES INC
F008 FAFHIR BEARINGS
F009 FAG BEARINGS
F019 FAIRBANKS CO, THE
F010 FAIRBANKS HORSE

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CODE VENDOR NAME

F012 FAIRCHILD IND. (PRODUCTS DIV)
 F013 FAIRCHILD PRODUCTS MILLER
 F017 FAIRCHILD, W.R., CONSTRUCTION CO.
 F111 FAIRFIELD ENGINEERING CO. (FORMERLY-FOR)
 F011 FAIRIS ENGINEERING
 F032 FALCON MACHINERY CO
 F014 FALCON MARINE CO.
 F016 FALCON STEEL CO.
 F015 FALK CORP.
 F020 FANSTEEL, INC.
 F025 FARGO MFG CO.
 F029 FARINON ELECTRIC CO.
 F030 FARR CO.
 F035 FARRIS ENGINEERING
 F036 FARROW COMPANY, INC.
 F037 FARVAL CORPORATION
 F040 FASCO INDUSTRIES INC.
 F038 FAULSTICK BROS
 F041 FAUST, HAROLD COMPANY, INC.
 F023 FAUVER, J.N. CO INC
 F018 FAVA NUCLEAR ENGG INC
 F043 FAVORITE RUBBER COMPANY
 F045 FED AMER CEMENT & TILE
 F046 FEDCO CONTROL
 F044 FEDDERS-QUIGAN CORPORATION
 F047 FEDERAL CEMENT PRODUCTS, INC.
 F050 FEDERAL ENTERPRISES
 F055 FEDERAL PACIFIC ELEC
 F057 FEDERAL PRODUCTS CORPORATION
 F060 FEDERAL SIGN & SIGNAL
 F064 FEDERAL SIGNAL CORPORATION
 F062 FEDERAL STEEL CORP.
 F065 FEDERAL TEL & RADIO
 F063 FEDERAL, STEEL & SUPPLY COMPANY
 F053 FEDERAL-MOGUL CORP.
 F067 FEE & MASON
 F068 FELKER BROTHERS MFG CO.
 F070 FEMCO, INC.
 F075 FENESTRA BLDG PROD
 F072 FENHILL CO., INC.
 F080 FENWALL ELECTRONICS CO.
 F081 FENWALL, INC.
 F088 FERGUSON EQUIP CO
 F083 FERGUSON MACHINE CO.
 F082 FERGUSON STEEL CO., INC.
 F085 FERMONT DIV
 F090 FERRANTI-PACKARD ELEC
 F108 FERRO ENAMELING
 F087 FERRO, P.T. CONSTRUCTION, INC.
 F091 FERROSTAAL-METABO TOOL CO
 F076 FERROXCUBE DIV (AMPEREX CORP)

CODE VENDOR NAME

F069 FETTEROLF CORP.
 F094 FIAT CO.
 F093 FIAT PRODUCTS
 F079 FIBA LEASING COMPANY, INC.
 F086 FIBERCAST COMPANY
 F084 FIBERGRATE CORP.
 F092 FICK FOUNDRY
 F106 FIELD & SHORB CO, THE
 F095 FIELD EMISSION CORP.
 F096 FIELD FABRICATIONS
 F097 FIESE & FIRSHENBERGER MFG COMPANY
 F100 FIFTH DIMENSION, INC.
 F103 FIKE METAL PRODUCTS CORP.
 F104 FILKENS, EDWARD, CO.
 F105 FILTECH, INC.
 F110 FILTERITE CORP.
 F027 FILTREX INC
 F109 FINCOR
 F113 FINWELD TUBE
 F112 FINNIGAN, J.J.
 F099 FIRE PROTECTION OF LOUISVILLE INC
 F114 FIRE PROTECTION SYSTEM GRINNELL CO.
 F121 FIREMASTER (SUB. WALTER KEIDDE & CO.)
 F107 FIRETECK CORP
 F116 FIRETROL INC.
 F115 FIRST COLONY CORP.
 F118 FISCHBACH & HATFIELD ELECTRIC CO (JOINT-VENT)
 F119 FISCHBACH & LORD
 F244 FISCHBACK & MOORE ELECTRN CNTRL INC
 F120 FISCHER & PORTER CO.
 F098 FISH ENGG & CONSTRUCTION INC
 F125 FISHER CONTINENTAL
 F130 FISHER CONTROLS CO.
 F127 FISHER FLOW CONTROL DIV (ROCKWELL INT)
 F135 FISHER GOVERNOR
 F140 FISHER PIERCE DIV
 F141 FISHER SCIENTIFIC
 F126 FISHER SWITCHES INC. (FISHER-BROWNELL)
 F142 FITE-SIMONS & CONNELL DREDGE & DOCK
 F123 FIVE STAR FIELD SERVICE COMPANY, INC.
 F143 FLAGG, C. N. COMPANY
 F145 FLAKICE
 F300 FLAMEMASTER CORP.
 F150 FLANDERS FILTERS, INC.
 F138 FLANGEKLAMP CORP.
 F147 FLASH TECHNOLOGY CORP
 F122 FLEMING, DON D., COMPANY, INC.
 F151 FLEX KLEEN
 F136 FLEX-WELD, INC.
 F152 FLEXALIGN CO.
 F101 FLEXAUST CO (CALLAHAN MINING CO)

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CODE	VENDOR NAME
F117	FLEXIBOX INC.
F156	FLEXICORE COMPANY, INC., THE
F024	FLEXICRAFT INDUSTRIES INC
F153	FLEXITALLIC
F155	FLEXONICS DIV-CORP.
F150	FLICK REEDY CORP.
F157	FLINT STEEL CORPORATION
F160	FLINT STRUCTURAL STEEL
F134	FLO-TEK INC
F197	FLO-TORK INC.
F159	FLOOD, WALTER A., & COMPANY
F177	FLORI PIPE COMPANY
F161	FLORIDA BOLT & NUT CO.
F335	FLORIDA COMPUTER, INC.
F163	FLORIDA POWER & LIGHT COMPANY
F162	FLORIDA POWER CORPORATION
F146	FLORIDA STEEL CORP.
F192	FLOW FLEX ENGINEERING CO.
F168	FLOW MEASUREMENT SYSTEMS
F176	FLOW PRODUCTS.
F198	FLOW TECH CORP.
F128	FLOW TECHNOLOGY INC.
F221	FLOW-QUIP INC.
F164	FLOWLINE CORP.
F166	FLOWMATICS
F132	FLUID COMPONENTS, INC.
F167	FLUID CONTROLS CORP.
F165	FLUID DYNAMICS CORPORATION
F169	FLUID KINETICS CORPORATION
F173	FLUID LINE ENGINEERING, INC.
F154	FLUIDICS TECHNIQUES INC.
F102	FLUIDIEND BONDING CO
F131	FLUIDYNAMICS DEVICES, LTD.
F137	FLUKE, JOHN MANUFACTURING COMPANY
F170	FLUOR PIONEER INC.
F171	FLUORCARBON CO.
F148	FLYGT CORP.
F026	FMC CORP
F124	FMS CORP
F172	FMS CORP.
F193	FOLEY, HOWARD P. CO.
F196	FOOTE-JONES CO.
F139	FORCE CONSTRUCTION INC.
F144	FORD MOTOR CO.
F237	FORD WIRE PRODUCTS
F199	FORDERER CORNICE WORKS
F189	FORM SPRAY CO.
F129	FORMA SCIENTIFIC, INC., THE
F208	FORMSPRAG-MT. PLEASANT
F179	FORNEY ENGINEERING CO.
F194	FORNEY INC.

CODE	VENDOR NAME
F020	FORT MILLER CO INC
F178	FOSDICK MACH.
F149	FOSTER ENGINEERING INC.
F242	FOSTER FLOORING CORP
F175	FOSTER WHEELER
F184	FOSTER, J.M., INC.
F174	FOSTER, L.B. CO.
F186	FOSTER-WHEELER COMPANY
F182	FOSTERS IRON WORKS
F219	FOSTORIA INDUSTRIES INC.
F133	FOUR M STEEL INDUSTRIES, INC.
F238	FOURNIER & ASSOC (TRANSDATA INC)
F180	FOXBORO CO., THE
F181	FRABIMOR EQUIPMENT & CONTROL
F183	FRAM CORP.
F185	FRAMATOME (FRANCE)
F187	FRANCE PACKING CO.
F201	FRANK ELECTRIC CO.
F241	FRANK, MILTON S. CO INC
F191	FRANKE TILE COMPANY
F190	FRANKLIN ELECTRIC
F195	FRANKLIN INSTITUTE RESEARCH LABS
F200	FRANKLIN MILLER, INC.
F202	FRASSE, PETER A., & CO. INC.
F203	FRAY WELDING CO.
F204	FRED L. TOURTELLOT CO. (SEE T227)
F205	FREDERICK & CO.
F239	FREDRIKSEN & SONS FIRE EQUIP CO INC
F209	FREES INC.
F206	FRESSEN BROTHERS INC.
F207	FREIDMAN, A.J. SUPPLY
F210	FREQUENCY CHANGE
F222	FREQUENCY TECHNOLOGY INC.
F211	FRIEZE INSTRUMENTS
F214	FRITAG-WEINHARDT, INC.
F216	FROHMELT INDUSTRIES
F212	FROHSEN HEAT TRANSFER LTD (CANADA)
F213	FROST ENGINEERING
F217	FRUCO ASSOCIATES
F215	FRUHHAUF TRAILER
F218	FRUIN-COLNON CONSTRUCTION COMPANY
F226	FUEL ECONOMY ENGINEERING COMPANY
F220	FUEL MANAGEMENT CORP.
F225	FUEL TRAC
F224	FUELLGRAPP ELECTRIC CO.
F227	FULFLO SPECIALTIES
F243	FULL LINE FABRICATING INC
F230	FULLER CO.
F229	FULLER-AUSTIN INSULATION CO., INC.
F233	FULLERTON ENVIRONMENTAL SYSTEMS
F231	FULTON SHIPYARD

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CODE	VENDOR NAME	CODE	VENDOR NAME
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F232	FULTON SYLPHONE CO.	G041	GASSER E.R. & ASSOC. CONSULTING SERVICES
F236	FURMANITE CO.	G046	GAST MANUFACTURING CORP.
F234	FURNAS ELECTRIC CO.	G059	GASTON COUNTY DYING MACHINE CO
F223	FUSE INDICATOR, CORP.	G044	GATE CITY STEEL
F039	FUSES UNLIMITED	G018	GATELEY STAINLESS & ALLOY CO
F240	FUTURECRAFT CORP	G039	GATES RUBBER CO.
F031	FX SYSTEMS CORP	G043	GATEWAY - CHILSTROM
F235	FYR-FYTER CO.	G045	GAULIN CORP.
G002	G & W EAGLE SIGNAL	G071	GAUTHIER SHEET METAL INC
G005	G & W ELEC SPECIALTY	G069	GAYLORD MFG CO
G001	G & W ENERGY PRODS GROUP	G047	GAYNES
G023	G C A CORP (PAR SYSTEMS CORP)	G053	GE MARINE TURBIN & GEAR DEPT
G024	G E C ENERGY SYSTEMS LTD (ENGLAND)	G051	GEDNEY ELECTRIC
G229	G&W LANOTE FORGE	G049	GEDNEY, O.E., CO.
G004	G-V CONTROL	G054	GEIGER CONSTRUCTION PRODUCTS, INC.
G003	G. E. SUPPLY CO.	G048	GELMAN INSTRUMENT CO.
G074	G.A. MASONRY	G052	GEM CORP.
G022	G.B.G. INC	G198	GEM EQUIP CO INC
G007	G.K. ENTERPRISES	G056	GEMINI VALVE CO
G290	GA ELECTRONIC SYSTEMS DIV	G050	GEMS, INC.
G300	GA ENVIRONMENTAL SYSTEMS DIV	G055	GEN AMER TRANS CORP
G006	GABLE, D.R. ENGINEERING CO., INC.	G060	GEN DEVICE & FITTING
G008	GACO MFG-DIV OF GADDIS PET CORP.	G084	GEN ELEC CO (STEAM TURB/ENGRD PROD)
G009	GAGE LAB CORP.	G066	GEN ELECTRIC SUPPLY CO
G010	GAI-TRONICS CORP.	G113	GEN PARTITIONS MFG CORP
G011	GAL MFG CORP	G068	GEN STEEL FAB CO INC
G012	GALE ALLOY CORP.	G058	GENELCO INC
G015	GALIGHER CO.	G062	GENERAL AIR CONDITION CORP.
G014	GALLAGHER, R.J. CO.	G063	GENERAL ATOMIC CO.
G017	GALLAND-HENNING	G065	GENERAL CABLE CORP.
G013	GALLOWAY, G.W. CO.	G070	GENERAL CONCRETE CO.
G021	GAM RAD INC.	G072	GENERAL CONTROLS
G020	GAMAN DIV.	G073	GENERAL DIMENSIONS
G016	GAMWELL MECHANICAL INC	G075	GENERAL DYNAMICS
G025	GAMMA INDUSTRIES, INC.	G076	GENERAL EASTERN CORP.
G030	GAMMA PROCESS CO., INC.	G083	GENERAL ELECTRIC CO (SAN JOSE MOTOR PLANT)
G031	GAP INSTRUMENT CORP.	G080	GENERAL ELECTRIC CO.
G034	GARCHEN ENERGY CORP.	G082	GENERAL ELECTRIC CORP. (NUCLEAR ENG DIV)
G028	GARDCO MANUFACTURING CO.	G081	GENERAL ELECTRIC TECHNICAL SERVICES
G032	GARDEN CITY FAN & BLOWER CO.	G085	GENERAL ENERGY RESOURCES, INC.
G036	GARDNER, PAUL N., CO.	G090	GENERAL EQUIPMENT & MFG
G035	GARDNER-DENVER	G093	GENERAL FIRE EXTINGUISHER CORP.
G040	GARLOCK, INC.	G095	GENERAL FIREPROOFING
G026	GARNEY CO.	G096	GENERAL GASKET
G037	GARRET AIR RESEARCH MFG CO.	G097	GENERAL INDUSTRIAL SUPPLY
G029	GARRETSON-ELMENDORF-ZINOV-REIBIN ARCH ENGR	G098	GENERAL IONICS
G042	GARRETT FLUID COMPONENTS	G094	GENERAL KINEMATICS CORP.
G231	GARRETT PNEUMATIC SYSTEMS	G039	GENERAL METERS AND CONTROL COMPANY
G033	GARRETT, GEORGE K. CO.	G100	GENERAL MOTORS
G030	GARROTT BRASS	G105	GENERAL NUCLEAR INC.
G027	GAS DRYING INC	G110	GENERAL PHYSICS CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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G111	GENERAL PORTLAND, TRINITY DIVISION	G136	GLITSCH, INC.
G112	GENERAL PRECISION INC.	G057	GLOBAL ENGG DOCUMENTS SYSS
G019	GENERAL PUMP & EQUIPMENT CO	G067	GLOBAL POWER CO
G115	GENERAL RADIO	G196	GLOBAL STEEL PRODS CORP
G120	GENERAL RAILWAY SIGNAL	G138	GLOBE AMERADA GLASS CO
G125	GENERAL REGULATOR CORP.	G163	GLOBE ELECTRIC
G126	GENERAL RESISTANCE	G162	GLOBE INDUSTRIES INC.
G124	GENERAL RUBBER CORP.	G161	GLOBEL LAGGING INC.
G128	GENERAL SIGNAL	G169	GLYNN-JOHNSON CORP.
G127	GENERAL STEEL CO.	G167	GODDARD MANUFACTURING CORP.
G130	GENERAL TRANSDUCER	G168	GOLDEN GATE SWITCHBOARD CO.
G133	GENRAD INC.	G170	GOLLOB ANALYTICAL SERVICE CORP.
G131	GENUINE TOOL CO., INC.	G177	GONVAL INC.
G283	GEO-CONSTRUCTION TESTING (PRMLY X005)	G176	GOODALL ELECTRIC INC.
G061	GEORATOR	G173	GOODALL RUBBER CO.
G199	GEORGETOWN STEEL CORP	G174	GOODMAN, GEORGE, CO.
G134	GEORGIA IRON WKS CO	G172	GOODRICH, B.F. (CUTLASS BEARING DIVISION)
G132	GEORGIA POWER COMPANY	G171	GOODYEAR RUBBER
G135	GEOSCIENCE, LTD.	G222	GORDON ENGINEERING CO INC
G140	GEOTECH	G175	GORDON, CLAUD S. CO.
G139	GERAND	G179	GORDON, HARRY STEEL CO.
G141	GHEM CHEM ENGINEERING CORP.	G186	GORDOS CORP
G143	GIANT CONSTRUCTION CO.	G267	GORGAN CO., M.E.
G145	GIBBS & HILL, INC.	G219	GORING KERR INC
G144	GIBSON APPLIANCE CORP.	G180	GORMAN RUPP
G204	GIBSON, R.H. ASSOC	G184	GOULD BROWN BOVERI COMPANY
G146	GIDDINGS & LEWIS MACHINE CO.	G183	GOULD HEATING ELEMENT DIV
G193	GIPFELS ASSOC INC	G194	GOULD INC (VALVE & FITTINGS DIV)
G218	GIFFITH-HOPK CO	G182	GOULD INC.
G148	GIFFORD-HILL & CO., INC.	G192	GOULD INC. (POWER SYS DIV)
G147	GIFFORD-HILL AMERICAN	G187	GOULD SWITCHGEAR DIVISION
G149	GILBAR CO., INC.	G189	GOULD, J.D. CO INC
G151	GILBERT & BAKER MANUFACTURING CO.	G185	GOULD-NATIONAL BAIT
G150	GILBERT ASSOCIATES, INC.	G195	GOULDS CO.
G152	GILBERT MANUFACTURING CO.	G191	GOULDS INC. (INDUSTRIAL BATTERY DIV)
G142	GILBERT, CHARLES CO INC	G190	GOULDS MANUFACTURING
G197	GILBERT, FRED C. CO	G200	GOULDS PUMPS INC.
G153	GIMBEL MACHINE WORKS	G181	GOVERN CONTROLS OF AMERICA, LTD.
G157	GIMPEL MACHINE WORKS INC.	G188	GOYNE PUMP CO.
G154	GIRDLER FOUNDATION & EXPLORATION CO.	G202	GPE CONTROLS
G156	GISMO ENGINEERED CONTROL SYSTEMS	G201	GRACE CONSTRUCTION PRODUCTS
G155	GLADSTONE LABORATORIES, INC.	G205	GRACE, W. R. COMPANY
G137	GLASCO CORP	G206	GRACO INC.
G178	GLASER & ASSOCIATES, INC.	G210	GRAHAM MFG CO.
G158	GLASTIC CORP.	G213	GRAHAM WHITE SALES CORP.
G159	GLEASNER-HARDWELL CO.	G207	GRAN-CAL, INC.
G160	GLEASON REEL & CO.	G203	GRANCO CO.
G165	GLEASON, J.L. & CO.	G212	GRANGER, W. W. COMPANY
G166	GLEN CONTROLS IN.	G216	GRANDEN HALL & CO.
G064	GLESNER INDUSTRIAL SUPPLY	G214	GRANT GEAR WORKS
G164	GLIDDEN CO.	G208	GRAPHICS CONTROLS CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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G209	GRAPHICS DIVISION	G271	GROVES, S.J. & SONS CO.
G228	GRASIS CORP	G276	GRUNAU CO., INC.
G211	GRATING PACIFIC IN.	G286	GRUNERT'S, NORMAN ENGG CONTR
G215	GRAVER TANK & MFG CO.	G279	GTE AUTOMATIC ELECTRIC CO.
G220	GRAVER WATER CONDITIONING CO.	G360	GTE LENKURT
G224	GRAY HILLS CORP.	G272	GTE SYLVANIA INC.
G225	GRAY TOOL CO.	G273	GUARDIAN ELECTRIC
G226	GRAY, EDWARD, CO.	G296	GUARDSHARK (MARK LIPMAN DIV)
G227	GRAY, J.S. CO.	G274	GUILBERT, INC.
G217	GRAY-HODGES CORP	G302	GUILDLINE INSTRUMENTS, INC.
G230	GRAYBAR ELCC CO., INC.	G275	GUINARD PUMP COMPANY
G223	GRAYHILL	G312	GULF & WESTERN INDUSTRIAL PROD. CO.
G232	GRAYWOOD	G311	GULF & WESTERN MFG CO.
G235	GREAT LAKES CARBON CORP.	G280	GULF COMPUTER SCIENCES INC.
G236	GREAT LAKES CONSTRUCTION CO.	G285	GULF DEGREMONT INC (SEE D077)
G237	GREAT LAKES DREDGE & DOCK CO.	G295	GULF ENERGY & ENVIRONMENTAL SYS-TRIGA RCTR
G234	GREAT LAKES INSTRUMENTS INC.	G305	GULF GENERAL ATOMIC (SEE G063)
G238	GREAT SOUTHWEST PAPER CO.	G306	GULF OIL CORP.
G239	GREENECK FAN & VENTILATION CORP.	G281	GULF SEAL CORPORATION
G269	GREEN FAN CO.	G307	GULF STATES TUBE CORP.
G240	GREEN FUEL ECONOMIZER	G309	GULF STATES UTILITIES CO.
G245	GREEN, S. M. CO.	G308	GULF SUPPLY
G244	GREEN, R. CONSTRUCTION CO.	G310	GULF UNITED NUCLEAR FUELS CORP.
G246	GREENE, ARNOLD	G278	GULFALLOY CO.
G262	GREENS STEEL COMPANY	G303	GULFALLOY, INC.
G247	GREENVILLE TUBES	G313	GULFEX INC
G250	GREER HYDRAULICS, INC.	G277	GULFGATE ENGINEERING INC.
G233	GREER OLDER PRODUCTS DIVISION	G315	GULTON INDUSTRIES, INC.
G251	GREPCO, INC.	G317	GUMPERT, R.T.
G253	GREGORY SALISBURY METAL PRODUCTS, INC.	G318	GUNDERSON BROS ENGINEERING COMPANY
G252	GREKE HEATING CO.	G319	GUNDLACH, T.J. MACHINERY CO.
G248	GREMP STEEL	G316	GUNTERT AND EIMMERMAN
G289	GREEN MANUFACTURING CO.	G320	GUTH, EDWIN
G258	GRIFFIN CHEMICALS CO.	G340	GUYAN MACHINE CO.
G241	GRIFFIN ENVIRONMENTAL CO INC	G344	GUYON ALLOYS
G254	GRIFFIN PIPE PRODUCTS	G345	GUYON, CHARLES F. INC.
G243	GRIFFIN WHEEL CO.	H003	H & H STAINLESS MACHINE INC
G262	GRIFFOYLN	H054	H D ELECTRIC
G261	GRIMES PIPE AND SUPPLY	H177	H D R POWER SYSTEMS INC
G259	GRIMM LUMBER, INC.	H287	H T L INDUSTRIES INC
G255	GRINNELL CORP.	H004	H-H PRODUTCS
G256	GRINNELL FIRE PROTECTION	H279	H.P.D. INC.
G257	GRINNELL INDUSTRIAL PIPING, INC.	H179	HAAKE INC
G260	GRISCOM-RUSSELL	H005	HACH CHEMICAL CO.
G242	GRISWALD CONTROLS	H006	HACKER, KILL & LUMBER CO.
G263	GRITS BROS. MFG. CO.	H002	HACKENSACK BOLT & NUT CO INC
G264	GROB BROTHERS INCORP.	H007	HACKNEY IRON & STEEL CO.
G266	GROGAN COMPANY (LUFPLAND COMPANY)	H118	HAENNI INSTRUMENTS INC
G268	GROTH EQUIPMENT	H008	HAERING, D.W. AND CO.
G265	GROVE VALVE & REGULATOR CO.	H010	HAGAN CHEM & CONTROLS
G270	GROVER WATER COND CO.	H015	HAGAN CONTROLS

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CODE	VENDOR NAME	CODE	VENDOR NAME
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H021	HAGAN CORPORATION	H001	HARRINGTON INDUSTRIAL PRODS INC
H020	HAGAN/COMPUTER SYSTEMS	H057	HARRIS CONTROLS
H022	HAGER, WM	H058	HARRIS PREBLE CO.
H114	HAHN & CLAY MACHINE SHOP	H117	HARRISON & BONINI INC
H017	HAHN & CLAY MACHINE WORKS	H069	HARRISON & BONINI INC
H023	HAIG CO.	H060	HARRISON MANUFACTURING CO.
H028	HAJACK EQUIPMENT	H062	HARRISON RADIATOR DIV
H024	HAJOCA CORP.	H071	HARSCO CORP--IKG INDUSTRIES DIV
H012	HAKE, FRANK W. INC	H065	HARSHAW CHEMICAL CO.
H026	HALE FORDEN ASSOCIATED.	H070	HARSHMAN ASSOC., INC.
H016	HALES TESTING LABORATORIES	H078	HARTCO SERVICES INC.
H027	HALLER TESTING LAB	H072	HARTFORD STEAM BOILER CO.
H018	HALLIBURTON SERVICES	H073	HARTFORD VALVE & FITTING CO.
H052	HALMAR ELECTRONICS INC.	H076	HARTMAN & BROWN, AGY
H033	HALOY INDUSTRIAL SUPPLY CO.	H059	HARTMAN ELECTRICAL MFG (DIV A-T-OM INC)
H019	HALSEY-TAYLOR CO.	H074	HARTMAN WALSH PAINTING
H088	HALSTAD INDUSTRIES INC	H075	HARTMAN, WM E.
H182	HAMBLET & HAYES CO	H077	HARTWIG MFG CORP.
H011	HAMERSLAG EQUIPMENT CO.	H080	HARTY, R.V. DIV
H066	HAMILTON & SON	H081	HARTZELL PROPELLER FAN CO.
H051	HAMILTON INDUSTRIES	H084	HARVER INDUSTRIES, INC.
H025	HAMILTON MANUFACTURING CO.	H085	HARVESTORE PROD, INC.
H029	HAMILTON OF INDIANA	H086	HARVEY IND., INC.
H034	HAMILTON WATCH CO.	H087	HARWILL CO.
H031	HAMILTON WELDING COMPANY	H090	HARWOOD, INC.
H030	HAMILTON, G.V.	H095	HARZA, L.F. ENGG
H013	HAMILTON-AVNET ELECTRONICS	H097	HASKEL ENGINEERING
H032	HAMLIN	H098	HASKELL, WM. CO.
H035	HAMMEL DAHL	H099	HASTINGS RAYDIST
H064	HAMMOND VALVE CORP.	H108	HATCH CO., INC. GORDON
H036	HAMNER ELECTRONICS COMPANY, INC.	H111	HATCH INC.
H039	HAN, J.I. CO., INC.	H113	HATCO CORP.
H037	HANCOCK CO.	H104	HATFIELD & CO.
H067	HANDCRAFT METAL CORP	H106	HATFIELD ELECTRIC CO.
H040	HANDLEY-BROWN	H100	HATHAWAY INSTRUMENT
H038	HANDLING SYSTEMS INC.	H103	HATLEY, JOHN T., CO.
H053	HANFORD FOUNDRY CO.	H101	HATTER, N.J.
H041	HANKISON CORP.	H102	HAUGHTON ELEVATOR CO.
H042	HANSEN SUPPLY	H094	HAULENSTEIN & BURNHEISTER CO.
H048	HANSON, ROY E JR., MANUFACTURING	H005	HAUSERMAN, E.F. CO.
H043	HARCO CATHODIC PROTECTION DIVISION	H014	HAUSHAN STEEL CORP
H044	HARCO CORP.	H107	HAVEL BROS., INC.
H047	HARDING CO.	H109	HAVEN STEEL CO.
H049	HARDINGE CO., INC.	H110	HAVEN-BUSCH CO
H091	HARISONIC LABORATORIES INC	H096	HAWAIIAN ELBC CO INC
H045	HARLO CORP.	H112	HAWBY FORGE CO.
H046	HARNISCHFEGGER CORP.	H079	HAWKINS CO., INC. THE
H050	HARPER ELECTRIC FURNACE CORP.	H115	HAWS DRINKING FAUCET CO.
H055	HARPER INC.-ITT	H116	HAWTHORNE MACHINERY CO.
H056	HARPRING, ARTHUR C., INC.	H120	HAYDEN MFG CO.
H083	HARRINGTON CO	H122	HAYDEN SWITCH & INSTRUMENT INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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H125	HAYES CORP.	H160	HEWITT-ROBINS, INC.
H126	HAYES PUMP & MACHINE CO.	H165	HEWLETT-PARKARD CO.
H124	HAYES REPUBLIC CO.	H167	HEX INDUSTRIES, INC.
H121	HAYWARD MFG. CO. INC.	H176	HEXCEL CORP
H127	HAYWARD-TYLER PUMP CO.	H170	HEYL-PATTERSON, INC.
H089	HAEELTINE CORP	H171	HEYWOOD-WAKEFIELD CO.
H128	HCH ASSOCIATES	H175	HI-PURITY MATERIALS, INC.
H130	HEALEY, W.E. & ASSOC.	H180	HI-SHEAR CORP.
H135	HEALTH PHYSICS ASSOC., LTD.	H185	HI-VOLTAGE EQUIP
H168	HEALTH PHYSICS SYSTEMS, INC.	H187	HICKEY, FRED
H137	HEALY HUFF CO.	H178	HICKINBOTHAM BROS LTD
H123	HEALY, SNYDER, DEYOUNG & ASSOCIATES	H063	HICKOK ELECTRICAL INSTRUMENT CO.
H136	HEARST METALLURGICAL RESEARCH LAB., INC.	H189	HIEB, LEWIS H. CO.
H132	HEAT & POWER CORPORATION, INC.	H190	HIGH VOLTAGE ENGINEERING CORP.
H129	HEAT ENGINEERING & SUPPLY CO.	H173	HIGHLAND CONSTRUCTION CO., INC.
H131	HEAT TRANSFER PRODUCTS	H174	HIGHWAY EQUIPMENT CO.
H061	HEATH MANUFACTURING CO.	H186	HILDERBRANDT ENGINEERING CO., INC.
H142	HECO PACIFIC	H183	HILL BROS CHEMICAL
H148	HECON CORP.	H194	HILLER INTERNATIONAL CORP.
H134	HEEDE INTERNATIONAL INC.	H198	HILLER, RALPH A., CO.
H068	HEIDT EQUIP CO	H192	HILLERY, H.R. CO.
H119	HEIL PROCESS EQUIP (X-REF X012)	H191	HILLF-MCCANNA COMPANY (SEE H195)
H154	HEIN, LOUIS H. CO.	H193	HILLIARD CO.
H141	HEINEMANN ELECTRIC CO.	H195	HILLS-MCCANNA COMPANY (SEE H191)
H133	HEINE CONSTRUCTION INC.	H196	HILTI CORPORATION
H138	HEISE BOURDON TUBE CO.	H197	HILTI FASTENING SYSTEMS
H092	HELDMAN TOOL SUPPLY INC	H199	HIPOTRONICS INC
H139	HELGESON NUCLEAR SERVICES INC.	H201	HIRATA VALVE INDUSTRY CO., LTD (JAPAN)
H140	HELICOID GAGE CORP.	H203	HIRSCH, ARKIN, HERSHMAN (HAP SHT MTL)
H172	HELIX PROCESS SYSS	H202	HISEY-WOLF MACHINE CO.
H143	HELLAN STRAINER	H200	HITACHI ELECTRIC
H144	HENDERER	H205	HITCO-MATERIALS DIV
H166	HENDERS BOILER & TANK CO.	H210	HITMAN NUCLEAR & DEVELOPMENT CORP.
H153	HENDERSON ENGINEERING CO., INC.	H212	HOBART BROS. CO.
H161	HENDERSON INDUSTRIES	H209	HOBART MANUFACTURING CO.
H162	HENDRICKS TILE MFG CO., INC.	H211	HOCKER INC.
H145	HENDRIX WIRE & CABLE	H216	HODGES, WM CO INC
H159	HENKE MFG CO.	H206	HOERBIGER CORP OF AMER
H169	HENNES ERRECTING CO INC	H223	HOFFMAN AIR-FILTRATION, DIV CLARKSON INDUST
H146	HENRY NEWGARD AND CO. (SEE H141)	H213	HOFFMAN ENGINEERING
H158	HENRY VALVE CO.	H215	HOFFMAN INDUSTRIES
H147	HENRY, J.J. CO.	H220	HOFFMAN INTERNATIONAL, INC.
H150	HENSCHEL CORP	H221	HOFFMAN SPECIALTY (ITT)
H151	HERCULES CONCRETE PILE COMPANY	H222	HOHMANN & BARNARD, INC.
H149	HERCULES CONTAINER INDUSTRIES, INC.	H225	HOIST EQUIPMENT, INC.
H164	HERCULES, INC.-INDUSTRIAL SYSTEMS DEPT	H229	HOJ ENGINEERING
H156	HERRMANN & SAFRANCK	H230	HOKK, INC.
H152	HERRON TESTING LABORATORIES INC.	H231	HOLBROOK-HERRILL CO.
H163	HERSKY PRODUCTS, INC. (INDUSTRIAL MEASURE)	H224	HOLCOMB & HOKK MFG CO., INC.
H155	HERTNER, H. H. ELEC	H232	HOLLERAN, M.J., INC.
H157	HEVI-DUTY ELECTRIC CO.	H233	HOLLINGSWORTH SOLDERLESS TERMINAL CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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H235	HOLLISTER-WHITNEY	H296	HUBBELL, HARVEY INC.
H240	HOLMES & HARVER, INC.	H292	HUDGINS, ROBERT S., CO.
H239	HOLMES, H.H. LABS	H259	HULSON FABRICATING & ENGINEERING CO.
H246	HOLO-KROME CO.	H291	HUDSON PRODS CORP
H245	HOLOBEAM INC.	H298	HUEBSCH
H249	HOLOPHANE CO., INC.	H300	HUGHES ELECTRONICS
H250	HOLOSONICS, INC.	H294	HUGHES MASONRY CO., INC.
H247	HOLSTER CONSTRUCTION INC.	H305	HUICO, INC.
H252	HOLT BROS.	H310	HULL ASSOCIATES
H255	HOLTEEN-CABOT ELEC	H306	HUMBOLT MFG CO.
H253	HOLWERDA-HUIZINGA CO.	H301	HUMMEL BLDG CO.
H254	HOLI RUBBER CO.	H312	HUMPHREY ELEVATOR & TRUNK CO.
H257	HOMESTEAD INC. - VALVE DIV	H315	HUNGERFORD & TERRY, INC.
H243	HONALD, R.P. CO INC	H286	HUNT PROCESS CO., INC.
H260	HONEYWELL CORP.	H308	HUNT VALVES
H236	HONN, GEORGE E. CO.	H309	HUNT, C.B. & SON
H281	HOOVER CONSTRUCTION CORP.	H316	HUNT, ROBERT W.
H273	HOOVER CONSTRUCTION CORP.	H313	HUNT, RODNEY CO.
H264	HOOVER FABRICATING	H307	HUNTER CORPORATION
H263	HOOVER QUALITY BALL BEARING CO.	H093	HUNTERS STEEL CORP
H258	HOPKINSONS LIMITED	H314	HUNTINGTON ALLOY COMPANY
H241	HOPFER INC.	H304	HUNTOON CORP.
H248	HORN, A.C., INC.	H322	HUPP CORP.
H242	HORSBURGH & SCOTT COMPANY	H318	HURON INDUSTRIES
H259	HORTON PROCESSING DIVISION INC.	H324	HURON PORTLAND CO.
H256	HOSEA CO.	H327	HURST METALLURGICAL RESEARCH LABORATORY INC.
H274	HOTMIX INC.	H337	HURST-ROSCHKE ENGINEERING, INC.
H272	HOUDAILLE INDUSTRIES INC.	H319	HUSKY PRODUCTS
H276	HOUGH MFG CORP.	H317	HUSSMAN SAN FRANCISCO, INC.
H303	HOUGHTON CHEMICAL CORP.	H326	HUSSMANN REFRIGERATION, INC.
H262	HOUSE OF STAINLESS STEEL INC.	H311	HUTCHINSON & GUNTER
H251	HOUSTON FABRICATORS	H302	HUTTER CONSTRUCTION CO.
H271	HOUSTON FASTENERS	H323	HUYCK METALS CO.
H265	HOUSTON INSTRUMENT CO.	H329	HY-CAL ENGINEERING CO.
H269	HOUSTON LIGHTING & POWER CO.	H321	HYBRID SYSTEMS INC.
H267	HOWARD M. H. CO.	H332	HYDR-O-MATIC PUMP COMPANY
H268	HOWARD STEEL COMPANY	H320	HYDRAMET AMERICAN, INC.
H266	HOWARD, C.E. CORPORATION	H325	HYDRAULIC RESEARCH
H261	HOWDEN-PARSONS, LTD.	H082	HYDREL CORP
H270	HOWE-RICHARDSON SCALE	H330	HYDRIL
H275	HOWELL ELEC MOTORS	H334	HYDRO DYNAMICS
H282	HOWELL INSTRUMENTS, INC.	H343	HYDRO LINE MFG CO.
H277	HOYT MFG CORP.	H333	HYDRO METAL INC.
H278	HOYT-GRANT CO.	H344	HYDRO PRODUCTS
H280	HR FILTERS	H336	HYDRO RESEARCH SCIENCE SERVICE
H285	HRB	H328	HYDRO STEAM INDUSTRIES, INC.
H009	HRM CONTROLS	H335	HYDRO-ASH CORP.
H290	HRUDEN LABORATORY PRODUCTS	H331	HYDROAIRE INC.
H293	HT PRODUCTS	H338	HYDROCHEM CORPORATION
H295	HUBBARD & CO.	H340	HYDRODYNE
H297	HUBBEL PROBES	H339	HYDROFLO CORPORATION

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CODE	VENDOR NAME	CODE	VENDOR NAME
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H341	HYDROMATION ENGINEERING CO.	I109	INDIANA FIRE PREVENTION INC
H342	HYDROMATION FILTER CO.	I026	INDIANA GENERAL
H345	HYER INDUSTRIES INC.	I166	INDIANA GRATINGS INC
H350	HYGRODYNAMICS INC.	I167	INDIANA STEEL FABRICATING INC
H349	HYGROMETRIX, INC.	I033	INDIKON
H181	HYSpan PRECISION PRODUCTS INC	I034	INDUSTRIAL ACOUSTICS CO., INC.
I213	I U CONVERSION SYSTEMS INC.	I038	INDUSTRIAL AIR CO.
I005	I-T-E CIRCUIT BREAKER	I050	INDUSTRIAL AIR TOOL
I203	I-T-E CIRCUIT BREAKER (CANADA)	I062	INDUSTRIAL AIR, INC.
I179	I.R.C.	I112	INDUSTRIAL ALLOYS INC
I004	I.T.E IMPERIAL POWER EQUIPMENT CO.	I036	INDUSTRIAL BIO-TEST LABORATORIES, INC.
I007	I.T.T. BARTON, INC.	I035	INDUSTRIAL BROWNHOIST
I010	IBM CORP.	I056	INDUSTRIAL CLEAN AIR
I121	ICN PHARMACEUTICALS INC	I037	INDUSTRIAL CONCEPTS CORP.
I073	IDF PROCESS CORP. (NOISE CONTROL DIV)	I099	INDUSTRIAL CONTRACTOR INC
I008	IDEAL CABINET CO., INC.	I043	INDUSTRIAL DESIGN INCORP.
I011	IDEAL ELECTRIC AND MANUFACTURING CO.	I040	INDUSTRIAL ELEC & TRANS
I012	IDEAL FORGING CO.	I039	INDUSTRIAL ELECTRIC REELS INC.
I014	IDEAL TOOL AND MANUFACTURING	I041	INDUSTRIAL ELECTRICAL MANUFACTURING, INC.
I009	IDENTIPRINT CO.	I054	INDUSTRIAL ELECTRICAL WORKS
I013	IKG INDUSTRIES	I045	INDUSTRIAL ENGINEERING AND EQUIPMENT
I015	ILC TECHNOLOGY	I042	INDUSTRIAL ENGINEERING CONSTRUCTION SVC.
I016	ILG ELECTRICAL & VENTILATING CO.	I051	INDUSTRIAL ENGINEERING WORKS
I017	ILG INDUSTRIAL	I046	INDUSTRIAL ERECTORS INC.
I074	ILLINGWORTH ENGG INC	I059	INDUSTRIAL FABRICATING, INC.
I123	ILLINI COMPUTER SITE CONTRACTORS	I044	INDUSTRIAL FIBERGLASS INC.
I001	ILLINOIS BEARING CO.	I047	INDUSTRIAL FILTER CO.
I002	ILLINOIS BELL TELEPHONE	I048	INDUSTRIAL INSPECTION INC.
I018	ILLINOIS ENVIRONMENTAL PROTECTION AGENCY	I053	INDUSTRIAL INSTRUMENT
I023	ILLINOIS PAINTING CO.	I052	INDUSTRIAL MATERIALS CORP.
I024	ILLINOIS POWER CO.	I049	INDUSTRIAL MECHANICS
I022	ILLINOIS RAILWAY EQUIPMENT CO.	I050	INDUSTRIAL NUCLEONICS CORP.
I020	ILLINOIS WATER TREATMENT CO.	I061	INDUSTRIAL PLASTIC FABRICATORS, INC.
I216	IMAGE SYSTEM INC.	I055	INDUSTRIAL PROCESS ENGINEERING
IC25	IMEACON CONSULTANTS	I060	INDUSTRIAL REACTOR LABORATORIES, INC.
I006	IMPERIAL COATING OF TEXAS	I065	INDUSTRIAL RUBBER PRODUCTS
I003	IMPERIAL COATINGS CORP.	I064	INDUSTRIAL SALES CO.
I030	IMPERIAL ELEC. CO.	I066	INDUSTRIAL SERVICE CO.
I019	IMPERIAL PROFESSIONAL COATING	I067	INDUSTRIAL STAINLESS STEEL, INC.
I029	IMPERIAL STEEL TANK CO.	I136	INDUSTRIAL STEAM DIV
I124	IMPERIAL WELD RING CORP	I063	INDUSTRIAL TIMER CORP.
I027	IMPERIAL-EASTMAN CORP.	I068	INDUSTRIAL VALVE & INSTRUMENT CO.
I171	IN-VAL-CO	I057	INDUSTRIAL WELDING EQUIP CO.
I021	INCOR INSTRUMENTATION INC.	I214	INDUSTRIAL WELDING EQUIP SUPPLY CO (IWECO)
I079	IND AIR PRODS INC	I071	INFILCO DEGREMONT, INC.
I098	IND SOLID STATE CONTROLS INC	I069	INFILCO, DIV WESTINGHOUSE
I031	INDESCO	I072	INFLO RESOMETRIC SCALES, INC.
I097	INDEPENDENCE TUBE CORP	I154	INGALLS ASSOC
I132	INDEX POWER EQUIP CO	I070	INGALLS IRON WORKS
I032	INDIANA & MICHIGAN ELECTRIC CO.	I075	INGERSOLL-RAND CO.
I028	INDIANA BRIDGE CO.	I153	INGERSOLL JOHNSON STEEL CO

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CODE	VENDOR NAME	CODE	VENDOR NAME
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I076	INLAND INDUSTRIAL BLDG	I142	INTERNATIONAL POWER MACHINES CORP.
I077	INLAND STEEL	I143	INTERNATIONAL RECTIFIER
I122	INMAC-INT'L MINICOMPUTER ACC. CORP	I133	INTERNATIONAL SENSOR TECHNOLOGY
I080	INRYCO, INC(INLAND-EYERSON CONST PROD CO)	I145	INTERNATIONAL STACEY
I085	INSTITUTE FOR RESOURCE MANAGEMENT, INC.	I148	INTERNATIONAL STEEL CO.
I083	INSTITUTE OF ELECTRICAL & ELECTRONIC ENG.	I141	INTERNATIONAL SUPPLY
I081	INSTITUTE OF NUCLEAR POWER OPERATIONS	I147	INTERNATIONAL SWITCHBOARD CORP.
I082	INSTITUTIONAL EQUIPMENT CORPORATION	I149	INTERNATIONAL TELEPHONE & TELEGRAPH CORP.
I086	INSTRUMATICS INC.	I150	INTERNATIONAL THERMAL INSTRUMENT CO.
I094	INSTRUMENT AIR	I152	INTERPACE CORP/PULSE FEEDER DIVISION
I087	INSTRUMENT ASSOC.	I159	INTERSTATE ELECTRIC CONTRACTING INC
I093	INSTRUMENT SPECIALTIES	I155	INTERSTATE INDUSTRIAL UNIFORM RENTAL SERV.
I088	INSTRUMENT SYSTEMS CO.	I160	INTERSTATE LAUNDRY & DECONTAMINATION SERV.
I090	INSTRUMENT TECHNOLOGY, INC.	I161	INTERSTATE POWER CO.
I092	INSTRUMENTATION LABORATORY INC.	I163	INTERSTATE STEEL SUP CO
I091	INSTRUMENTS CORPORATION OF AMERICA	I162	INTERTEC CORP.
I089	INSTRUMENTS DISPLAY INC.	I165	INTERTECHNIQUE INSTRUMENTS, INC.
I084	INSTRUMENTS INC.	I144	INTEX, INC.
I095	INSUL-8-CORP.	I170	INTSEL CORP.
I157	INSULATION SVSS INC	I172	INVENTORY SERVICES PLANNING GROUP
I100	INSULATION SYSTEMS INC.	I174	INVENTRON
I104	INTECH, INC.	I173	INVENTRON INDUSTRIES INC.
I164	INTECO	I169	ION TRACK INSTRUMENTS, INC.
I106	INTEGRAL BONDING SYSTEMS	I175	IONICS, INC.
I101	INTEGRAL STRUCTURES CO.	I201	IOSSI, EDQIN W. PAINTING & DECORATING INC.
I119	INTEL CORP	I177	IOWA ELECTRIC LIGHT & POWER CO.
I102	INTELCOM RAD TECH	I178	IOWA VALVE CO.
I107	INTELLIGENT SYSS CORP	I180	IPAC GROUP, INC.
I113	INTERCONTINENTAL CONSTRUCTION CO.	I078	IFSCO CORP (IND PIPING SUP CO)
I103	INTERDATA, INC.	I191	IRD MECHANALYSIS
I105	INTERDEVELOPMENT, INC.	I186	IRON & STEEL CONTRACTING CO.
I110	INTEREX CORP.	I217	IRON MOUNTAIN SECURITY STORAGE CORP.
I096	INTERIOR STEEL EQUIP CO	I101	IRSAI, ROBERT, INC.
I114	INTERLOCK CORPORATION	I193	IAT CORP
I111	INTERMATIC INC.	I183	IRWIN STEEL
I108	INTERMOUNTAIN PETROLEUM CO	I184	ISETT, C.B., & SON, INC.
I117	INTERNATIONAL CAR CO.	I182	ISHIKAWAJIMA HARIMA INC. (IHI-JAPAN)
I115	INTERNATIONAL CHEMICAL & NUCLEAR CORP.	I185	ISOLAB INC.
I116	INTERNATIONAL CORP.	I190	ISOMEDIX, INC.
I118	INTERNATIONAL CRYSTAL MFG CO.	I195	ISOMET CORP.
I120	INTERNATIONAL DERRICK	I196	ISOTHERM CO.
I129	INTERNATIONAL EQUIPMENT	I197	ISOTHERMICS INC.
I128	INTERNATIONAL FABRICATORS INC.	I200	ISOTOPE PRODUCTS LABORATORIES
I125	INTERNATIONAL HARVESTER	I187	ISRAEL ELECTRIC CO
I126	INTERNATIONAL INDUSTRIAL FAN INC	I188	ISRAEL ELECTRIC CORP LTD (ISRAEL)
I130	INTERNATIONAL INSTRUMENTS, INC.	I202	ITE IMPERIAL CORPORATION
I131	INTERNATIONAL IRON WORKS INC.	I212	ITE/GOULD
I132	INTERNATIONAL METAL PRODUCTS, INC.	I205	ITHACO, INC.
I135	INTERNATIONAL NUCLEAR CO.	I215	ITT CANNON ELECTRIC CO.
I137	INTERNATIONAL NUCLEAR SAFEGUARDS INC.	I211	ITT FLUID HANDLING DIVISION
I140	INTERNATIONAL NUTRONICS, INC.	I206	ITT GENERAL CONTROLS

CODE	VENDOR NAME	CODE	VENDOR NAME
1207	ITT GRINNELL	J050	JERSEY NUCLEAR CO., INC.
1192	ITT GRINNELL VALVE CO INC	J055	JESSOP STEEL CO.
1208	ITT HAMMEL DAHL COMOFLOW	J054	JET AERATION COMPANY
1194	ITT HARPER	J053	JET AIR INC
1156	ITT JENNINGS (ITT CP)	J056	JIM-MICHEL BLDG SPECIALTIES INC.
1198	ITT PHILLIPS DRILL CO.	J057	JO-BELL PRODUCTS
1209	ITT PHILLIPS DRILL DIVISION	J060	JOHNS-MANVILLE CORP.
1199	ITT PNEUMOTIVE	J065	JOHNSON & HIGGINS
1158	ITT PEGELUNGSTECHNIK (W. GERMANY)	J067	JOHNSON AIR BELT CLEANER
1210	ITT SUPERNANT	J070	JOHNSON ASSOCIATES INC, M.R.
1151	ITT SYNDER	J071	JOHNSON BLOCKS (DON HINDERLITER INC)
1218	ITT VULCAN ELECTRIC	J073	JOHNSON CONTROLS INC.
1204	ITT-BARTON	J072	JOHNSON CORP.
J013	J & K BOILER	J075	JOHNSON DIVISION, U.O.P.
J006	J & P PETROLEUM PRODUCTS	J076	JOHNSON ENGINEERING
J007	J.B.T	J077	JOHNSON FIREPROOF DOOR CO., INC.
J008	J.G. SALES CO., INC.	J080	JOHNSON GEAR
J032	J.S.G. ELECTRIC CO	J082	JOHNSON MACHINE WORKS
J009	JASCO PRODUCTS, ITT.	J085	JOHNSON MANUFACTURING
J001	JACOBY - TARBOX	J087	JOHNSON METAL HOSE INC.
J001	JACUSEI BROS. INC.	J090	JOHNSON SERVICE CO.
J003	JACUSEI TURBINE PUMPS	J088	JOHNSON SHEET METAL WORKS INC.
J068	JACO PUMP CO	J095	JOHNSON, ADOLPH
J004	JAKES FOUNDRY CO.	J081	JOHNSON, L. HARVIN & ASSOCIATES
J002	JAMCO-WESTON	J086	JOHNSON-MARSH CORPORATION
J005	JAMES & CO., FRED S.	J083	JOHNSON-MEIER CO.
J010	JAMES BURY CORP.	J093	JOHNSON-WILLIAMS
J016	JAMES, ALLAN P., CO., INC.	J096	JOHNSTON & JENNINGS CO.
J012	JAMES, POND & CLARK DIV	J100	JOHNSTON LABORATORIES, INC.
J017	JAMISON DOOR CO	J105	JOHNSTON PUMP CO.
J014	JANOB ASBESTOS	J107	JOLIET CONCRETE PRODUCTS
J018	JANOS INDUSTRIAL INSULATION CORP	J108	JOLIET ENGINEERING COMPANY
J015	JAPAN STEEL WORKS (JAPAN)	J106	JOLIET VALVES INC
J020	JARVIS ENGINEERING	J110	JONATHAN MANUFACTURING CO.
J023	JAY INSTRUMENT & SPECIALITY CO.	J112	JONES & LAUGHLIN
J021	JAY-EL PRODS INC	J113	JONES & MCKNIGHT, INC.
J025	JEFFERSON ELECTRIC	J123	JONES, HOWARD BATTERIES, INC.
J033	JEFFERY MANUFACTURING CO.	J111	JONES, J.A. CONSTRUCTION CO.
J030	JEFFERY-DEWITT INS CORP.	J119	JORDAN COMMERCIAL REFRIGERATION CO.
J031	JEFFERY HARDWARE INC	J115	JORDAN NUCLEAR CO.
J035	JELCO INC.	J114	JORDON CONTROLS CO.
J042	JENKINS & BOILER CO., INC.	J116	JORDON VALVE CO.
J034	JENKINS BROTHERS COMPANY	J109	JORDON, MICHAEL A. & ASSOCIATES
J036	JENKINS VALVE CORP.	J122	JORGENSEN & COMPANY
J041	JENKINS, W.L. CO.	J117	JORGENSEN EARLE M. COMPANY
J039	JENN INDUSTRIES	J121	JORTH HILLS ELECTRONICS
J038	JENN-AIR CORP.	J118	JOSAM CO.
J037	JENSEN INSTRUMENT	J120	JOSLYN MFG & SUPPLY
J040	JERGUSON GAGE & VALVE GO.	J125	JOSLYN STAINLESS STEELS
J045	JERPAK-BAYLESS CO.	J126	JOVY-LEER, DR. ING.
J047	JERSEY CENTRAL POWER & LIGHT COMPANY	J127	JOY MANUFACTURING CO.

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J128	JOY PETROLEUM EQUIPMENT CO.	X056	KEANE CONTROL CORP.
J124	JOY, CLARKE H., CO.	K040	KEARNEY, J.R.
J129	JPM INDUSTRIES	K044	KEARNY & TRUCKER
J130	JRB ASSOC., INC.	K041	KECKLEY, Q. C. COMPANY
J134	JULIAN ELECTRIC CO.	K043	KEELER & LONG
J136	JUNO INDUSTRIES	K046	KEELER, E. CO., (SABER BURNER DIV)
J137	JUST MANUFACTURING CO.	K053	KEENAN PIPE & SUPPLY CO.
J139	JUSTIN AMERICAN CORP.	K042	KEENE CORP.
J140	JUSTIN ENTERPRISE	K051	KEITH-FEIBUSCH ASSOCIATES, ENGINEERS
J138	JUSTIN TANKS	K045	KEITHLEY INSTRUMENTS, INC.
K172	K & K MACHINING, INC.	K047	KEL-HIN
K001	K V B EQUIPMENT CORP.	K089	KELLERS, INC.
K003	K-F DEVELOPMENT CO.	K049	KELLY BOARDS MCCORMACK EQUIPMENT CO.
K137	K.D.I. PYROFILM CORP	K052	KELLEY CO., INC.
K002	KACENA CO.	K055	KELLOGG, M.W. CO., THE
K006	KAHLISCO INTERNATIONAL CORP.	K050	KELLOGG-AMERICAN, INC.
K005	KAHN & CO.	K048	KELLY DOCK, MCCORMACK EQUIPMENT CO.
K007	KAISER ALUMINUM & CHEMICAL SALES, INC.	K060	KELLY PIPE CO.
K008	KAISER CEMENT & GYPSUM CORP.	K057	KELLY, CHARLES D., CO.
K010	KAISER ENGINEERS	K058	KELLY, D.H. CO.
K011	KAISER SAND & GRAVEL	K065	KELLY, O.G. CORP.
K012	KAISER STEEL CO.	K054	KELSO-BURNETT ELECTRIC CO.
K014	KAISS CO.	K066	KELVINATOR INC.
K015	KALAMAZOO T & S	K092	KEMCO UNIT CONTROL INC
K013	KALART VICTOR CORP	K064	KEMP MFG CO.
K016	KALWALL CORP.	K068	KEMP, C.M., CO.
K020	KAMAN SCIENCES CORP.	K070	KENCO, INC.
K009	KANSAS ARCHITECTURAL MILLWORK, INC.	K073	KENDALL
K024	KANSAS GAS & ELECTRIC CO.	K082	KENDRICKS TILE MFG CO., INC.
K107	KANSAS POWER & LIGHT CO (TOPEKA)	K067	KENEMATICS
K017	KANSAS SHEET METAL CO., INC.	K072	KENETT CORP.
K021	KANTO VALVE CO.	K074	KENNARD CORP.
K019	KANWELD WELD EQUIP & SUP CO	K059	KENNECOTT DEVELOPMENT CO.
K004	KARGARD IND INC	K076	KENNEDY TANK MANUFACTURING CO.
K028	KARKAR ELECTRONICS	K075	KENNEDY VALVE MFG CO.
K018	KARLESKINT-CRUM INC	K029	KENNEDY VAN SAUN CORPORATION
K026	KARN CHEMICAL EQUIPMENT CO.	K063	KENOM CO.
K027	KARTHAUSER CO.	K062	KENOSHA BOILER & STRUCTURAL CO.
K023	KATELEMAN FOUNDRY	K077	KENTILE, INC.
K022	KATES, W.A. CO.	K069	KENTON EQUIPMENT CO.
K025	KATO ENGINEERING	K109	KENTUBE DIVISION (TRANTR INC)
K030	KAVLICO ELECTRONICS INC.	K071	KENTUCKY CONCRETE PIPE CO.
K031	KAW VALVE & FITTING CO.	K091	KENTUCKY ELEC STEEL CO
K035	KAWECKI BERYLCO INDUSTRIES, INC.	K061	KENTUCKY METAL PRODUCTS CO.
K037	KAWIN, CHARLES C., CO.	K087	KENTUCKY UTILITIES CO.
K033	KAWNEER CO., INC.	K086	KENWAY, INC.
K038	KAWNEER-LOCKWOOD GLASS	K084	KENEAC COMMUNICATIONS
K036	KAY DEE	K079	KEOHIG, C.J., CO., INC.
K032	KAY-RAY INC.	K078	KEPCO
K034	KAYE INST. INC.	K094	KEPNER PROD
K039	KAYRO PRECISION CASTING CORP.	K080	KERITE CO., THE

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CODE	VENDOR NAME
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K093	KERN STEEL FABRICATION INC
K083	KEROTEST CONSOLIDATED
K085	KEROTEST MANUFACTURING CORP.
K090	KERR MACHINERY CO.
K095	KERR-MCGEE CORP.
K100	KERRIGAN IRON WORKS
K101	KESLING METAL WORKS
K103	KESSELER-ELLIS PRODUCTS CO.
K091	KESTRING PRODUCTS
K102	KEUFFLE & ESSER
K105	KEVEX CORP.
K110	KEWAUNEE MFG
K115	KEWAUNEE SCIENTIFIC EQUIPMENT CORP.
K108	KEY PIPE & SUPPLY CO
K113	KEYLAND NAME PLATE INC.
K114	KEYSTONE COMPRESSOR CO.
K112	KEYSTONE ELECTRICAL MANUFACTURING COMPANY
K106	KEYSTONE GROUP
K117	KEYSTONE PIPE AND SUPPLY CO
K118	KEYSTONE REES INC.
K116	KEYSTONE VALVE CO.
K119	KICKHAM BOILER & ENGINEERING, INC.
K120	KIDDE, WALTER & CO.
K125	KIELLY & MUELLER CO.
K121	KIENE DIESEL ACCESSORIES, INC
K123	KIERULFF ELECTRONICS, INC.
K124	KIEWIT, PETER & SONS CO.
K126	KILLEBREW ENGINEERING CORP.
K136	KILSBY TUBESUPPLY
K129	KIM HOTSTART MFG CO.
K127	KINMERLE BROS.
K128	KINCO INC.
K130	KINEMATICS, INC.
K122	KINETICS SYSS CORP INC
K133	KING NUTRONICS CORP.
K141	KING, T.E. CO.
K149	KING-FISHER CO.
K131	KING-KNIGHT CO.
K132	KING-LAR CO.
K135	KING-SEELEY THERMOS CO.
K139	KINGMANN-WHITE, INC.
K138	KINGSBURY INC.
K140	KINGSBURY, ALBERT
K134	KINGSTON IND CORP
K098	KINGSTON, F. C. CO
K147	KINNEAR CORP.
K145	KINNEAR MANUFACTURING
K146	KINNEAR STEEL ROLLING DOORS
K142	KINNEY ELECTRICAL MFG CO.
K144	KINNEY VACUUM CO.
K143	KINNEY, S.P. ENGINEERING, INC.

CODE	VENDOR NAME
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K148	KIRBY BLDG SYSTEMS
K097	KIRBY, H. J. CORP
K150	KIRK & BLUM
K155	KIRK, MORRIS F. & SONS, INC.
K160	KIRKHOF ELECTRIC
K165	KIROMAC MANUFACTURING
K167	KIRSCH, VIC, CONSTRUCTION CO., INC.
K168	KISSICK CORP.
K170	KISTLER INSTRUMENT CO.
K164	KISTLER-HORSE CORP.
K171	KITE CO.
K156	KLAUS RADIO INC
K173	KLAUS, F. CO.
K088	KLEIN DICKERT OSHKOSH, INC.
K175	KLEIN, SCHANELIN AND BECKER
K176	KLEM METAL GRATING CORPORATION
K179	KLEMP CORP ENGINEERING & MFG
K177	KLEMP METAL GRATING CORP.
K180	KLEMP, WILLIAM F. CO.
K181	KLINGER STEEL CO.
K182	KLOCKNER-MOELLER
K183	KNAPP HILLS CO.
K186	KNAPP, WALTER OF WISCONSIN
K229	KNAPP, WILLIAM A., CO.
K163	KNAUF FIBER GLASS GMBH
K178	KNICKERBOCKER ROOFING ASSOCIATION
K158	KNIGHT, MAURICE A. CO
K151	KNITTER, RAY ASSOC INC
K174	KNOPP, INC.
K187	KOBK CO.
K187	KOCK ENGINEERING CO.
K231	KODATA, INC.
K190	KODEL ELECTRIC & MFG CO.
K096	KOERNER ELECTRIC MOTORS
K192	KOERNER, LERSCH, KAEFIELD
K161	KOESTER & ASSOC., INC.
K193	KOHLER CO.
K195	KOLLMORGEN CORP.
K227	KOMAREK, K.R., INC.
K196	KOMLINE-SANDERSON ENGINEERING CORP.
K197	KONTRO CO., INC.
K241	KOOLTRONIC OF CALIFORNIA INC
K188	KOOR METAL INDUSTRIES
K191	KOPPERMAN INDUSTRIES
K200	KOPPERS CO., INC.
K239	KORFUND DYNAMICS CORPORATION
K226	KORY-ACCURATE ELECTRONICS CO.
K198	KOUCH ENGINEERING
K169	KRACK CORP.
K238	KRAISSL CO., INC.
K203	KRAHER, F.C.

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CODE	VENDOR NAME
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K214	KRAMIG, R.E. & CO., INC.
K199	KRANCO, INC.
K221	KRAUS & NAMIER
K213	KRAUS SHEETMETAL WORKS INC.
K204	KRAUSS, JOHN F., CO.
K223	KRAUSS, S.G., CO., INC.
K162	KRAUTKRAMER-BRANSON, INC.
K189	KREBS ENGINEERS
K228	KRENE & CO., INC.
K233	KRESTON CORP.
K206	KREZ, PAUL J., CO.
K184	KRIEGER STEEL PRODUCTS
K201	KRISTAL ASSOC.
K194	KROHNE PORTER
K157	KROHNE-AMERICA
K207	KROPP STEEL COMPANY
K202	KROUGH PUMP CO.
K208	KRUEGER MFG CO.
K224	KRUSE METALS MANUFACTURING CO.
K217	KRUZ & ROOTS CO.
K205	KSB PUMP SULZER BROS. CO.
K209	KSM PRODUCTS, INC.
K211	KSM WELDING SYSTEM DIVISION
K232	KTA-TATOR ASSOC., INC.
K219	KUBIC ENGINEERING COMPANY
K210	KUBOTA, LTD. (JAPAN)
K216	KUEMPEL CO.
K166	KUETTEL, A. W. & SONS INC.
K212	KUPFER IRON WORKS
K215	KUHLMAN ELECTRIC CO.
K218	KUHNE-SIMMONS
K220	KULITE SEMICONDUCTOR PRODUCTS INC.
K225	KULITE TUNGSTEN CO.
K230	KULJIAN CORP., THE
K234	KULKA ELEC CORP
K235	KUNKLE VALVE CO.
K222	KUPFER, THEO IRON WORKS, INC.
K236	KURIMOTO IRON WORKS LTD.
K240	KURE INSTRUMENT INC
K237	KYNEX CORP.
L002	L & A CO.
L009	L & A PRODUCTS, INC.
L007	L & M - SURCO MANUFACTURING CO.
L005	L & S MACHINE CO., INC.
L010	L N D, INC.
L003	L. A. WATER CONDITIONING
L006	L. A. WATER SOFTENER COMPANY, INC.
L004	L. A. WATER TREATMENT-DIV CHROMOLLOY AMER
L008	L.G. & M. CO.
L014	LA FORCE HARDWARE & MFG CO.
L015	LA MARCHÉ MFG CO.

CODE	VENDOR NAME
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L016	LAB-LINE INSTRUMENTS
L017	LABARGE TUBULAR DIV LTD.
L022	LABCONCO CORP
L019	LABORATORY EQUIPMENT CO.
L018	LABORATORY FURNITURE CO.
L020	LABOUR CO.
L023	LACLEDE STEEL CO.
L024	LADWIC CO.
L025	LADISH CO.
L028	LAHR ELECTRIC MOTORS
L021	LAIRD DE VOU INC
L027	LAKE COUNTY SUPPLY
L032	LAKE ENGINEERING CO.
L030	LAKE ERIE ELECTRIC
L037	LAKE ONTARIO STEEL CO LTD
L033	LAKE STATES ENGINEERING CORP.
L020	LAKELANDS CONCRETE PRODUCTS INC
L035	LAKESIDE BRIDGE & STEEL CO.
L034	LAKESIDE WIRE & IRON CO
L036	LAKO MANUFACTURING CO.
L013	LAMAN-LOESCHE SUPPLY CO INC
L040	LAMAR PIPE CO.
L045	LAMBDA ELECTRONICS
L050	LAMCO INDUSTRIES, INC.
L052	LAMESA TOOL & MANUFACTURING CO.
L053	LAMONS METAL GASKET CO.
L051	LAMSON DIVISION DIBBOLD CORP.
L055	LANCASTER IRON WORKS
L060	LANCE IRON WORKS
L064	LAND CONSTRUCTION CO., INC.
L065	LANDAUER, R. S. JR. & COMPANY
L066	LANDEL, INC.
L072	LANDMAYER STEEL CO.
L070	LANDSVERK CORP.
L074	LANG, WILLIAM & SONS CO.
L073	LANGENFELDEN, C.S. & SONS, INC.
L075	LANSING STEEL CORP.
L080	LAPP ENGINEERING CO.
L085	LAPP INSULATOR CO.
L011	LARAMORE, DOUGLASS, POPHAM, INC.
L079	LARCO INCORPORATED
L076	LARK ENGINEERING CORP.
L078	LARRANCE TANK CORP.
L082	LARRSON-LANE
L077	LARSE CORP.
L081	LARSEN PRODUCTS CORP.
L084	LASHER SUPPLY CO.
L083	LASKER BOILER & ENGINE COMPANY
L086	LATROBE STEEL CO.
L038	LATTNER, P.M. MFG CO
L001	LAU INDUSTRIES

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CODE	VENDOR NAME	CODE	VENDOR NAME
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L087	LAURENCE, R.G. CO., INC.	L173	LESMAH INSTRUMENT CO.
L091	LAURENT CORPORATION	L175	LESTER EQUIP CO.
L097	LAVAL, CLAUDE CORP	L182	LEUPOLD & STEVENS INSTRUMENTS INC
L089	LAW ENGINEERING TESTING CO.	L177	LEVERANCE ELEC MOTOR SVS INC
L088	LAWRENCE PUMPS INC.	L176	LEVINSON STEEL CO.
L090	LAYNE NORTHERN	L183	LEVY, S. INC
L092	LAYNE WESTERN CO.	L178	LEWIS BROS BATTERY CO.
L095	LAYKE-BOWLER, INC.	L179	LEWIS ENGINEERING CO.
L096	LBA, INC.	L181	LEXINGTON STANDARD CORP.
L012	LCN CLOSERS	L180	LEYBOLD-HERARUS INC.
L108	LE BLAND INC.	L185	LFE CORP.
L100	LEAHY CO.	L190	LFE ENVIRONMENTAL ANALYSIS LABS
L109	LEAK DETECTION SVCS INC CO	L193	LIBBY-OWENS-FORD GLASS CO.
L105	LEAR SIEGLER, INC.	L195	LIBERTY AERO
L110	LEATHERMAN	L191	LIBERTY EQUIPMENT & SUPPLY CO.
L111	LEAVELL DRAGO	L206	LICON DIVISION (ILLINOIS TOOL WORKS INC.)
L119	LEAVINES ELECTRICAL TRACING CO.	L184	LIDDELL IND INC
L112	LEBANON STEEL FOUNDRY	L186	LIEBERT CORP
L113	LEBLOND, R.K., MACHINE TOOL CO.	L204	LIEBOVICH BROS. & CO., INC.
L114	LECKENBY CO.	L196	LIFT ALL CO.
L115	LECROY RESEARCH SYSTEMS CORP.	L203	LIFT INC.
L118	LECTRODRYER	L199	LIGHTNING AGITATOR CO.
L121	LEDEEN	L201	LIGHTNING CO.
L120	LEDOUX & CO.	L192	LIGHTNING MIXERS
L122	LEE C. MOORE CORP. (SEE M428)	L194	LIGHTRON CO. OF CORNWALL
L125	LEE METAL PRODUCTS CO.	L200	LIMITORQUE CORP.
L123	LEECO PRECISION SPRING MFG CO.	L202	LIN-DON
L130	LEEDS & NORTHRUP CO.	L198	LINBLAD CONSTRUCTION CO.
L131	LEESON ELECTRIC CORP.	L205	LINCOLN ELECTRIC CO.
L135	LEFFELL, JAMES CO.	L207	LINDAHL BROS.
L116	LEGGE & ASSOCIATES, INC.	L210	LINDBERG
L136	LEHIGH CEMENT CO.	L212	LINDBLAD CONSTRUCTION CO
L137	LEHIGH STRUCTURAL STEEL CO.	L215	LINDE DIV
L138	LEHIGH UTILITY ASSOC INC	L208	LINDEN-ALIMAK, A.B.
L140	LEICO INDUSTRIES, INC.	L209	LINDRE (TUBE FABRICATING EQUIPMENT)
L142	LEIGHTON ST.	L213	LINDSEY MFG CO INC
L141	LEINARTS INC	L220	LINE MATERIAL INDUSTRIES
L145	LEITELT IRON WORKS	L221	LINGO, JOHN E., & SON
L146	LEKTRODRYER CO.	L230	LINK, HERBERT D.
L147	LELAND	L225	LINK-BELT CO.
L149	LEM PRODUCTS	L211	LINTERN CORP
L148	LENAPE FORGE	L229	LIPPS-JAKUBIK & ASSOC.
L153	LENOX INDUSTRIES INC.	L231	LIPS SPLICING SERVICE
L150	LENOX INSTRUMENT CO.	L239	LIQUID AIR
L152	LENE CO.	L236	LIQUID CARBONIC CORP.
L154	LEOPOLD, F. B. COMPANY, INC.	L222	LIQUID CONTROL CORP.
L155	LEOPOLD, VOLPEL & CO.	L247	LIQUID DRIVE CORP.
L165	LERMA ENGINEERING CORP. (SEE L160)	L233	LIQUID DYNAMICS CORP.
L160	LERMA ENGINEERING CORP. (SEE L165)	L242	LIQUID LEVEL ELECTRONICS
L170	LESLIE CO.	L189	LIQUID PROCESSING SYSTEM INC.
L171	LESLIE-ELLIOTT CO.	L197	LIQUID SYSTEMS

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CODE	VENDOR NAME	CODE	VENDOR NAME
L235	LIQUIDMETER CORP.	L297	LUMDTKE ENGINEERING CO
L237	LIQUIDONICS INC.	L286	LUFKIN INDUSTRIES INC.
L234	LIST & CLARK CONSTRUCTION CO.	L287	LUHR, EUGENE & CO.
L216	LISTER DIESELS INC (HAWKER SIDDELEY)	L290	LUKENS STEEL CO.
L228	LITHONIA	L296	LUMALITE PRODS CO
L226	LITTLE GIANT PUMP CO.	L289	LUMENITE ELECTRONIC CO.
L249	LITTLE L.L. & ASSOC.	L288	LUMINEERING SALES & SERVICE CO.
L227	LITTLE, R.H. CO.	L292	LUMINOUS CEILINGS, INC.
L219	LITTLEFORD BROS INC	L291	LUMMUS CO.
L223	LITTLEPUSH INC	L293	LUNDEEN COATINGS CORP.
L232	LITTON INDUSTRIES	L295	LUNDELL CONTROLS - TECHNOLOGY INC.
L244	LIVERS BRONZE COMPANY	L300	LUNKENHEIMER CO., THE
L238	LIE INDUSTRIAL SALB& CO.	L305	LUPTON, DAVID & SONS
L240	LOCHINVAR WATER HEATER	L214	LYCC-EF
L241	LOCK JOINT PIPE CO.	L319	LYNAIR HYDRAULICS/CYLINDER DIV
L245	LOCKE DEPT, GE CO.	L312	LYNAIR INC.
L246	LOCKE INSULATORS INC.	L306	LYNCH COMMUNICATION
L250	LOCKHEED	L320	LYON METAL PPRODUCTS, INC.
L218	LOCKPORT STEEL FABRICATORS INC	L322	LYONS HARDWARE & CO.
L251	LOCKWOOD-JONES & BEALS	M002	M & F BUILDERS & SUPPLY CO.
L248	LODGE-COTTRELL CO.	M032	M & F BUILDERS SUPPLY, INC.
L252	LOGAN MFG CO	M003	M & H GATE VALVES
L255	LOMAX INC.	M006	M & H SHEET METAL
L260	LOMBARD GOVERNOR	M068	M & R CONTRACTING
L268	LONE STAR CO.	M029	M & S PIPE & SUPPLY CORP.
L271	LONE STAR INDUSTRIAL SUPPLY COMPANY	M028	M D A SCIENTIFIC, INC.
L272	LONE STAR SCREW CO.	M005	M G SCIENTIFIC
L263	LONEGAN, J.E., CO. (SEE L265)	M516	M L B INDUSTRIES INC
L265	LONEGAN, J.E., CO. (SEE L263)	M001	M-D PNEUMATICS, INC.
L254	LONG AIRDOX CO	M004	H.A.W. (MASCHINENFABRIK, AUGSBURG-MURBERG)
L243	LONG BLOCK & SUPPLY CO., INC.	M203	MAC DONALD ENGINEERING CO.
L267	LONG ISLAND LIGHTNING CO.	M031	MAC VALVES, INC.
L266	LONGHORN INDUSTRIES & CO.	M034	MAC-PAB PRODUCTS, INC.
L273	LONGICE	M021	MACAULAY CONTROLS CO.
L217	LOOMIS EQUIP CO	M164	MACCAPFRAY CO.
L276	LOPREST CO	M067	MACB CORP
L270	LORAIN PRODUCTS CORP.	M008	MACHINERY & ELECTRIFICATION, INC.
L274	LORD CORP.	M007	MACK IRON WORKS CO.
L269	LORD ELECTRIC	M009	MACKIN SALES CO.
L275	LOTEPRO CORP.	M018	MACKWORTH REES
L279	LOUDEN MACHINERY CO.	M038	MACLEAN-FOGG CO
L280	LOUIS ALLIS CO.	M010	MACOMBER, INC.
L281	LOUISIANA POWER & LIGHT CO.	M012	MACHYTE WIRE ROPE CO.
L278	LOUISVILLE CEMENT CO.	M013	MADDEN CORP.
L283	LOUVERS & DAMPERS, INC.	M027	MADDOX SALES COM.
L321	LOVE CONTROLS CORP.	M023	MADER MACHINE CO.
L253	LOVEJOY CONTROLS CORP	M507	MADISON BLOCK & STONE
L284	LOWE, CHARLES CO.	M026	MADISON LABORATORIES, INC.
L277	LOYOLA INDUSTRIES, INC.	M037	MADISON-KIPP CORP
L282	LUCAS & SONS CO.	M016	MADSEN CO.
L285	LUDLUM MEASUREMENTS, INC.	M019	MADSEN, ORVILLE & SON, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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M017	MAENAKA VALVE WORKS.	M076	MARKEL COMPANY
M024	MAGIC-FLOW VIBRATOR COMPANY	M084	MARKEL ELECTRIC PRODUCTS INC.
M014	MAGNA CORP.	M079	MARKSTONE
M015	MAGNAFLUX CORP.	M092	MARLAND CO.
M020	MAGNATECH	M091	MARLAND ONE-WAY CLUTCH CO., INC.
M022	MAGNEHELIC	M085	MARLEY CO., THE
M025	MAGNETIC ENGG CO.	M089	MARLEY COOLING TOWER CO.
M030	MAGNETIC METALS CO.	M511	MARLEY HEAT TRANSFER CO
M035	MAGNETICS DIV SPANG INDUSTRIES, INC.	M082	MARLIN MFG.
M040	MAGNETROL, INC.	M086	MARLOW INDUSTRIES, INC.
M043	MAGNOLIA WELDING SUPPLY CO.	M096	MARMON KEYSTONE CORP.
M045	MAHON, R.C. CO.	M088	MARNEL ENGINEERING CO.
M058	MAIHAK CO.	M090	MAROTTA SCIENTIFIC CONTROLS, INC.
M050	MAIN, INC., CHAS. T.	M095	MAROTTA VALVE CORP.
M049	MAIN-LINE ENGINEERING & CONSTRUCTION SVC.	M100	MARQUETTE ELEC SWBD CO.
M051	MAINE YANKEE ATOMIC POWER CO.	M105	MARSH & MCLENNAN, INC
M036	MAINTENANCE ENGG CORP	M110	MARSH INSTRUMENT CO.
M069	MAKO COMPRESSORS INC	M109	MARSH SPENCIL MACHINE CO.
M011	MAKO ENGINEERING	M107	MARSH, INC. (ARMCO)
M044	HALABAR HYDRAULICS CO.	M113	MARSHALLTOWN MANUFACTURING INC.
M508	MALDEN GLASS CO INC	M109	MARTIN ENGINEERING CO.
M103	MALLORY CAPACITOR CO	M094	MARTIN-DECKER CO.
M042	MALLORY, P.R. CO INC	M111	MARTIN-MARIETTA CORP.
M047	MALSBARY MANUFACTURING CO.	M114	MARUSHIMA HYDRAULIC GATE WORKS LTD.
M046	MALTBY ELECTRIC SUPPLY CO., INC.	M106	MARVIN ENGINEERING CO., INC.
M057	MANAGEMENT ANALYSIS CO.	M115	MASON & HANGER-SILAS MASON CO., INC.
M048	MANATROL DIVISION-PARKER-HANNIFIN CORP.	M116	MASON INDUSTRIES, INC.
M071	MANCHESTER TANK & EQUIP CO. OF TEXAS	M120	MASONKILAN INTERNATIONAL, INC.
M053	MANCIB CO.	M121	MASONKILAN REGULATOR CO.
M052	MANCO MANUFACTURING CO.	M125	MASONITE CORP.
M054	MANEY AIR CRAFTS CO.	M126	MASSACHUSETTS ENGINEERING CO., INC.
M055	MANISTEE IRON WORKS	M127	MASSACHUSETTS MATERIAL RESEARCH
M056	MANITOWAC ENGINEERING CO.	M130	MAST DEVELOPMENT CO.
M060	MANN CO., DAVID W.	M505	MASTEN CORP (MASTEN BUNTING)
M063	MANNHARDT, W. & SONS, INC.	M134	MASTER BUILDERS
M064	MANNING & LEWIS ENGINEERING CO.	M129	MASTER CONTROL SYSTEMS, INC.
M059	MANNING ENVIRONMENTAL CORP	M135	MASTER ELECTRIC
M065	MANNING-MAXWELL-MOORE	M136	MASTER GAUGE CO.
M070	MANSFIELD & GREEN DIVISION, AMTEC, INC.	M137	MASTER METAL ROD
M072	MANSFIELD, JAMES, & SON INC.	M128	MASTER SPECIALTIES
M074	MANTA VIN-COR STEEL	M102	MATERIAL CONTROL INC
M073	MANTA, J.L., INC.	M140	MATERIALS ANALYSIS CO.
M075	MANTON GAULIN	M141	MATERIALS SERVICE CORP.
M077	MANUFACTURERS AID	M145	MATHESON GAS PRODUCTS
M087	MAPCO	M148	MATHEWS, JAMES H., CO.
M041	MAR-IND SUP INC	M131	MATHIS-KELLEY CONSTRUCTION SUPPLY
M080	MARATHON ELEC MFG	M146	MATOT, D.A. INC.
M078	MARATHON METALLIC BLDG CO.	M138	MATRYX CO.
M093	MARATHON STEEL CO.	M147	MATTHEWS CONVEYOR
M512	MARCO SALES INC	M097	MATTHEWS-MCCPACKEN-RUTLAND CORP.
M083	MARK CONTROLS CORP.	M150	MATTHEY BISHOP, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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M153	MATTISON ENGINEERING CO.	M517	MCKINNEY, JAMES & SONS INC
M504	MATTISON MACHINES INC	M204	MCKINSTRY METAL WORKS INC.
M155	MAUL CO.	M133	MCLEAN ENGINEERING LABORATORIES
M156	MAURD, R.J. & ASSOCIATES	M184	MCMASTER-CARR CO.
M061	MAURO, A.G. CO, THE	M197	MCHILLAN BROS.
M157	MAVERIC	M104	MCHURRY AND SONS ROOFING CO INC
M144	MAXIM SILENCERS	M189	MCHALLY-PITTSBURGH MFG. CORP.
M159	MAXION PRE-BUR CO., INC.	M185	MCPHERSON ASSOC., INC.
M152	MAXITROL CO.	M194	MCPHILBEN
M154	MAXON CONSTRUCTION CO.	M187	MCQUAY-PERFEX INC.
M158	MAXSON CORPORATION	M190	MCSAVANEY SIGM CO.
M160	MAXWELL LABORATORIES, INC.	M123	MCTIGHE INDUSTRIES
M161	MAYNARD ELECTRIC STEEL CASTING CO.	M033	MEA, INC.
M163	MAZZELLA WIRE CO.	M510	MEADES ELECTRIC CO INC
M117	MBIS INC	M191	MEALOWS, INC.
M162	MC CULLY INSTRUMENTS	M193	MEC-TRONICS INDUSTRIES, INC.
M149	MC KENTGIE RIS MFG	M195	MECH-TRONICS NUCLEAR CORP.
M166	MCALLISTER EQUIPMENT CO.	M202	MECHANICAL INC.
M081	MCC CLAYTON MARK	M198	MECHANICAL PRODUCTS
M151	MCC PACIFIC VALVES	M200	MECHANICAL SERVICE CO.
M139	MCC POWERS CORP.	M205	MECHANICAL SPECIALTIES CO.
M176	MCCARTIN-MCAULIFFE MECH CONTRACTORS INC.	M210	MECHANICAL SPECIALTY PRODUCTS, INC.
M168	MCCLELAND ENGINEERING	M215	MECHANICS RESEARCH INC.
M169	MCCLELLAND ENGINEERS, INC.	M201	MECHNIARTS ASSOC.
M165	MCCORMACK'S HIGHWAY TRANS., INC.	M227	MEDART INC.
M132	MCCORMICK-MORGAN, INC.	M218	MEDART, DIV OF JAKES-EVANS MFG CO.
M206	MCCULLOCK INDUSTRIES INC.	M207	MEDDCO METALS
M167	MCCULLOUGH ELECTRIC CO.	M454	MEDEN PRODS CO INC
M464	MCDANIEL, DAVID E. CO INC	M220	MEDI-RAY, INC.
M171	MCDONALD SPECIALTY PRODUCTS, INC.	M217	MEDIA VALVE CO., INC.
M143	MCDONALD, A.Y. CO.	M219	MEDIUM VOLTAGE SWITCHGEAR DEPT
M142	MCDONALD, R.F. CO.	M221	MEDUSA PORTLAND CEMENT CO.
M170	MCDONNELL & MILLER ITT	M226	MEFCO
M172	MCDONOUGH STEEL CO.	M216	NEGATRON ELECTRONICS & CONTROL, LTD.
M173	MCDOWELL-WELLMAN ENGINEERING CO.	M223	NEIERJOHAN-WENGLER
M174	MCFARLAND ENGINEERING & PUMP CO.	M222	NELANEY ENGINEERING
M208	MCGILL MANUFACTURING CO., INC.	M224	NELRATH SUPPLY & GASKET
M175	MCGRAW EDISON CO., POWER SYSTEMS DIV	M225	NELTRON CORP.
M098	MCGRAW-HILL INC	M230	NEHCO MFG
M180	MCGREGOR MICHIGAN	M229	NENEPPE & SMITH, INC.
M188	MCGUIRE ENTERPRISES	M234	NENOLD, ERNEST D., INC.
M177	MCHENRY SAND & GRAVEL	M101	NENSCO INC (X-REF P034)
M178	MCINNIS CONSTRUCTION	M228	NENSOR
M199	MCINTIRE BRASS WORKS	M232	MERCER ENGINEER INC.
M179	MCINTYRE BROTHERS	M231	MERCER RUBBER CO.
M462	MCIVER & SMITH FABRICATORS INC	M236	MERCO MANUFACTURING, INC.
M181	MCJUNKIN CORP.	M235	MERCROID CORP.
M182	MCKRAY	M240	MERCURY CO.
M122	MCKEE DOOR CO.	M245	MERIAM CO.
M183	MCKENZIE MARINE CONSTRUCTION CO.	M246	MERIAM INSTRUMENTS
M186	MCKINNEY DRILLING COMPANY	M247	MERIDEN-COOPER CO.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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N248	NERIT	M039	HFE CORP
N249	NERQUIP ELECTRIC	M119	MICHAEL FABRICATING INC
N250	NERRICK SCALE MANUFACTURING CO.	M295	MICHIGAN FABRICATING & WELD
N250	NERRIMAN INC.	M297	MICHIGAN HANGER
N251	NERSICK, C.S. CO.	M409	MICHIGAN SEAMLS TUBE CO (X-REF Q015)
N252	NERTE IRON	M299	MICHIGAN TOOL CO.
N253	NESCO CORPORATION	M300	MICHIGAN TRACTOR & MACHINE
N256	NESKER INDUSTRIES	M196	MICKIMNEY STEEL & SALES CO.
N255	NESKER, GEORGE L. CO.	M506	MICRO COMPUTER POWER INC
N259	NESSER, FRANK, & SONS, INC.	M302	MICRO SWITCH
N239	NESSINGER BEARINGS, INC.	M291	MICRO-D-PRODUCTS
N260	NESTA MACHINE CO.	M301	MICRO-KLEAN FILTER
N265	METAL ARTS CO.	M261	MICRON INSTRUMENTS CORP.
N270	METAL BELLOWS	M304	MID-CITY ARCHITECTURAL IRON CO.
N244	METAL CLADDING, INC.	M264	MID-ONIO ELECTING & RIGGING CO.
M112	METAL DOORS & FRAME CO INC	M263	MID-STATE ELECTRONIC SUPPLY
M212	METAL DOORS & FRAMES CO INC	M298	MID-STATES CONCRETE PRODUCTS INC.
M269	METAL FABRICATORS INC.	M308	MID-STATES INDUSTRIAL ALUMINUM BASH, INC.
M272	METAL GOODS CO.	M306	MID-STATES STEEL CORP.
M266	METAL INDUSTRIES INC.	M305	MID-VALLEY, INC.
M066	METAL MASTERS INC	M309	MID-WEST CONVEYOR
M275	METAL OFFICE FURNITURE	M314	MID-WEST INSTRUMENT
M273	METAL PRODUCTS CORP.	M344	MIDCO CONTROL SYSTEMS INC.
M276	METALB EQUIPMENT CO.	M303	MIDCO PIPE & TUBE, INC.
M278	METALLON, INC.	M288	MIDDLE WEST SERVICE CO.
M277	METALLOY INC.	M307	MIDDLESEX STAINLESS FITTINGS
M267	METALLURGICAL CONSULTANTS INC.	M347	MIDLAND PIPE & SUPPLY COMPANY
M213	METCALF ASSOC	M339	MIDLAND ROSS CORPORATION
M283	METER & CONTROLS, INC.	M518	MIDLAND STEEL CORP
M287	METER & INSTRUMENTS CO.	M209	MICSTATE PRE-STRESSED CONCRETE
M282	METER DEVICES CO.	M348	MIDTEX MANUFACTURING COMPANY
M284	METER MAKERS	M310	MIDWAY CO.
M509	METER MASTER INC	M242	MIDWAY INDUSTRIAL CONTRACTOR, INC.
M118	METER SALES & CALIB (X-REF E207)	M312	MIDWEST ENGINEERING CO.
M062	METERMASTER INC	M313	MIDWEST METALS, INC.
M280	METEROLOGY RESEARCH, INC.	M315	MIDWEST PIPING
M281	METERON INSTRUMENTS, INC.	M316	MIDWEST POWER CORP.
M286	METILS, INC.	M311	MIDWEST STEEL
M285	METRA INSTRUMENTS	M296	MIDWEST SURVEYORS SERVICE
M290	METRIX, INC.	M214	MIDWEST TANK CO
M289	METRO METAL, INC.	M317	MIEHLE GOSS DEXTER PNEUMATICS CO.
M192	METROL CORP.	M341	MIK-LIN SYSTEMS DIVISION
M274	METROM INSTRUMENTS INC.	M319	MIKING EQUIPMENT COMPANY
M292	METROPOLITAN EDISON CO.	M334	MIKROPUL
M257	METROPOLITAN PUMP CO.	M318	MIKUNI JUKOYGO, LTD.
M293	METROVONICS	M501	MILAN STEEL IND INC
M279	METTLER INSTRUMENT CORP.	M353	MILDON-ROY INDUSTRIES, LTD.
M268	MEUSER & CO.	M338	MILE HIGH EQUIPMENT COMPANY
M294	MEYER INDUSTRIES	M320	MILES LABORATORIES, INC.
M271	MEYERS, L.E. CO.	M327	MILLER DAVIS COMPANY
M258	MEYLAN STOPWATCH CORP.	M359	MILLER ELECTRIC MANUFACTURING COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
M331	MILLER EXCAVATING	M366	MITCHELL, R. S. & COMPANY
M322	MILLER FLUID POWER CO.	M360	ITSUBISHI HEAVY INDUSTRIES (JAPAN)
M361	MILLER STEEL & SUPPLY COMPANY, INC.	M385	ITSUBISHI INTERNATIONAL CORPORATION
M238	MILLER WIRE WORKS, INC.	M243	ITSUI ENGINEERING & SHIPBUILDING, LTD.
M342	MILLER, J. P. ARTESIAN WELLS	M374	ITERNIGHT BOILER WORKS
M099	MILLER, M.C. MFG CO INC	M418	ITUTOYO CORP.
M321	MILLER, RAY INC.	M386	MIXING EQUIPMENT COMPANY
M463	MILLER-STEPHENSON CHEMICAL CO	M237	MIXOR, INC.
M329	MILLIKEN BRICK COMPANY	M368	MKS INSTRUMENTS
M323	MILLIPORE FILTER CORP.	M387	MLN INDUSTRIES
M324	MILLIS JOHN B., CO.	M417	MM SYSTEMS CORP.
M351	MILLIVAC INSTRUMENTS	M404	MOBIL CALIBRATION
M211	MILLS & LUPTON SUP CO	M399	MOBIL CHEMICAL COMPANY
M367	MILLS ALLOY STEEL COMPANY	M391	MOBIL OIL CORP.
M326	MILLS IRON WORKS INC.	M406	MOBILK FASTNERS
M337	MILLS-WINFIELD ENGINEERING SALES, INC.	M419	MOBILE STEEL CORP.
M356	MILLSTONE POINT COMPANY	M383	MOCK, JULIUS & SON INC.
M363	MILLTRONICS, LTD.	M373	MODERN ENGINEERING COMPANY (FISCO)
M346	MILMAC MANUFACTURES REPRESENTATIVES	M407	MODERN METAL MFG. (DIV. MODERN MACHINERY)
M328	MILNE ASSOCIATES	M379	MODERN WELDING
M354	MILNOR CORP.	M378	MODERNFOLD
M482	MILTI-AMP CORP.	M369	MODICON
M336	MILTON ROYAL	M376	MODINE MANUFACTURING COMPANY
M357	MILTON-ROSS COMPANY	M392	MODPAK
M325	MILTON-ROY COMPANY	M371	MODULASH CORP.
M330	MILWAUKEE BOILER & TANK	M403	MODULAR COMPUTERS
M332	MILWAUKEE CYLINDER COMPANY	M364	MODULAR ENGINEERING COMPANY
M124	MILWAUKEE EQUIP CO INC	M381	MOL-LUS CORP.
M352	MILWAUKEE VALVE COMPANY, INC.	M392	MOELER INSTRUMENT COMPANY
M333	MINCO	M394	MOESCHL EDWARDS CORP. COMPANY, INC.
M335	MINE SAFETY APPLIANCES COMPANY	M384	MOFFETT ENGINEERING COMPANY
M488	MINERAL INSULATED CONTROL SYS INC	M393	MOFFIT COMPANY
M241	MINERVA STOPWATCH CO.	M433	MOHAWK MFG CO
M262	MINEITA MACHINERY CO.	M514	MOHAWK MFG CORP
M343	MINNEAPOLIS TANK & MANUFACTURING COMPANY	M398	MOHE, JOHN & SONS
M340	MINNEAPOLIS-HONEYWELL	M388	MOHR, JOHN & SONS
M345	MINNESOTA MINING & MANUFACTURING, JM CO.	M409	MOLDCAST LIGHTING
M349	MINNESOTA POWER & LIGHT COMPANY	M389	MOLINE CONSUMERS
M350	MINNOTTE MANUFACTURING CORPORATION	M396	MOLLER COMPANY
M233	MIRACLE ADHESIVES CORP.	M390	MOLONEY ELECTRIC COMPANY
M355	MIRROR INSULATION COMPANY	M395	MOLYCORP-MOLYBDENUM CORP. OF AMERICA
M358	MISSION MANUFACTURING COMPANY	M397	MONARCH FORGE & MACHINE WORKS INC.
M360	MISSION VALVE AND PUMP COMPANY	M400	MONITOR LABS, INC.
M513	MISSISSIPPI TANK CO INC	M401	MONITOR MANUFACTURING INC.
M362	MISSISSIPPI VALLEY EQUIPMENT INC	M402	MONITOR TECH INC.
M365	MISSISSIPPI VALLEY STR STEEL	M438	MONOGRAM IND INC
M370	MISSOURI BOILER & TANK COMPANY	M405	MONROE, R. AND SONS
M372	MITAKI COMPANY	M410	MONSANTO RESEARCH CORP.
M408	MITCHELL ENGINEERING	M411	MONTAGUE, B. L. COMPANY, INC.
M377	MITCHELL TECHNOLOGY, INC.	M414	MONTEDORO-WHITNEY
M375	MITCHELL, JOHN S. COMPANY	M412	MONTREY MECHANICAL COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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M413	MONTGOMERY BROTHERS INC.	M476	MUELLER BRASS COMPANY
M415	MONTGOMERY ELEVATOR	M473	MUELLER STEAM SPECIALTY
M420	MONTREAL LOCOMOTIVE WORKS-WORTHINGTON	M474	MUELLER, PAUL COMPANY
M286	MOODIN & LITTLE	M475	MUELLER, R. A. COMPANY
M423	MOOG INC.	M472	MUESCO INC.
M425	MOORE & SHAVER, INC.	M502	MULCAHY, BERNARD J. INC
M424	MOORE DRY DOCK COMPANY	M487	MULLER CO
M422	MOORE INDUSTRIES	M477	MULTIMETALS COMPANY
M430	MOORE PRODUCTS COMPANY	M481	MULTIFLEX MANUFACTURING COMPANY
M427	MOORE SUPPLY	M478	MULTISTRESS INC.
M421	MOORE, I. B. COMPANY	M471	MULTULOC CORP.
M437	MOORE, J. ARTHUR CO INC	M479	MUNDIX COMPANY
M428	MOORE, LEE C. CORP. (SEE L122)	M483	MUNICIPAL PIPE & FABRICATING COMPANY
M426	MOORE, SAMUEL & COMPANY	M480	MUNROE, R. AND SONS
M429	MOORE-HOUSE INDUSTRIES	M484	MUNSTER STEEL COMPANY, INC.
M442	MOOREHEAD MACHINERY & BOILER COMPANY	M486	MUNTERS CORP., THE DEL
M432	MORAF COMPANY	M485	MURDOCK LEAD COMPANY, THE
M431	MORAN, F. E. COMPANY	M490	MURDOCK, INC.
M436	MORGAN CO, THE	M493	MURPHY BED & KITCHEN COMPANY
M435	MORGAN ELECTRIC	M500	MURPHY PACIFIC CORP.
M440	MORGAN SMITH, S. COMPANY	M498	MURPHY, FRANK. W. MANUFACTURING INC.
M434	MORIN BUILDING PRODUCTS	M492	MURRAY AND TRETTEL INC.
M439	MORRIS COUPLING & CLAMP COMPANY	M491	MURRAY INDUSTRIAL SUPPLY
M445	MORRIS MACHINE WORKS	M495	MUSKEGON BOILER WORKS
M443	MORRIS PUMPS, INC.	M469	MUSKOGEE IRON WORKS, INC.
M441	MORRIS WHEELER & COMPANY	M497	MUSONICS
M447	MORRISON BROTHERS	M496	MUSTANG POWER PRODUCTS INC.
M444	MORRISON CONSTRUCTION COMPANY, INC.	M499	MUTUAL MANUFACTURING SUPPLY COMPANY
M446	MORRISON SUPPLY COMPANY	M520	MYERS, F. E. & BROTHERS COMPANY
M494	MORRISON-KNUDSON COMPANY, INC.	M519	MYERS, RAMDON INC.
M503	MORSE MFG CO	N006	N. I. I. LABORATORY FURNITURE
M451	MORTON SALT COMPANY	N003	N.H.C. CONTROLS INC.
M448	MOSHER STEEL COMPANY	N002	NABCO STEEL PLATE FABRICATING SPECIALISTS
M515	MOSLER SAFE CO	N001	NACHI AMERICA INC.
M449	MOSSER INDUSTRIES INC.	N004	NAGLE PUMPS INC.
M450	MOSSMAN, DONALD P. INC.	N005	NALCO CHEMICAL CORP.
M416	MOTHERWELL-INFLO, INC.	N007	NAMCO CONTROLS
M452	MOTOR ALLIANCE CORP.	N012	NAPA
M453	MOTOR COLUMBUS CONSULTING ENGINEERS, INC.	N009	NAPKIN & COMPANY
M455	MOTOROLA	N011	NAROWEZE HEATING & VENTILATING COMPANY
M456	MOTT, INC.	N010	NASH ENGINEERING COMPANY, THE
M459	MOUND STEEL CORP	N008	NASHUA CORP.
M458	MOUNTE, INC.	N073	NASON CO, THE
M457	MOYNO PUMP COMPANY	N003	NATCHEE STEEL & PIPE COMPANY
M460	MPR ASSOCIATES, INC.	N015	NATIONAL ACME COMPANY
M461	MRC	N017	NATIONAL AIR BALANCE COMPANY
M465	NSA INTERNATIONAL	N018	NATIONAL ALUMINATE CORPORATION
M470	NSA RESEARCH CORP.	N020	NATIONAL ANNEALING BOX COMPANY
M466	NSI GENERAL CORP.	N021	NATIONAL ASTRO LABORATORIES
M467	NSI NUCLEAR	N025	NATIONAL BERYLLIA CORP.
M468	NSW INSTRUMENT CORP.	N019	NATIONAL BLOWER & SHEET METAL COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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N024	NATIONAL BRD	N081	NEO-DYN INC.
N026	NATIONAL CERTIFIED PIPE WELDING BUREAU	N086	NEOWELD CORP.
N029	NATIONAL CONTROLS INC.	N084	NEPTUNE CHEMICAL PUMP COMPANY
N031	NATIONAL CRANE CORP	N083	NEPTUNE EASTECH INC.
N027	NATIONAL CYLINDER GAS COMPANY	N134	NEPTUNE HARDY SCALES COMPANY
N032	NATIONAL ELEC COIL (MCGRAW-EDISON)	N092	NEPTUNE MEASUREMENT COMPANY
N030	NATIONAL ELECTRIC SIGN	N093	NEPTUNE METER COMPANY
N028	NATIONAL ELEVATOR CAB & DOOR CORP.	N089	NEPTUNE MICROFLOC INC.
N035	NATIONAL ENVIRONMENTAL INSTRUMENTS, INC.	N087	NEPTUNE SERVICE COMPANY
N041	NATIONAL FIRE SPRINKLER	N091	NEUSCO (NUCLEAR ENGINEERING SERVICES CO.)
N046	NATIONAL FIREHOSE CORP.	N088	NEUMAN & SON
N036	NATIONAL FLANGE & FITTING CO	N095	NEUTRON PRODUCTS, INC.
N038	NATIONAL FOAM SYSTEMS, INC.	N103	NEW CASTEL PRODUCTS
N039	NATIONAL FOAM, INC.	N112	NEW DEPARTURE HYATT
N040	NATIONAL FORGE COMPANY	N098	NEW ENGLAND BOLT
N043	NATIONAL GRAPHICS	N099	NEW ENGLAND CONTROLS, INC.
N056	NATIONAL HOLLOW METAL & SUPPLY CO	N101	NEW ENGLAND INSULATION
N042	NATIONAL LEAD COMPANY	N100	NEW ENGLAND METAL SPINNING COMPANY, INC.
N044	NATIONAL MOBIL CONCRETE	N105	NEW ENGLAND NUCLEAR
N045	NATIONAL NUCLEAR CORP.	N407	NEW ENGLAND RESINS & PIGMENTS
N047	NATIONAL PLUMBING	N102	NEW ENGLAND SILICA
N048	NATIONAL READY-MIX CONCRETE ASSOCIATION	N116	NEW FAB, INC.
N063	NATIONAL RIGGING INC.	N069	NEW HAMPSHIRE SUPPLY CO
N049	NATIONAL SEMI CONDUCTOR	N106	NEW HAVEN TESTING LABORATORY
N054	NATIONAL SOCIETY OF PROFESSIONAL ENGINEERS	N109	NEW JERSEY ELECTRIC CORP.
N051	NATIONAL SONICS CORP.	N113	NEW PROCESS STEEL
N050	NATIONAL SPECTROGRAPHIC LABORATORIES	N108	NEW YORK AIR & BRAKE COMPANY
N052	NATIONAL STAINLESS CORP.	N107	NEW YORK BLOWER
N053	NATIONAL STEEL COMPANY	N111	NEW YORK SHIPBUILDING
N055	NATIONAL TANK COMPANY	N110	NEW YORK TESTING LABORATORIES, INC.
N060	NATIONAL VALVE & MANUFACTURING COMPANY	N096	NEWARK
N016	NATIONAL WELDERS SUPPLY CO	N071	NEWARK ELECTRONICS CORP
N022	NATIONAL WIRE & CABLE CORP.	N097	NEWBERG, GUS K. CONSTRUCTION COMPANY
N057	NATIONAL WIRE PRODUCTS CORP	N094	NEWELL, R. M. COMPANY
N065	NATIONAL-STANDARD COMPANY	N143	NEWGARD, HENRY AND COMPANY (SEE H146)
N023	NATKIN & CO (NATKIN SERVICE CO INC)	N104	NEWMAN
N014	NATKIN SERVICE COMPANY, INC.	N204	NEWMAN ASSOC INC
N066	NATURALITE INC.	N114	NEWPORT LABORATORIES
N068	NDT INTERNATIONAL INC	N115	NEWPORT NEWS SHIPBUILDING & DRY DOCK CO.
N07	NEBRASKA PUBLIC POWER DISTRICT	N118	NEWTON ASSOCIATES
N070	NECI-NUCLEAR ENGINEERING & COMPONENTS INC.	N117	NEWTON, O. A. AND SON COMPANY
N072	NECO CORP.	N208	NEXUS RESEARCH LAB INC
N075	NEELY, JAMES V.	N122	NIAGARA MOHAWK POWER CORPORATION
N076	NEENAH FOUNDRY COMPANY	N125	NIAGARA TRANSFORMER
N078	NELSON BROTHERS, INC.	N126	NIANTIC TOOL COMPANY
N079	NELSON DIVISION	N127	NIBCO COMPANY
N082	NELSON ELEC MFG (SUB GEN SIGNAL)	N124	NIBCO-SCOTT
N080	NELSON ELECTRIC	N133	NICHOLSON DIV. OF DATRON SYSTEMS, INC.
N077	NELSON STEEL & WIRE COMPANY	N128	NICHOLSON FILE COMPANY
N085	NELSON STUD WELDING COMPANY	N129	NICKELL, E. L. COMPANY
N090	NEMA, INC.	N123	NICOL SCALE SERVICES

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N132	NICOLET SCIENTIFIC CORP.	N167	NORTHERN INDIANA PUBLIC SERVICE COMPANY
N119	NIELSEN IRON WORKS	N170	NORTHERN MANUFACTURING
N121	NIFE	N175	NORTHERN SCIENTIFIC, INC.
N131	NILAND, TOM COMPANY	N177	NORTHERN STATES POWER COMPANY
N130	NILES STEEL TANK	N146	NORTHERN STATES STEEL BUILDERS
N074	NILSSON ELECTRICAL LABORATORY INC	N178	NORTHERN STEEL
N136	NIPPON GRAR COMPANY, LTD. (JAPAN)	N180	NORTHROP CORPORATE LABORATORIES
N206	NIPPON OIL CO LTD (JAPAN)	N148	NORTHSHOE STEEL, INC.
N135	NIPPON STAINLESS (JAPAN)	N183	NORTHWEST CONTROLS
N139	NISSHO-IWAI AMERICAN CORPORATION	N184	NORTHWEST COPPERWORKS INC.
N207	NISSIN ELECTRIC CO LTD (JAPAN)	N147	NORTHWESTERN INDUSTRIAL PIPING, INC.
N138	NITTO DENKO AMERICA INC.	N185	NORTHWESTERN MANUFACTURING COMPANY
N137	NITTO ELECTRIC INDUSTRIAL CO. OF AMERICA	N187	NORTHWESTERN STEEL & WIRE COMPANY
N120	NKG INSULATOR	N190	NORTON COMPANY
N140	NL INDUSTRIES, INC.	N149	NORTON CORROSION, LTD.
N144	NOLAND CO	N189	NORVEL WILDER SUPPLY COMPANY
N145	NON LINEAR SYSTEMS, INC.	N192	NORWALK FABRICATORS, INC.
N150	NOOTE CORP.	N188	NOTIFIER COMPANY
N142	NOR-CAL METAL FABRICATORS	N186	NOTT COMPANY
N203	NORAL INC	N141	NOTT, WILARD & COMPANY
N155	NORBATROL ELECTRIC CORP.	N406	NOTTINGHAM, J.B. INC
N160	NORBOTROL ELECTRONICS	N197	NOVENCO, INC.
N152	NORDBERG	N193	NPI/ASC
N153	NORDSON CORP.	N194	NPS INDUSTRIES, INC.
N161	NORGREN, C. A. COMPANY	N201	NTN BEARING CORP OF AMERICA
N174	NORGREN	N195	NUCLEAR ASSOCIATES INTERNATIONAL CORP.
N164	NORMAN ASSOCIATES	N200	NUCLEAR ASSOCIATES, INC.
N163	NORMAN ENGINEERING	N205	NUCLEAR ASSURANCE CORP.
N199	NORMAN EQUIP CO	N210	NUCLEAR AUDIT & TESTING COMPANY
N151	NORMAN INDUSTRIES INC.	N215	NUCLEAR BOLTING, INC.
N157	NORMAN-HOFFMAN BRG.	N220	NUCLEAR CHEMICALS & METALS CORP.
N156	NORRIS DISPENSER INC.	N225	NUCLEAR COMPONENTS, INC.
N154	NORRIS INDUSTRIES	N230	NUCLEAR CONSULTING SERVICES INC.
N159	NORSTRUM	N233	NUCLEAR CONTAINERS, INC.
N191	NORTEC	N235	NUCLEAR CONTAINMENT SYSTEMS, INC.
N162	NORTH AMERICAN CARBON, INC.	N240	NUCLEAR CONTROLS AND ELECTRONICS CORP.
N171	NORTH AMERICAN DOOR CORPORATION	N245	NUCLEAR CORPORATION OF AMERICA
N168	NORTH AMERICAN ROCKWELL CORP.	N250	NUCLEAR DATA, INC.
N172	NORTH AMERICAN STEEL CORPORATION	N255	NUCLEAR DEVELOPMENT LAB, INC.
N165	NORTH EQUIPMENT COMPANY	N260	NUCLEAR DIAGNOSTIC LABS, INC.
N419	NORTH SHORE STEEL INC.	N265	NUCLEAR DIODES, INC.
N202	NORTH STAR STEEL CO	N270	NUCLEAR DYNAMICS, INC.
N182	NORTH TEXAS STEEL COMPANY, INC.	N274	NUCLEAR ENERGY SERVICES INC.
N173	NORTHCOTT PRODUCTS COMPANY	N275	NUCLEAR ENGINEERING COMPANY, INC.
N158	NORTHEAST UTILITIES SERVICE COMPANY	N280	NUCLEAR ENTERPRISES, INC.
N166	NORTHERN BOILER COMPANY	N285	NUCLEAR ENVIRONMENTAL ENGINEERING, INC.
N179	NORTHERN CONTRACTORS SUPPLY INC.	N290	NUCLEAR EQUIPMENT CHEMICAL CORP.
N176	NORTHERN ENGINEERING COMPANY	N295	NUCLEAR EQUIPMENT CORP.
N198	NORTHERN GRAVEL COMPANY	N300	NUCLEAR FUEL SERVICES, INC.
N169	NORTHERN HEATING SUPPLY COMPANY	N302	NUCLEAR INSTALLATION SERVICES CORP.
N181	NORTHERN ILLINOIS STEEL & SUPPLY	N305	NUCLEAR MEASUREMENTS CORP.

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N307	NUCLEAR MUTUAL LIMITED	0016	OAKLAND WIRE & IRON WORKS COMPANY
N310	NUCLEAR PACIFIC, INC.	0015	OAT, JOSEPH AND SONS, INC.
N196	NUCLEAR PACKAGING INC. (NU PAC)	0017	OBERLE-JORDRE
N315	NUCLEAR POWER CORP.	0004	OCE IND
N320	NUCLEAR POWER EXPERIENCE	0019	OCEAN SURVEYS INC
N322	NUCLEAR POWER SERVICES INC.	0011	OCTRA INC
N325	NUCLEAR RADIATION DEVELOPMENTS, INC.	0020	OFFSHORE POWER SYSTEMS
N330	NUCLEAR RESEARCH CORP.	0025	OGALLALA ELECTRONICS
N331	NUCLEAR SAFETY ANALYSIS CENTER (NSAC)	0053	OHAUS SCALE CORP
N335	NUCLEAR SAFETY ASSOCIATES	0030	OHIO BRASS COMPANY
N110	NUCLEAR SEMICONDUCTOR, INC.	0032	OHIO ELECTRIC COMPANY
N345	NUCLEAR SERVICE & CONSTRUCTION CO., INC.	0033	OHIO GRATINGS INC.
N350	NUCLEAR SERVICE LABORATORIES	0035	OHIO INJECTOR COMPANY
N360	NUCLEAR SHIELDING SUPPLIES & SVC, INC.	0021	OHIO STEEL TUBE CO (X-REP C698)
N365	NUCLEAR SOURCES & SERVICES, INC.	0022	OHIO WOODWORKING CO INC
N370	NUCLEAR SUPPLY COMPANY	0024	OHMART CORP.
N375	NUCLEAR SURVEILLANCE & AUDITING CORP.	0026	OHMITE
N355	NUCLEAR SVCS CORP (NAME CHANGE-SEE Q012)	0027	OHWELLY, J. D. CONSTRUCTION
N380	NUCLEAR TECHNOLOGY CORP.	0036	OIL INDUSTRIES MFG. & ENGINEERING
N383	NUCLEAR VALVE DIVISION	0039	OIL STATES RUBBER COMPANY
N385	NUCLEAR WASTER SYSTEMS COMPANY	0037	OIL-DYNE INC.
N390	NUCLEAR-CHICAGO CORP.	0034	OILRITE CORP.
N395	NUCLONOMETRICS, INC.	0038	OKADEE COMPANY
N400	NUCLEUS, INC., THE	0031	OKLAHOMA GAS AND ELECTRIC COMPANY
N405	NUCLIDE CORP.	0040	OKONITE COMPANY, THE
N410	NUCOR CORP.	0047	OLD DOMINION FABRICATORS
N414	NUGENT & COMPANY INC.	0048	OLD DOMINION IRON & STEEL CORP.
N415	NUGENT, WILLIAM W. COMPANY	0023	OLIN BRASS
N417	NUMATICS	0054	OLIVE ELECTRONICS INC
N420	NUMEC	0043	OLSON ELECTRICS
N423	NUNN ELECTRIC SUPPLY	0041	OLSON, C. E. COMPANY
N425	NUPRO COMPANY	0049	OLSONITE CORP
N430	NUS CORP.	0028	OLYMPIC CONTROLS INC
N435	NUTEC, INC.	0042	OMAHA PUBLIC POWER DISTRICT
N436	NUTECH	0044	OMARR INDUSTRIES, INC.
N440	NUTEX CORP.	0045	OMEGA ENGINEERING, INC.
N431	NUTHERM INTERNATIONAL	0046	OMNI SPECTRA, INC.
N445	NUTS, INC.	0050	ONAN, D. W. & SONS, INC.
N447	NWL TRANSFORMERS	0001	ONDYNE INC
N450	NYLUBE PRODUCTS COMPANY	0055	OPELIKA WELDING, MACHINE & SUPPLY, INC.
0014	O & M MANUFACTURING COMPANY	0057	OPERATORS SPECIALTY CO
0018	O'BRIEN ENGRS	0076	OPTICAL SYSTEMS RESEARCH INC
0005	O'BRIEN, D. G. INC.	0060	OPTICS FOR INDUSTRY
0006	O'CONNOR ASSOCIATES	0077	OPTIMIZATION MARKETING
0010	O'DONNELL & ASSOCIATES, INC.	0065	OPTRON CORPORATION - BETA DIVISION
0012	O'HAIR, P.E. & CO	0069	ORBIT VALVE COMPANY
0013	O'NEAL STEEL INC	0073	ORGANIC PRODUCTS CO.
0052	O'NEIL, W. E. CONSTRUCTION COMPANY	0066	ORION RESEARCH INC.
0051	O'NEILL TANK COMPANY	0071	ORLEY MEYER INC.
0003	OAK-WAY MFG INC CO	0072	ORR SAFETY EQUIP CO
0002	OAKLAND MACHINE WORKS	0070	ORTEC, INC.

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CODE	VENDOR NAME
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0067	ORTMAN-MILLER MACHINE COMPANY INC.
0068	ORTNER FREIGHT CAR COMPANY
0075	OSBORNE ELECTRIC
0080	OSTER MANUFACTURING COMPANY
0074	OSWEGO SHEET METAL
0085	OTIS ELEVATOR COMPANY
0087	OTTOWA SILICA
0090	OVERHEAD CRANE & SERVICE
0095	OVERHEAD DOOR COMPANY
0096	OVERHEAD DOOR OF INDIANA
0100	OVERHOFF & ASSOCIATES
0101	OVERLAND STEEL INC.
0105	OVERLY MANUFACTURING COMPANY
0056	OWATONNA TOOL CO
0110	OWEND-CORNING
0111	OWENSBORO IRON WORKS
P004	P & W INDUSTRIES
P003	P B I INDUSTRIES
P006	P4H HEVI-LIFT HOISTS
P007	P. R. I. SOUND CONTROL, INC.
P005	P. X. ENGINEERING COMPANY
P287	P.N.I.
P010	P.P.I.
P008	PAC POWER INC.
P009	PACE STEEL
P011	PACE TRANSDUCER COMPANY
P042	PACECO
P038	PACER INDUSTRIES INC
P014	PACIFIC AIR PRODUCTS
P122	PACIFIC CHEMICAL COMPANY
P013	PACIFIC COAST ENGINEER COMPANY
P012	PACIFIC CRANE
P022	PACIFIC ELECTRIC INSTRUMENT LABORATORY
P015	PACIFIC ELECTRIC MANUFACTURING
P016	PACIFIC ENGINEERING
P201	PACIFIC FIBERGLASS CO
P024	PACIFIC FIRE EXTINGUISHER COMPANY
P017	PACIFIC GAS & ELECTRIC COMPANY
P018	PACIFIC GAS EQUIPMENT
P019	PACIFIC HYDRO
P020	PACIFIC NUCLEAR PRODUCTS
P021	PACIFIC PIPE COMPANY
P033	PACIFIC POWER CONTROL, INC.
P026	PACIFIC PUMPING COMPANY
P025	PACIFIC PUMPS
P023	PACIFIC READY-MIX, INC.
P027	PACIFIC ROLLING DOOR COMPANY
P029	PACIFIC SCIENTIFIC COMPANY
P039	PACIFIC SOUTHERN FOUNDRY "MC
P028	PACIFIC STATES STEEL CORP.
P030	PACIFIC STEEL PRODUCTS COMPANY

CODE	VENDOR NAME
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P031	PACIFIC TRANSDUCER CORPORATION
P036	PACIFIC TUBE CO
P032	PACIFIC VALVES, INC.
P035	PACKARD ELECTRIC COMPANY
P040	PACKARD INSTRUMENT COMPANY, INC.
P041	PACO CORPORATION
P045	PAGE ENGINEERING COMPANY
P046	PAGET COMPANY
P048	PAX-TRONICS
P078	PAL CONSULTANTS
P136	PALL INDUSTRIAL HYDRAULIC
P050	PALL TRINITY MICRO CORP.
P052	PALMER INSTRUMENT COMPANY
P053	PALMER INSTRUMENTS, INC.
P054	PAMOTOR
P069	PANROD INC.
P043	PAN-PACIFIC SUPPLY COMPANY INC.
P055	PANALARM COMPANY
P047	PANAMETRICS INC.
P073	PANASONIC CO
P049	PANDUIT CORP.
P056	PANEL DESIGN, INC.
P063	PANEL OVEN ENGINEERING
P057	PANELLIT, INC.
P051	PANELS INC.
P060	PANGBORN CORP.
P059	PANLMATIC CORPORATION
P072	PANTEX VALVE ACTUATORS
P058	PAPER CALHENSON COMPANY
P061	PAP CORP.
P062	PARAGON ELECTRIC COMPANY
P071	PARAGON STEEL CORPORATION
P065	PARAMETER, INC.
P064	PARDO, J. C. & SON INC.
P066	PARKER APPLIANCE COMPANY
P067	PARKER BROTHERS
P070	PARKER HANNIFIN CORP.
P075	PARKER PACKING COMPANY
P082	PARKER SEAL COMPANY
P080	PARKERSBURG RIG & REEL
P068	PARKLINE CORP.
P079	PARKLINE INC
P076	PARSONS PEBBLES-ELEC PRODS INC
P085	PARSONS, RALPH M. COMPANY
P087	PARTLOW CONT.
P088	PARTLOW CORP.
P086	PASCHEN CONSTRUCTION COMPANY
P084	PASSAVANT CORPORATION
P098	PATENT SCAFFOLDING COMPANY
P090	PATHWAY BELLONS, INC.
P091	PATTEN INDUSTRIES, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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P083	PATTERSON FOUNDRY & MACHINE COMPANY	P150	PENN UNION ELECTRIC
P094	PATTERSON PUMP-DIV OF JERSEY EQUIP. CO.	P152	PENN VENTILATOR COMPANY
P092	PATTERSON STEEL COMPANY	P127	PENN-DIXIE STEEL CORP.
P069	PATTERSON-KELLEY	P151	PENNIMAN & BROWNE, INC.
P104	PATTERSON PUMP DIVISION (GEORGIA)	P137	PENNOYER DODGE CO
P093	PATEIG TESTING LABORATORIES COMPANY	P123	PENNSALT CHEMICAL CORP.
P081	PAUL TRINITY MICRO CORP.	P156	PENNSYLVANIA COMPANY TRANSFORMER DIVISION
P095	PAUL-MUNROE HYDAULICS INC.	P153	PENNSYLVANIA CRUSHER CORP.
P459	PAULSON ENGINEERING INC	P154	PENNSYLVANIA POWER & LIGHT COMPANY
P096	PAWTUCKET MANUFACTURING	P157	PENNSYLVANIA RADIOGRAPHIC LABORATORY
P044	PAXTON PRODUCTS INC.	P159	PENNSYLVANIA SEPARATOR CORP.
P102	PDM SOLA FLEX	P155	PENNMALT CORP.
P097	PDM STEEL	P158	PEORIA PUMP & EQUIPMENT, INC.
P133	PEABODY COAL COMPANY	P163	PERELLA, PETER & COMPANY
P101	PEABODY CONTINENTAL-HEINE	P167	PEREZ FABRICATORS, INC.
P100	PEABODY ENGINEERING CORP.	P107	PERFECTO CAST COMPANY
P134	PEABODY NOISE CONTROL INC.	P161	PERFEX ENERGY SYSTEMS DIVISION
P103	PEABODY TESTING LABORATORY	P162	PERFEX ENGINEERING
P099	PEABODY-BARNES COMPANY	P160	PERFEX, INC.
P105	PEARSON MANUFACTURING	P165	PERKIN-ELMER CORP., THE
P106	PECORA CHEMICAL COMPANY	P166	PERKINSON, WILLIAM J. COMPANY
P109	PEDEN INDUSTRIES	P171	PERMALAB EQUIP CORP
P108	PEECO CORP.	P170	PERMALT, INC.
P110	PEELLE COMPANY	P175	PERMUTIT COMPANY, THE
P113	PEERLESS CONVEYOR & MANUFACTURING COMPANY	P176	PERRY EQUIPMENT CORP.
P169	PEERLESS INDUSTRIES INC	P174	PERRY TURNSTYLES
P112	PEERLESS MANUFACTURING COMPANY	P178	PERTEC COMPUTER CORP
P111	PEERLESS METAL FABRICATORS INC.	P177	PESCO (PUMP EQUIPMENT & SERVICE COMPANY)
P114	PEERLESS NUCLEAR CORP.	P180	PET HEAT & POWER COMPANY
P115	PEERLESS PUMP COMPANY	P182	PETER PAUL ELECTRONICS
P120	PEERLESS WATER SOFTNER	P187	PETERSON DIVING SERVICE
P118	PELCO DISTRIBUTORS	P179	PETERSON ELECTRIC PANEL MANUFACTURING CO.
P164	PELLERIN COMPANY	P189	PETERSON ENGINEERS
P232	PEN VENTILATOR COMPANY, INC.	P190	PETERSON TRACTOR CORP.
P124	PENBERTHY INJECTOR COMPANY	P184	PETERSON WELDING & FABRICATING CORP.
P125	PENBERTHY MANUFACTURING COMPANY	P185	PETERSON, ARTHUR V. ASSOCIATES
P117	PENBERTHY, DIV. OF HOUDAILLE INDUSTRIES	P186	PETERSON, FRED CONSTRUCTION COMPANY
P126	PENCO PRODUCTS INC.	P181	PETRO-CHEM EQUIPMENT COMPANY
P119	PENFOLD, NEALE B. ENGINEERING	P074	PETROLITE CORP
P148	PENINSULA STEEL PRODUCTS & EQUIP CO	F218	PETTERS LTD (ENGLAND)
P121	PENN AIR	P183	PETTIBONE COMPANY
P138	PENN AIRBORNE PRODUCTS CO	P442	PETTIBONE CORPORATION
P116	PENN BANGOR INC.	P188	PETTIBONE WIRE MATERIAL
P128	PENN BASO CONTROLS	P196	PFAPP & KENDALL
P129	PENN CONTROLS INC.	P194	PFAULDER (SYBROX CORP.)
P130	PENN FLEX METAL TUBING	P191	PHELPS DODGE CORP.
P131	PENN INDEPENDENT SPRINKLER COMPANY	P449	PHENEY INC
P132	PENN METER COMPANY	P192	PHILADELPHIA ELECTRIC COMPANY
P135	PENN PUMP & COMPRESSOR	P195	PHILADELPHIA GEAR CORP.
P140	PENN STATE TOOL & DIE CORP.	P197	PHILBRICK/NEXUS RESEARCH INC.
P145	PENN TRANSFORMER DIVISION	P200	PHILCO FORD CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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P193	PHILCOFLEX, INC.	P270	PITTSBURGH-DES MOINES STEEL COMPANY
P198	PHILIPP MFG CO	P271	PLAINS MACHINERY COMPANY
P173	PHILIPS TEST & MEASURE INSTRUMENT	P272	PLAINVILLE MANUFACTURING COMPANY
P205	PHILIPS-ELMET CORP.	P269	PLANOLOG INC.
P204	PHILLIP CAREY MANUFACTURING COMPANY, THE	P273	PLANT CITY STEEL COMPANY
P210	PHILLIPS & DAVIES	P227	PLANT INSULATION
P208	PHILLIPS & OBER ELECTRIC SUPPLY	P274	PLANT MAINTENANCE SERVICE CORP.
P212	PHILLIPS - GETSCHOW COMPANY	P249	PLASTECH CORP.
P207	PHILLIPS COMPANY	P275	PLASTER PRODUCTS
P206	PHILLIPS ELECTRONICS INDUSTRIES (FOREIGN)	P279	PLASTIC FLUID SYSTEMS
P209	PHILLIPS, H. A. & CO	P280	PLASTIGAGE
P203	PHILPOT, R. D. INDUSTRIES, INC.	P277	PLASTO-MATIC
P217	PHOENIX CHEMICAL LABORATORY INC	P278	PLASTONETICS
P213	PHOENIX MANUFACTURING COMPANY	P172	PLENUM PUBLISHING CORP
P214	PHOENIX STEEL	P281	PLEUGER SUBMERSIBLE PUMPS
P211	PHOENIX SUPPLY COMPANY	P222	PLEXIFRAMES
P146	PHOTODYNE INC	P263	FLOUGH ELECTRIC SUPPLY COMPANY
P216	PHYS-CHEMICAL RESEARCH CORP.	P283	PLUMBING SUPPLY COMPANY
P215	PHYSICAL SCIENCES CORP.	P199	PLUMMER & LAWLEY CO
P220	PHYSICS INTERNATIONAL COMPANY	P221	PLYMOUTH PUMP CO
P225	PICKARD, LOWE & ASSOCIATES	P285	PLYMOUTH TUBE
P230	PICKER CORP.	P458	PHC/BETA
P231	PICKENROAD SEPARATOR COMPANY	P455	PNEUMAFIL CORP
P226	PIEPER ELECTRIC, INC.	P284	PNEUMAFLOW, INC.
P234	PILGRIM INSTRUMENT & CONTROLS	P286	PNEUMATIC ELECTRIC
P233	PINE, WILLIAM S.	P259	PNEUMERCATOR COMPANY INC.
P235	PIONEER ALUMINUM INC.	P357	POHANG IRON & STEEL CO LTD
P144	PIONEER ELECTRIC & RESEARCH CORP	P276	POLUTION CONTROL-WALTHER, INC.
P237	PIONEER FIREPROOF DOOR CORPORATION	P037	POLYMETRICS (FILTER MFG)
P238	PIONEER INDUSTRIES	P288	POLYPHASE INSTRUMENT COMPANY
P240	PIONEER SERVICE & ENGINEERING COMPANY	P141	POLYSCIENCE CORP
P241	PIONEER STANDARD	P282	POHONA AIR INC.
P244	PIPE DISTRIBUTERS INC.	P224	PONCRAFT DOOR CO
P243	PIPE FABRICATING AND SUPPLY	P328	POOL FOUNDRY & MACHINE COMPANY
P245	PIPE LINE PROTECTION COMPANY	P264	POPE METAL FABRICATOR, INC.
P250	PIPE MACHINERY COMPANY	P293	POPE, WILLIAM A. COMPANY, THE
P242	PIPECO STEEL CORP.	P289	POPE-MORRISON COMPANY
P077	PIPING & EQUIP INC	P258	PORA CONSTRUCTION COMPANY
P229	PIPING SUPPLY CO INC	P291	PORCELAIN ENAMEL FINISHERS
P219	PIPKORN CORP	P251	PORCELAIN PRODUCTS COMPANY
P252	PITTSBURG ACTIVATED CARBON	P290	PORTA POWER
P260	PITTSBURG BRIDGE & IRON	P248	PORTABLE TOOL SALES & SERVICE, INC.
P255	PITTSBURG CRANE & CONVEYOR COMPANY	P292	PORTEC INCORPORATED
P257	PITTSBURG METALS	P294	PORTER COATINGS COMPANY
P261	PITTSBURG PLATE GLASS COMPANY	P299	PORTER INSTRUMENTS
P262	PITTSBURG TESTING LABORATORY	P296	PORTER PEERLESS MOTORS
P267	PITTSBURG VALVE AND FITTING COMPANY	P295	PORTER, H. K. COMPANY, INC.
P253	PITTSBURG-CORNING	P300	PORTERSVILLE EQUIPMENT COMPANY
P228	PITTSBURGH BRASS MFG CO	P298	PORTLAND CEMENT ASSOCIATION
P202	PITTSBURGH BRASS MFG CO	P268	PORTLAND COMPANY, THE
P265	PITTSBURGH TRANSFORMER	P168	PORTLAND ENGINEERING CO INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
P301	PORTLAND GENERAL ELECTRIC COMPANY	P338	PRE-TEMP COMPANY
P266	PORTS, FRED JR. ASSOCIATES	P256	PRECAST CONCRETE SPECIALTY
P303	POSKY IRON WORKS	P345	PRECIPITATION COMPANY
P304	POSI-SEAL	P344	PRECIPITATION POLLUTION CONTROL
P306	POSTELL, J. A.	P347	PRECISION CASTING
P297	POTTER & BRUNFIELD	P349	PRECISION CONTROL PRODUCTS CORP.
P447	POTTER ELECTRIC SIGNAL CO	P348	PRECISION FABRICATORS, INC.
P302	POTTER ELECTRIC SUPPLY & MANUFACTURING INC	P346	PRECISION FLOW PRODUCTS INC.
P379	POTTER-ROEHER INC	P354	PRECISION MACHINE CO
P307	POTTS, HORACE T. CO. (SPREADLINE FITTINGS)	P351	PRECISION METALS INC.
P309	POWELL ELECTRIC COMPANY	P350	PRECISION SCIENTIFIC COMPANY
P246	POWELL ELECTRICAL MANUFACTURING CORP.	P355	PRECISION STANDARDS CORP.
P327	POWELL MAGNETIC INDUSTRIES	P360	PRECISION THERMOMETER & INSTRUMENT COMPANY
P310	POWELL MANUFACTURING AND ELECTRICAL CORP.	P359	PRECISION TIMER COMPANY INC.
P312	POWELL, M. W. COMPANY	P342	PREPAB PIPE AND SUPPLY COMPANY, INC.
P341	POWELL, WILLIAM COMPANY	P353	PREPARED UTILITIES MFG CORP
P305	POWELL, WILLIAM COMPANY, THE	P339	PREMIER-PNEUMATIC, INC. (SEE P337)
P034	POWELL-TRINITY EQUIP CO (X-REF N101)	P337	PREMIER-PNEUMATICS, INC. (SEE P339)
P446	POWER & ENGINEERED PRODUCTS CO	P361	PRENTIS, J. L. & COMPANY
P254	POWER & ENGINEERED PRODUCTS COMPANY, INC.	P364	PRESANT INDUSTRIAL SUPPLY
P313	POWER AUTHORITY OF THE STATE OF NEW YORK	P363	PRESCO PRODUCTS INC.
P326	POWER CONTROL	P343	PRESCOLITE
P319	POWER CONVERSION PRODUCTS, INC.	P365	PRESCOM CORP., THE
P323	POWER DESIGNS INC.	P368	PRESPRAY CORP. (SEE P370)
P324	POWER DRIVES AND BEARINGS	P370	PRESPRAY CORP., THE (SEE P368)
P316	POWER ENGINEERING AND EQUIPMENT COMPANY	P377	PRESSED STEEL TANK COMPANY
P460	POWER ENTERPRISES INC	P380	PRESSIN COMPANY
P315	POWER EQUIPMENT COMPANY	P381	PRESSURE CONTROLS INC.
P308	POWER FIRING COMPANY	P369	PRESSURE PRODUCTS COMPANY, INC.
P329	POWER INSTRUMENTS INC.	P385	PRESSURE PRODUCTS INDUSTRIES
P239	POWER IRON INC.	P387	PRESSURE SWITCH COMPANY
P236	POWER LINE FANS (DIV ALLIED THERMAL CORP)	P384	PRESSURE SYSTEMS, INC
P334	POWER MACHINE COMPANY	P388	PRESSURE VALVE--DRESSER I.V.I. DIVISION
P317	POWER PIPING COMPANY	P366	PRESSURE VESSELS INC
P318	POWER SYSTEMS	P367	PRESTIGE STAMPING INC
P322	POWER TECH	P389	PRICE BROTHERS COMPANY
P311	POWER TRONICS	P371	PRICE PUMP COMPANY
P314	POWER-MATE	P375	PRICE SUPPLY CO INC
P352	POWER-SONIC CORP	P378	PRINCE VALVE, INC.
P320	POWERLITE SWITCHBOARD	P390	PRINCETON APPLIED RESEARCH CORP.
P321	POWERS REGULATOR COMPANY	P392	PRINGLE ELECTRICAL MANUFACTURING COMPANY
P24	POWERS-AECO-POPE	P456	PRIORITY ONE ELECTRONICS
P325	POWELL PRODUCTS COMPANY	P395	PRISON COMPANY, INC.
P330	PPB, INC.	P397	PRITCHARD PRODUCTS CORP.
P331	PPG INDUSTRIES	P373	PRIE CO, INC.
P336	PRAIRIE TANK & CONSTRUCTION COMPANY	P412	PRO QUIP INC.
P332	PRATER INDUSTRIES, INC.	P142	PROCEEDYNE CORP
P333	PRATT ENGINEERING	P147	PROCESS AND INDUSTRIAL FAB CO
P335	PRATT WHITNEY AIRCRAFT	P409	PROCESS AUTOMATION COMPANY
P340	PRATT, HENRY COMPANY	P408	PROCESS CONSTRUCTORS INC.
P362	PRE-CON INC.	P376	PROCESS ENGG & SALES INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
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P399	PROCESS ENGINEERING, INC.	P454	PURULATOR INC
P391	PROCESS EQUIPMENT BUILDERS INC.	P428	PUTNAM COMPANY
P400	PROCESS EQUIPMENT COMPANY, INC.	P431	PUTNAM, P. F. FABRICATION
P402	PROCESS EQUIPMENT CORP.	P437	PYBUS STEEL
P404	PROCESS INSTRUMENT	P427	PYCO
P403	PROCESS SALES	P429	PYCO/TRINITY
P401	PROCESS SOLVENTS	P433	PYE-T.V.T., LTD.
P398	PROCTOR PRODUCTS INC.	P430	PYLE-NATIONAL DIVISION
P407	PRODUCTION MEASUREMENTS CORPORATION	P443	PYR-A-LARM COMPANY
P383	PRODUCTION STEEL COMPANY	P434	PYRENE
P411	PRODUCTORS ELECTRONICS INC.	P382	PYROMETER INSTRUMENT COMPANY, INC.
P449	PRODUCTOS ELECTRONICOS INC	P435	PYROTRONICS
P406	PRODUCTS RESEARCH & CHEMICAL COPORATION	P436	PYXIS, INC.
P405	PROGRAMMED & REMOTE SYSTEMS CORP.	Q014	Q CON, INC.
P410	PROGRESS MANUFACTURING	Q007	Q DOT CORP.
P415	PROGRESSIVE FAB, INC.	Q004	Q.A. CORPORATION
P394	PROGRESSIVE HYDRAULICS INC.	Q013	QUAD CITIES AUTOMATIC SPRINKLER COMPANY
P444	PROJECT SOLPHARE & DEVICE, INC.	Q012	QUADTREX (NAME CHANGE FROM N355)
P139	PROPEL INC	Q003	QUAKER ALLOY CASTINGS COMPANY
P417	PROSSER INDUSTRIES	Q006	QUAKER CITY GEAR WORKS INC.
P416	PROTECTION SPRINKLER COMPANY	Q002	QUALIGAGE COMPANY
P419	PROTECTIVE CLOSURE COMPANY, INC.	Q011	QUALITROL CORP.
P374	PROTECTIVE COATINGS	Q020	QUALITY AIR DESIGN
P386	PROTECTIVE CONTROLS, INC.	Q021	QUALITY CONTROL EQUIP CO
P451	PROTECTIVE DOOR INDUSTRY	Q018	QUALITY FLOOR COVERING CO
P445	PROTECTIVE MATERIALS CO INC	Q019	QUALITY TESTING INC
P420	PROTECTIVE PACKAGING INC.	Q015	QUANEX CORP (X-REF H489)
P396	PROTECTO SEALS COMPANY	Q005	QUARTE PRODUCTS CORP.
P143	PROTECTOWIRE	Q009	QUEEN PRODUCTS COMPANY
P452	PROTO TOOL CO (INGERSOLL-RAND I075)	Q022	QUELCO INC
P358	PROXIMITY CONTROL INC	Q016	QUEMENT ELECTRONICS
P421	PSI PRODUCTS, INC.	Q007	QUIMBY PUMP
P422	PUBLIC SERVICE COMPANY OF COLORADO	Q008	QUINCY COMPRESSOR COMPANY
P423	PUBLIC SERVICE ELECTRIC & GAS COMPANY	Q010	QUINDAR ELECTRONICS INC.
P424	PUBLIC SERVICE OF INDIANA	R006	R & H STEEL BUILDINGS INC.
P413	PUGET SOUND POWER & SUPPLY COMPANY	R402	R - P & C BAR STOCK VALVE COMPANY
P372	PULLMAN CONSTRUCTION INDUSTRIES	R003	R K L CONTROLS, INC. (SEE R001)
P441	PULLMAN INC.	R401	R T E CORP.
P393	PULLMAN INC.-POWER PPODUCTS DIVISION	R005	RIE
P453	PULLMAN PWR PROD CORP	R004	R-K ELECTRIC INC.
P438	PULLMAN SHEET METAL WORKS INC.	R328	R-P & C VALVE
P432	PULLMAN-KELLOGG	R152	R.E.C. CORP.
P439	PULSASEEDER INTERFACE CORPORATION	R298	R.O. VALVE COMPANY
P425	PULSATION CONTROLS CORP.	R069	RACAL-VADIC
P418	PUMP EQUIPMENT & SERVICE COMPANY	R007	RACINE FLUID POWER PRODUCTS
P223	PUMP REPAIR SERVICE CO INC	R009	RADACHI
P450	PURDY, WM. J. CO	R010	RADAK CORP.
P356	PUREX CORP	R012	RADECO, INC.
P414	PURILATOR PRODUCTS INC.	R011	RADEMAKER CORPORATION
P426	PURNEY ENGINEERING COMPANY	R015	RADFORM TOOL COMPANY
P440	PUROFLOW CORP.	R017	RADIAN CORPORATION

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CODE	VENDOR NAME	CODE	VENDOR NAME
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R018	RADIATION COUNTER LAB, INC.	R094	RAYBESTOS MANHATTAN INDUSTRIAL PRODUCTS CO
R020	RADIATION DYNAMICS, INC.	R098	RAYCHEM CORP.
R025	RADIATION ELECTRONICS INC.	R302	RAYCO EQUIPMENT INC.
R030	RADIATION INDUSTRIES INC.	R100	RAYMOND BROTHERS PULVERIZER
R033	RADIATION INSTRUMENT	R102	RAYMOND CONTROLS
R035	RADIATION INTERNATIONAL INC.	R022	RAYMOND ENGINEERING INC
R040	RADIATION MANAGEMENT CORP.	R103	RAYMOND INTERNATIONAL
R045	RADIATION MATERIALS COMPANY INC.	R104	RAYMOR COMPANY
R050	RADIATION RESEARCH ASSOCIATES, INC.	R106	RAYNOR MANUFACTURING COMPANY
R055	RADIATION SERVICE ASSOCIATES	R105	RAYTHEON COMPANY
R060	RADIATION TECHNOLOGY INC.	R016	RBM CO INC
R067	RADIO EQUIP DISTRIBUTORS	R110	RCA COMMUNICATIONS SYSTEMS DIVISION
R065	RADIO RECEPTOR COMPANY	R115	RCA ELECTROMAGNETIC & AVIATION SYSTEMS DIV
R062	RADIOLOGICAL & CHEM TECHNOLOGY INC	R120	RCA ELECTRONIC COMPONENTS
R070	RADIOLOGICAL SYSTEMS	R125	RCA MISSILE AND SURFACE RADAR DIVISION
R063	RADIOMETER-COPENHAGEN	R130	RCA SOLID STATE DIVISION
R075	RADIUM CHEMICAL COMPANY, INC.	R133	RCA VICTOR DISTRIBUTING CORPORATION
R073	RADONI	R014	RCM IND
R061	RAECO INC	R135	RDF CORP.
R076	RAETONE COMMERCIAL REFRIGERATION CORP.	R140	REACTOR CONTROLS INC.
R066	RAGAN CO	R145	REACTOR EXPERIMENTS, INC.
R079	RAGNAR BENSON, INC.	R150	READING CHAIN & BLOCK
R080	RAHISER, ROBERT W. & ASSOCIATES, INC.	R149	READINGTON COUNTERS
R077	RAILWAY SPECIALTIES CORP.	R148	READY ELECTRIC COMPANY INC.
R081	RAINEAR, C. J. INC.	R151	READY-POWER COMPANY
R072	RALCO	R179	REBEL WELDING SUPPLY INC
R083	RAM FORGED STEEL, INC.	R155	RECO
R019	RAM METR INC	R131	RECORA CO
R071	RAMAPO INSTRUMENT COMPANY, INC.	R136	RED HEAD/PHILLIPS DRILL COMPANY
R089	RAMCO FABRICATORS & SUPPLY COMPANY	R143	RED LION CONTROLS
R086	RAMCO INDUSTRIES INC.	R137	RED VALVE COMPANY
R092	RAMCO STEEL INC.	R138	REDA PUMP COMPANY
R082	RAMCON CORP.	R147	REDDING, JAMES A. COMPANY
R084	RAMSET OPERATIONS WINCHESTER GROUP	R141	REDINGTON COUNTMP INC
R085	RAMSEY ENGINEERING	R134	REECE, M. F. ASSOCIATES, INC.
R013	RAMCO INC.	R156	REED ELECTRIC
R107	RANDOLPH MFG CO INC	R139	REES INSTRUMENTS LTD.
R088	RANDOLPH, WM. A. INC. GENERAL CONTRACTORS	R157	REESE, W. J. TESTING LABORATORY
R064	RANK SCHERR - TUMICO	R158	REFRIGERATING SPECIALTIES COMPANY
R101	RANNEY CO, THE	R176	REFRIGERATION RESEARCH CO
R087	RAPISTAN, INC.	R142	REGAL TUBE CO (COPPERWELD TUBING GR)
R068	RATSLCO INC	R146	REGO
R191	RATHGEBER COMPANY	R153	REID AVERY COMPANY
R091	RAWLINSON ELECTRIC COMPANY	R132	REIMANN & MCKINNEY INC
R074	RAWSON & COMPANY	R154	REINKE & SCHOMAN
R090	RAWSON-LUSH INSTRUMENT COMPANY, INC.	R163	RELIABLE FIRE EQUIPMENT COMPANY
R096	RAY AIRCRAFT SUPPLY COMPANY	R161	RELIABLE METAL
R093	RAY ENGINEERING COMPANY	R171	RELIABLE SHEET METAL WORKS INC.
R095	RAY PROOF CORP.	R159	RELIANCE CUSTOM CONTROLS
R097	RAY WELCH INSTRUMENT	R160	RELIANCE ELECTRIC & ENGINEERING
R296	RAY WELCH, INC.	R165	RELIANCE ELECTRIC COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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R167	RELIANCE GAUGE COLUMN COMPANY	R241	REYNOLDS SUPPLY INC.
R172	RELIANCE STEEL & ALUMINUM	R243	RF McDONALD COMPANY
R170	RELIANCE STEEL PRODUCTS	R245	RPL INDUSTRIES INC.
R173	RELIANCE TRUCK COMPANY	R257	RHEEM RUUD MANUFACTURING COMPANY
R162	RELIANCE UNIVERSAL INC.	R246	RHEEM WATER HEATER DIVISION
R181	RELIANT HEATING & CONTROLS	R244	RHEEM MANUFACTURING COMPANY
R175	REM INC.	R247	RHODES CONTROLS INC.
R180	REHBAR COMPANY, INC., THE	R240	RIC-WIL, INC.
R174	REMCO HYDRAULICS (ABEX CORP.)	R249	RICH, INC.
R177	REMINGTON ARMS COMPANY	R251	RICHARD GOSTLE, INC.
R185	RENOTION COMPANY	R250	RICHARDS OF ROCKFORD, INC.
R190	RENPE COMPANY	R252	RICHARDS TANK CORP.
R178	REMSCO	R255	RICHARDS WILCOX DIVISION
R192	RENEW VALVE COMPANY	R254	RICHARDS, L. K.
R193	REOTEMP INSTRUMENT COMPANY	R253	RICHARDS, R. P. INC.
R199	REPCO ENGINEERING INC.	R236	RICHARDS-WILCOX MANUFACTURING COMPANY
R194	REPPPEL STEEL	R260	RICHARDSON COMPANY, THE
R201	REPUBLIC BUILDERS PRODUCTS CORP.	R263	RICHARDSON ELEC INC
R186	REPUBLIC DIESEL TRK & MACH DIV (REP. WLDG)	R265	RICHARDSON SCALE
R196	REPUBLIC ELECTRIC & DEVELOPMENT COMPANY	R270	RICHARDSON-ALLEN CORP.
R187	REPUBLIC FABRICATORS, INC.	R275	RICHMOND FIRE DOOR COMPANY
R195	REPUBLIC FLOW METERS	R276	RICHMOND SCREW-ANCHOR COMPANY, INC.
R197	REPUBLIC MANUFACTURING COMPANY	R271	RICHMOND STEEL DIVISION OF SPAN-GLASS INC.
R200	REPUBLIC STEEL CORP.	R280	RICHMONDS ENGINEERING COMPANY
R198	REPUBLIC SYSTEMS CORPORATION	R274	RIDGID TOOL COMPANY
R211	RESEARCH COTTRELL, INC.	R277	RIRTH-RILEY CONSTRUCTION COMPANY, INC.
R202	RESEARCH DYNAMICS INC	R272	RIFF ENGINEERING COMPANY
R205	RESEARCH INDUSTRIES LTD.	R284	RIGGS NUCLEONICS CORP.
R210	RESEARCH, INC.	R278	RILEY COMPANY, THE
R213	RESERVE MINNING CORP.	R279	RILEY COMPANY, THE - PANALARM DIVISION
R215	RESIN-FAB CORP.	R283	RILEY STOKER COMPANY
R214	RESOURCES CONSERVATION COMPANY	R281	RILEY-BRAIRD, INC.
R216	RETEC DEVELOPMENT LAB - BURTON DIVISION	R292	RINGLAND-JOHNSON COMPANY
R217	REULAND ELECTRIC COMPANY	R297	RIO ENGINEERING COMPANY
R219	REUTER STEEL	R266	RIOPELLE ENGINEERING SALES INC.
R220	REUTER-STOKES ELECTRIC COMPANY	R292	RIPPEL ARCHITECTURAL METALS
R225	REUTER-STOKES ELECTRIC COMPANY (CANADA)	R261	RIST & ASSOCIATES, INC.
R218	REUTHER MOLD & MANUFACTURING INC.	R021	RITCHIE ENGINEERING CO INC
R229	REVERE CORPORATION OF AMERICA	R273	RITE HITE CORP.
R230	REVERE ELECTRONICS DIVISION	R268	RITTEL MUFFLER & ENGINEERING COMPANY
R235	REX CHAINBELT	R267	RITTER ENGINEERING COMPANY INC.
R238	REX SUPPLY COMPANY	R264	RITE (WEST GERMANY)
R231	REX, J.W. CO	R251	RIVA-CALEONI
R232	REXNORD INC (MATERIALS HANDLING DIV)	R286	RIVER COOP.
R234	REXNORD INC-HYDRAULIC SYSTEMS DIVISION	R289	RIVER STEEL
R233	REXNORD INC.	R262	RIVERSIDE ARCHITECTURAL METAL COMPANY
R237	REXNORD, INC. - CONSTRUCTION MACHINERY DIV	R280	RIVERSIDE INDUSTRIES, INC.
R236	REXNORD, INC. - CYLINDER DIVISION	R001	RKL CONTROLS INC. (SEE R003)
R239	REXROTH CORP	R144	RKR ENGG CO
R240	REYNOLDS MANUFACTURING COMPANY	R269	RMC INC.
R242	REYNOLDS METAL	R314	ROANOKES ELEC STEEL CORP

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CODE	VENDOR NAME	CODE	VENDOR NAME
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R299	ROBART PARTITION COMPANY	R329	ROHN METAL FABRICATORS, INC.
R285	ROBBINS & MYERS	R353	ROHN COMMUNICATION FACILITIES COMPANY, INC
R294	ROBBINS LIGHTNING INC.	R355	ROHN JFG
R303	ROBERTS & SCHAEFER COMPANY	R318	ROHN METAL FABRICATING INC
R287	ROBERTS, R. W.	R357	ROLL FORM PRODUCTE INC.
R293	ROBERTS-BOEK INC.	R360	ROLLER SMITH CORP.
R290	ROBERTSHAW CONTROLS COMPANY	R334	ROLM CORP.
R295	ROBERTSON COMPANY	R364	ROK, WALTER B. & SON INC.
R300	ROBERTSON MANUFACTURING COMPANY	R078	ROMAPO INSTRUMENT COMPANY, INC.
R301	ROBERTSON, H. H. AMBRIDGE DIVISION	R317	ROME CABLE CORP
R305	ROBICON, INC.	R428	ROME IRON MILLS INC
R307	ROBINS ENGINEERS & CONSTRUCTORS	R366	ROMET COMPANY
R309	ROBINSON & ASSOCIATES INC.	R363	RONAN ALARM SYSTEMS
R308	ROBINSON CARTAGE COMPANY	R359	RONAN AND KUNZIE INC.
R310	ROBINSON CORP.	R361	RONAN ENGINEERING COMPANY
R311	ROBINSON JANITORIAL SUPPLY COMPANY	R362	ROOTS - CONNERSVILLE BLOWER
R315	ROBINSON ORIFICE	R368	ROPER HYDRAULICS, INC.
R313	ROBINSON, E. J. GLASS COMPANY	R394	ROPER INDUSTRIES INC. (OHIO)
R312	ROBINSON-HALPERN COMPANY	R374	ROPER PUMP COMPANY
R320	ROBOT APPLIANCE	R358	ROPER WHITNEY INC.
R325	ROBOT INDUSTRIES INC.	R365	ROPER, GEORGE D. CORP.
R322	ROBOTARN	R372	ROSAEN
R306	ROBYON BACKING RINGS COMPANY	R367	ROSCO-KENT
R330	ROCHESTER ELECTRIC PRODUCTS	R331	ROSE ELECTRONIC DISTRIBUTING
R332	ROCHESTER GAS & ELECTRIC COMPANY	R371	ROSE OIL INDUSTRY SUPPLY CORP.
R356	ROCHESTER GAUGES INC.	R370	ROSEMOUNT ENGINEERING COMPANY
R335	ROCHESTER INSTRUMENT SYSTEMS, INC.	R373	ROSEMOUNT NASHVILLE INC.
R337	ROCHESTER MANUFACTURING COMPANY	R369	ROSEMOUNT, INC.
R336	ROCHESTER NUT & BOLT COMPANY	R377	ROSS - HEENAN FOUNDRIES
R430	ROCHESTER PORTLAND CEMENT CORP	R391	ROSS EQUIPMENT COMANY, INC
R339	ROCK ISLAND BRIDGE & IRON	R375	ROSS HEATER & MANUFACTURING
R354	ROCK VALLEY WATER CONDITIONING, INC.	R376	ROSS OPERATING VALVE COMPANY
R352	ROCKBESTOS COMPANY	R316	ROSSBACH & SONS INC
R351	ROCKFORD CEMENT PRODUCTS	R393	ROTEC INDUSTRIES
R349	ROCKFORD FABRICATING & SUPPLY	R384	ROTH PUMP COMPANY
R327	ROCKFORD MACHINE TOOL COMPANY	R379	ROTH, ROYE COMPANY
R338	ROCKWELL BRODIE	R381	ROTHENBUHLER ENGINEERING
R342	ROCKWELL ENGINEERING COMPANY	R383	ROTHSCHILD BOILER AND TANK WORKS, INC.
R340	ROCKWELL MANUFACTURING COMPANY	R397	ROTO HAMMER COMPANY, INC.
R341	ROCKWELL STANDARD CORP.	R378	ROTORK INC.
R344	ROCKWELL-INTERNATIONAL	R382	ROTRON INDUSTRIES
R343	ROCKWOOD COMPANY	R380	ROTTERDAM DOCKYARD COMPANY
R319	ROCKY MOUNTAIN CHEMICAL CO	R387	ROTTERDAM DRYDOCK INC.
R321	ROCKY MOUNTAIN NUCLEAR	R386	ROTTERDAM NUCLEAR
R346	RODGERS, LEROY E.	R385	ROYANG & ASSOCIATES
R345	RODNEY HUNT MACHINERY COMPANY	R389	ROWAN CONTROLLER
R348	RODOFOAM II	R390	ROWE INDUSTRIES DIVISION
R347	ROEMER ELECTRIC STEEL FOUNDRY COMPANY	R388	ROWLAND PRODUCTS, INC.
R304	ROGERS ENGINEERING COMPANY INC.	R392	ROWSON & COMPANY
R427	ROGERS MACHINERY CO INC	R395	ROYAL ELECTRIC MANUFACTURING
R350	ROHN AND HAAS COMPANY	R326	ROYAL EQUIPMENT COMPANY

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CODE	VENDOR NAME
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R429	ROYAL FUEL LIQUID ENERGIES INC
R400	ROYAL INDUSTRIES, INC.
R435	ROYCE EQUIP CO
R002	RPC ELECTRONICS
R404	RTD INC.
R008	RTE DELTA CORP.
R398	RUBATEX CORP.
R407	RUBEROID COMPANY
R408	RUBY CONSTRUCTION COMPANY
R403	RUCKER COMPANY, THE
R409	RUCKER CONTROL SYSTEMS
R324	RUDOX ENGINE & EQUIP CO
R406	RUEHLIN MANUFACTURING COMPANY
R425	RUGGLES-KLINGMAN COMPANY
R405	RUNSEY PUMP COMPANY
R410	RUNDEL ELECTRIC
R323	RURAL ELEC CONVENIENC COOP
R423	RUSCO ELECTRONIC SYSTEMS
R333	RUSKA INSTRUMENT CORP.
R411	RUSKIN MANUFACTURING COMPANY
R413	RUSS ELECTRIC
R424	RUSSEL COIL COMPANY
R421	RUSSELL AND STOLL
R399	RUSSELL PIPE & FOUNDRY COMPANY
R412	RUST ENGINEERING
R414	RUSTRAK
R422	RUTHMAN MACHINERY COMPANY
R426	RUTHMAN CONSTRUCTION CO
R420	RYAN INDUSTRIES
R418	RYAN, INC.
R416	RYERSON STEEL
R415	RYERSON, J. T. & SON
R417	RYRON INDUSTRIES
R396	RYSDON PRODUCTS COMPANY
R419	RYSGARD MASTERS COMPANY
S006	S & K INSTRUMENTS DIVISION
S003	S & S ALLOYS
S002	S & S BUILDERS HARDWARE COMPANY, INC.
S005	S&C ELECTRIC
S567	S&C SUP CO
S001	S&J MANUFACTURING COMPANY
S591	S&P RIGGING CORP
S347	S-F MANUFACTURING COMPANY, THE
S479	S-R PRODUCTS, INC.
S348	S-T-M SUPPLY COMPANY
S004	S.B. ELECTRIC COMPANY
S343	S.Q. CONSTRUCTION
S582	SABER ENTERPRISES INC
S008	SABINE STEEL & CONSTRUCTION
S586	SABRE CONTROLS
S007	SACRAMENTO MUNICIPAL UTILITY DISTRICT

CODE	VENDOR NAME
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S548	SAFE AIR INC
S009	SAFETY CROWN
S010	SAFETY SOCKET SCREW CORP.
S012	SAGE ENGINEERING & VALVE COMPANY
S011	SAGE ENGINEERING CORP.
S014	SAINO, F. L. COMPANY
S022	SALEM ENGINEERING CORP.
S023	SALEM LINE
S024	SALES, J. G. COMPANY, INC.
S021	SALISBURY VALVE COMPANY
S535	SALMON MOTOR REPAIR SVC INC
S585	SAMPLE-WEBTROL INC
S194	SAMPSON & ASSOCIATES
S113	SAMPSON COMPANY
S018	SAMUEL & MOORE COMPANY
S019	SAMUELS, APEA & ASSOCIATES
S570	SAN DIEGO FIRE EQUIP CO
S571	SAN JOSE STEEL CO INC
S031	SAN LUIS BRICK, INC.
S017	SAND SPRINGS WORKS
S013	SANDERS & THOMAS, INC.
S015	SANDERSON & PORTER, INC.
S028	SANDVIK INC. - WIRE DIVISION
S020	SANDUSKY FOUNDRY & MACHINE COMPANY
S029	SANDVIK INC.
S025	SANDVIK SPECIAL METALS CORP.
S030	SANDVIK STEEL INC.
S016	SANFORD FIRE APPARATUS CORP.
S035	SANGAMO ELECTRIC COMPANY
S034	SANI FILTRATION PRODUCTS INC.
S032	SANTA FE TANK & HEATER COMPANY, INC.
S033	SANTA FE TEXTILE COMPANY
S568	SANTA MARIA TOOL INC
S036	SANYMETAL PRODUCTS COMPANY
S037	SARACCO TANK MANUFACTURING COMPANY
S038	SARAN LINKED PIPE COMPANY
S039	SARCO
S040	SARGENT & LUNDY
S027	SARGENT ELECTRIC COMPANY
S041	SARGENT INDUSTRIES
S042	SARGENT LIMITED - AIRITE DIVISION
S043	SARGENT WELCH & COMPANY
S044	SARGENT, R. L. COMPANY
S045	SARKES TARIAN, INC.
S078	SAUDER IND INC
S050	SAUERMAN BROTHERS
S566	SAUK STEEL CO INC
S051	SAVANNA CONSTRUCTION COMPANY
S049	SAYLOR BEALL MANUFACTURING COMPANY
S054	SCAM INSTRUMENT CORP.
S053	SCHAEFER CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
S052	SCHAEVITE ENGINEERING	S094	SCULLIN STEEL DIVISION
S057	SCHAPPER EQUIPMENT COMPANY	S108	SCULLY SIGNAL COMPANY
S046	SCHATE-FEDERAL BEARING COMPANY INC.	S110	SEALOL INC.
S056	SCHAUB MAGNETICS INC.	S111	SEALY & JONES
S055	SCHAUB, F. H. ENGINEERING	S096	SEARL INC.
S060	SCHAUER MANUFACTURING	S112	SEARLE RADIOGRAPHICS INC.
S061	SCHNEIDER & MCGHEE INC.	S109	SEARS, ROEBUCK & COMPANY
S540	SHELLING STEEL COMPANY INC	S115	SEATON WILSON INC.
S059	SCHERER HARDWARE & SUPPLY	S116	SEBA LABORATORIES, INC.
S062	SCHERVILLE STEEL CORP.	S117	SECHERON WORKS COMPANY, LTD.
S072	SCHIFF-HARDIN & WAITE	S121	SECO MANUFACTURING INC.
S069	SCHILL STEEL COMPANY	S137	SECOM, INC.
S549	SCHLAGE ELECTRONICS INC	S114	SECURITY COMPANY, INC.
S047	SCHLUMBERGER LTD.	S118	SECURITY INSERT COMPANY
S063	SCHMIDT INSTRUMENT COMPANY	S587	SECURITY LOCK SHOP
S077	SCHMIDT MANUFACTURING CORP.	S119	SEEBOLD, A. J. COMPANY
S058	SCHMITT STEEL, INC.	S122	SEELNY, J. T. ASSOCIATES, INC.
S048	SCHNEIDER - SIMPSON SHEET METAL, INC.	S120	SEILER, P. J. INC.
S071	SCHNEIDER INC.	S125	SEIMANS
S064	SCHNITZER ALLOY PRODUCTS, INC.	S126	SELF ORGANIZING SYSTEMS, INC.
S164	SCHOMANN INC.	S127	SELMER INDUSTRIES
S074	SCHOOL EQUIPMENT COMPANY, INC.	S128	SEMCO INC.
S066	SCHOONMAKER, A. G.	S123	SEHLER INDUSTRIES, INC.
S065	SCHOTT OPTICAL GLASS INC.	S594	SENTECH CORP
S600	SCHRADER BELLONS	S559	SENBCA RING CO
S575	SCHREIBER MFG CO INC	S129	SENSALL
S067	SCHROEDER BROTHERS COMPANY	S131	SENSITIVE RESEARCH
S536	SCHUBERT ENVIRONMENTAL EQUIP INC	S130	SENSOR DYNAMICS, INC.
S068	SCHUBERT HEAT TREATING COMPANY	S132	SENSOTEC INC.
S070	SCHULER ENGINEERING COMPANY	S134	SENTINEL ELECTRONICS CORP.
S075	SCHUTTE AND KORRING COMPANY	S135	SENTRY EQUIPMENT COMPANY
S073	SCHUTTE, N. L.	S140	SERFILCO
S076	SCHWAB SAFE COMPANY, INC.	S610	SERVICE ART CO
S080	SCHWABER-WOOD	S613	SERVICE INDUSTRIAL SUPPLY INC
S085	SCHWARZ/MANN	S601	SERVICE PHYSICAL TESTERS
S090	SCHWARKOPF DEVELOPMENT CORP.	S142	SERVICE SURVEYING & ENGINEERING COMPANY
S093	SCHWITZER	S615	SERVICE TECTONICS INSTRUMENTS
S095	SCI CHEMICAL-FREEZE DIVISION	S141	SERVICE TOOL COMPANY
S100	SCIENCE ACCESSORIES CORP.	S554	SERVICE WELDING & MACHINE CO
S102	SCIENCE APPLICATIONS, INC.	S143	SETHCO
S097	SCIENTIFIC COLUMBUS	S144	SEXON PUMP
S099	SCIENTIFIC INDUSTRIAL SALES COMPANY	S153	SHALER, JOHN T. COMPANY, INC.
S098	SCIENTIFIC PLASTICS INC.	S606	SHALLTRONIX CORP
S103	SCOT COMPANY	S543	SHAMBAN, W.S. & CO
S542	SCOTT AVIATION CORP	S149	SHAN-ROD CORP.
S106	SCOTT INDUSTRIAL EQUIPMENT COMPANY	S146	SHAND & JURS COMPANY
S101	SCOTT MONITORS INC.	S091	SHANNON AND WILSON, INC.
S104	SCOTT, WRAY M	S145	SHANSTON NUCLEAR ASSOCIATES
S105	SCOVILL MANUFACTURING COMPANY	S133	SHAPE MAGNETRONICS, INC.
S107	SCREW CONVEYOR CORP.	S148	SHAPPERT ENGINEERING COMPANY
S539	SCRUGGS, TED CO INC (ALLIGER&SEARS)	S560	SHARON TUBE CO

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CODE	VENDOR NAME	CODE	VENDOR NAME
S088	SHARP CONTROLS COMPANY, INC.	8199	SIIKA CHEMICAL CORP.
S151	SHARPLES CORP.	8198	SILICAIR DRYERS LTD.
S147	SHARPLESS STOKES DIVISION, PENNWALT	R538	SILICON GENERAL INC
S150	SHARPSVILLE STEEL FABRICATORS	8201	SILPROOF-SILICONE
S152	SHAW, BENJAMIN F. COMPANY	8454	SINITOMO METAL INDUSTRIES
S155	SHAW-BOX CRANE & HOIST	8204	SIMMONDS PRECISION
S156	SHAWMUT COMPANY	8207	SIMMONS, J. L. COMPANY, INC.
S136	SHEBOYGAN BUILDERS SUPPLY(SHEBOYGAN GLASS)	8158	SIMPLEX INC.
S157	SHEPPER	8226	SIMPLEX SYSTEM CONTROLS INC.
S154	SHELCO STEEL WORKS INC.	8200	SIMPLEX VALVE & METER
S084	SHELDON MACHINE CO INC	8202	SIMPLEX WIRE AND CABLE COMPANY
S159	SHELDONS ENGINEERING LIMITED	8203	SIMPSON COMPANY
S160	SHENANGO COMPANY, THE	8163	SIMPSON ELECTRIC COMPANY
S165	SHEPARD-NILES CRANEHOIST	8193	SIMPSON, RALPH H. COMPANY
S170	SHEPHERD, J. L. AND ASSOCIATES	8089	SINCLAIR RADIO LABORATORIES, INC.
S169	SHEPLEY'S EQUIPMENT COMPANY, INC.	8205	SINGER COMPANY, THE
S167	SHERARD, JAMES L. COMPANY	8206	SINGER LAYRE NORTHERN
S574	SHERMAN ENGG CO	8208	SINGER, LAYNE & BOWLER, INC.
S588	SHERWIN INC	8196	SINIAYER, A. & COMPANY ENGINEERS, INC.
S562	SHERWIN-WILLIAMS CO	8210	SINTERCAST
S172	SHICK TUBE - VEYOR CORP.	8189	SIRAPLEX CHEMICAL CORP.
S175	SHIELDS RUBBER COMPANY	8583	SISE CONTROL CO
S174	SHILSTONE ENGINEERING TESTING LABORATORIES	8223	SK INSTRUMENT COMPANY
S176	SHINHEIWA IND. COMPANY, LTD.	8209	SKF BEARINGS
S177	SHINN ENGINEERING	8192	SKF INDUSTRIES, INC.
S178	SHINNER PRECISION, INC.	8211	SKIDMORE-WILHELM COMPANY, INC.
S179	SHIPMAN'S FIRE EXTINGUISHER COMPANY	8161	SKINNER PRECISION INDUSTRIES (SEE 8124)
S171	SHIVE-HATTERY & ASSOCIATES	8212	SKINNER UNIFLOW VALVES
S180	SHM NUCLEAR CORP.	8124	SKINNER VALVE DIVISION, HONEYWELL, INC.
S579	SHOOK & FLETCHER INSULATION CO	8213	SKOLNIK DRUM CORPORATION
S173	SHORELINE SUPPLY COMPANY	8224	SKRO-BEE INC.
8483	SHORROCK, INC.	8324	SLINE INDUSTRIAL PAINTERS INC.
8572	SHORT SCRAP IRON & METAL INC	8219	SLOAN VALVE COMPANY
8598	SHRED-PAX CORP	8216	SLURRY, L. P. PUMPS
S603	SHUGART ASSOC	8215	SLY, W. W. MANUFACTURING
S187	SHUHART, DON COMPANY	8221	SHACNA
S184	SHUNT	8214	SHEDLY PAINTING SERVICE
S183	SICO, INC.	8326	SHER'S PLUMBING
S189	SIEMENS-ALLIS	8218	SHITH & CLARK
S181	SIER BATH GEAR & PUMP	8234	SHITH AND LOVELESS
S319	SIERRA SCIENTIFIC CORP.	8166	SHITH ELECTRIC COMPANY
S545	SIERRA CONTROLS SYSTEMS INC	8231	SHITH INDUSTRIES
S191	SIERRA CRANE & HOIST COMPANY	8227	SHITH INSTRUMENT COMPANY
S162	SIERRA RESEARCH CORP.	8222	SHITH VALVE CORP.
S182	SIERRACIN/HARRISON	8217	SHITH, A. O.
S186	SIEVERT ELECTRIC COMPANY	8225	SHITH, ELWIN G.
S185	SIGMA INSTRUMENTS, INC.	8230	SHITH, J. R. MANUFACTURING COMPANY
S550	SIGMAMOTOR, INC.	8229	SHITH, MYER F. COMPANY
S190	SIGNAL ENGINEERING MANUFACTURING	8232	SHITH, R. G. COMPANY, INC.
S195	SIGNAL HILL ELECTRIC, INC.	8168	SHITH, R. L. COMPANY
S197	SINI PUMPS	8092	SHITH-KOCH, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
S220	SMITH-MOON STEEL COMPANY	S270	SOUTHERN NUCLEAR ENGINEERING, INC.
S138	SMITHCO ENGINEERING, INC.	S278	SOUTHERN OHIO FABRICATORS, INC.
S233	SMITHER, JACK M. & COMPANY	S273	SOUTHERN PUMP & TANK COMPANY
S576	SMOOT CO, THE	S269	SOUTHERN SERVICES INC.
S235	SMOOT ENGINEERING COMPANY	S275	SOUTHERN STATES EQUIPMENT
S236	SNAP-ON TOOLS, INC.	S318	SOUTHERN STATES INC.
S546	SNITEER SUPPLY CO	S277	SOUTHERN STATES STEEL COMPANY
S328	SNITEER, LOUIS T. CO INC (INGERSOL PROD)	S276	SOUTHERN STEEL PRODUCTS COMPANY
S237	SNOOK, J. W. COMPANY	S083	SOUTHERN STRUCTURES INC
S086	SOPCO ERECTORS, INC.	S322	SOUTHERN TRANSFORMERS COMPANY INC.
S238	SOIL TESTING SERVICE, INC.	S308	SOUTHWEST ENGINEERING SERVICES INC.
S239	SOILTEST, INC. - CHICAGO	S280	SOUTHWEST FABRICATING & WELDING CO., INC.
S240	SOLA BASIC INDUSTRIES	S281	SOUTHWEST FASTNERS SUPPLY COMPANY
S245	SOLA ELECTRIC COMPANY	S288	SOUTHWEST GALVENIZING
S241	SOLA FLEX (DIV PITTSBURG-DES MOINES STEEL)	S271	SOUTHWEST METAL FABRICATORS INC.
S246	SOLAR (DIV INTERNATIONAL HARVESTER)	S279	SOUTHWEST ORNAMENTAL IRON COMPANY
S249	SOLAR AIRCRAFT COMPANY	S285	SOUTHWEST RESEARCH INSTITUTE
S251	SOLAR LIGHTING CORP.	S272	SOUTHWEST STAINLESS INC.
S248	SOLAR SUPPLY COMPANY	S286	SOUTHWESTERN ELECTRIC CONTROLS
S250	SOLID STATE CONTROLS, INC.	S283	SOUTHWESTERN ELECTRIC POWER COMPANY
S255	SOLID STATE RADIATIONS, INC.	S290	SOUTHWESTERN ENGINEERING COMPANY
S242	SOLLITT CONSTRUCTION COMPANY	S284	SOUTHWESTERN GAUGE SALES INC.
S254	SOLON MANUFACTURING COMPANY	S292	SOUTHWESTERN LABORATORIES
S573	SOLTEC CORP	S327	SOUTHWESTERN MATERIALS & SUPPLY INC.
S253	SOLVENT SERVICE INC.	S282	SOUTHWESTERN RUBBER & PACKING COMPANY
S256	SONECO SERVICES, INC.		SPACEMEN LIFESAVER
S228	SONIC INSTRUMENTS INC.	S325	SPANCRETE INDUSTRIES INC.
S252	SONICBAR (DIV OF RYSDON PRODUCTS COMPANY)	S289	SPANCRETE OF ILLINOIS INC.
S243	SONNEBORN BUILDING PRODUCTS, INC.	S323	SPANG & COMPANY
S244	SONNEBORN CHEMICAL & REFINING CORP.	S291	SPANG INDUSTRIES INC.
S541	SONOCO PRODUCTS CO	S297	SPARROW, C. E. COMPANY INC.
S581	SONY CORP OF AMERICA	S293	SPARTON SOUTHWEST INC.
S079	SOR INC	S304	SPEAKMAN COMPANY
S257	SORENSEN	S303	SPEAR, JULIAN COMPANY
S258	SORGEL ELECTRIC COMPANY	S296	SPECIAL ARCHITECTURAL METAL COMPANY
S260	SOSTMAN, H. E. COMPANY	S599	SPECIAL CHEMICALS CORP
S261	SOUTH CAROLINA ELECTRIC & GAS COMPANY	S255	SPECIAL EQUIPMENT CORP.
S511	SOUTH CAROLINA STEEL CORP.	S301	SPECIALTY CONNECTORS
S294	SOUTH SIDE IRON WORKS INC.	S555	SPECIALTY VALVE & CONTROLS
S259	SOUTHCO	S597	SPECTRACOM CORP
S247	SOUTHEAST TECHNICAL CODING INC.	S299	SPECTRAL DYNAMICS CORP. OF SAN DIEGO
S263	SOUTHERN ALLOY EQUIPMENT INC.	S307	SPECTRO CHEMICAL RESEARCH LABORATORY, INC.
S264	SOUTHERN BOILER AND TANK WORKS, INC.	S614	SPECTROL ELECTRONICS CORP
S266	SOUTHERN BOLT & FASTNER CORP.	S300	SPECTROMAGNETIC INDUSTRIES
S503	SOUTHERN CALIBRATION & SERVICES	S139	SPECTRUM INFARED, INC.
S262	SOUTHERN CALIFORNIA EDISON COMPANY	S306	SPEED PERFORMANCE MANUFACTURING
S265	SOUTHERN ENGINEERING - PUMP COMPANY	S302	SPEED-NUT
S267	SOUTHERN IMPERIAL COATING CORP.	S305	SPEEDWAY MACHINE & TOOL COMPANY
S274	SOUTHERN INDUSTRIAL STEEL COMPANY	S310	SPELLMAN HIGH VOLTAGE ELECTRONICS CORP.
S268	SOUTHERN INSPECTION SERVICE, INC	S311	SPENA & HOME CONSTRUCTION COMPANY
S309	SOUTHERN INSTRUMENT INC.	S314	SPENCE ENGINEERING COMPANY, INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
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S312	SPENCER TURBINE COMPANY	S336	STANDARD EQUIPMENT & SUPPLY CORP.
S313	SPENCER, WHITE & PRENTIS	S366	STANDARD FITTING COMPANY
S578	SPERRY VICKERS (SPERRY RAND CORP)	S351	STANDARD HEADROOM
S315	SPERTI FARADAY, INC.	S462	STANDARD IRON & WIRE WORKS
S316	SPHERE INDUSTRIES INC.	S350	STANDARD PIPE AND SUPPLY COMPANY, INC.
S317	SPIN CRAFT	S333	STANDARD POWER, INC.
S321	SPIRO, U. S. A. INC.	S360	STANDARD PRESSED STEEL COMPANY
S604	SPITFIRE TOOL & MACHINE CO	S527	STANDARD REFRIGERATION
S320	SPOONER & MERRILL COMPANY	S367	STANDARD SWITCH
S469	SPORLAN VALVE COMPANY	S346	STANDARD TOOL & MACHINE COMPANY
S565	SPRAGUE ELEC CO	S551	STANDARD TRANSFORMER COMPANY
S325	SPRAY ENGINEERING COMPANY	S349	STANECO CORP.
S330	SPRAYING SYSTEMS COMPANY	S370	STANLEY CONSULTANTS, INC.
S335	SPRINGFIELD BOILER	S338	STANLEY VEMCO (DIV OF STANLEY WORKS)
S340	SPRINGFIELD FOUNDRY INC.	S580	STANLEY VIDMAR INC
S342	SPRINKMAN SONS CORP.	S372	STANRAY CORP., INDUSTRIAL SERVICE DIV.
S514	SPROUT-WALDRON DIV. (KOPFER COMPANY INC.)	S353	STANSPEC CORP.
S344	SPUR & SIDING CONSTRUCTORS COMPANY, INC.	S373	STAPLES & PFEIFFER
S345	SQUARR D COMPANY	S377	STAPLEX COMPANY
S552	SQUIRE-COGSWELL CO	S376	STAR HYDRAULICS
S352	ST. CHARLES MANUFACTURING COMPANY	S337	STAR MANUFACTURING COMPANY
S350	ST. JOHN X-RAY LABORATORY	S306	STARME COMPANY
S026	ST. LOUIS FLEXICORE, INC.	S374	STARRETT, L. S.
S087	ST. LOUIS VALVE AND FITTING COMPANY	S467	STATE ELECTRIC SUPPLY
S409	STA-RITE INDUSTRIES INC.	S594	STATE INDUSTRIES INC
S557	STAAB BATTERY MFG CO	S307	STATE STOVE & MANUFACTURING COMPANY
S331	STACEY MANUFACTURING COMPANY, INC.	S375	STATES COMPANY, THE
S355	STACKPOLE CARBON COMPANY	S380	STATHAM INSTRUMENTS, INC.
S596	STACO ENERGY PRODUCTS CO	S512	STATIC POWER (DELTA ELECTRONIC CNTRL CORP)
S611	STAPCO INC	S379	STATIC PRODUCTS
S360	STAHL RIDER, INC.	S382	STATIC-O-RING
S359	STAIN-STEEL INC.	S384	STAUBER, E. COMPANY
S362	STAINLESS ALLOY METALS	S381	STAUFF CORP.
S357	STAINLESS DISTRIBUTERS & SUPPLY	S426	STAUFFER CHEMICALS
S356	STAINLESS DISTRIBUTERS INC.	S383	STD TOOL AND DIE
S365	STAINLESS EQUIPMENT COMPANY	S418	STEAM SPECIALTIES COMPANY
S363	STAINLESS PIPE & FITTINGS, INC.	S385	STEARNS MAGNETIC MANUFACTURING COMPANY
S364	STAINLESS PRODUCTS	S350	STEARNS-ROGER COPR.
S341	STAINLESS SPECIALTIES INC.	S392	STEARNS-ROGER FABRICATORS INC.
S504	STALLINGS & COMPANY, INC.	S393	STEEL ALLOY FABRICATORS
S371	STALLINGS & LANLEY	S389	STEEL DISTRIBUTION INC.
S082	STAHLER, W.R. CORP	S476	STEEL DISTRIBUTORS, INC.
S553	STANADYNE/MOERN DIV	S395	STEEL FABRICATING COMPANY
S369	STANCO BOLT COMPANY	S394	STEEL FABRICATION DIVISON
S361	STANCOR	S397	STEEL FORGINGS INC.
S334	STANDARD BOILER & TANK COMPANY	S396	STEEL FORM, INC.
S481	STANDARD CAR TRUCK COMPANY	S399	STEEL SERVICE COMPANY, INC.
S378	STANDARD DRY WALL PRODUCTS, INC.	S398	STEEL STRUCTURES PAINTING COUNCIL
S354	STANDARD ELECTRICAL TOOL COMPANY	S391	STEELCRAFT COMPANY
S339	STANDARD ELECTRIC TIME COMPANY	S388	STEELE, J. C. & SONS, INC.
S544	STANDARD ENVIRONMENTAL SYSTEMS INC	S332	STEELITE INC.

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S400	STEPCO STEEL COMPANY	S564	STROBIC AIR CORP
S401	STELLAR MANUFACTURING COMPANY	S444	STRONBERG-CARLSON COMPANY
S595	STELLAR SYSTEMS INC	S442	STRONG MANUFACTURING COMPANY
S402	STELLITE DIVISICH	S435	STRONG-CARLISLE-HAMMOND
S403	STEPHENS-ADAMSON MANUFACTURING COMPANY	S434	STROUD SALES COMPANY
S404	STERLING ELECTRIC MOTORS, INC.	S441	STRUCTURAL ALLIED COMPANY
S461	STERLING ELECTRONICS	S609	STRUCTURAL ASSESSORIES INC
S533	STERLING INC	S589	STRUCTURAL DYNAMICS RESEARCH CORP
S405	STERLING TOOL	S438	STRUCTURAL METALS INC.
S422	STERN-WILLIAMS COMPANY, INC.	S436	STRUCTURAL SALES, INC.
S607	STETSON-DOLE ARCHTS & ENGRS	S437	STRUCTURAL STEEL COMPANY
S406	STEVENS INSTRUMENT	S439	STRUCTURAL SYSTEM, INC.
S416	STEVENSON GEO.	S440	STRUTHERS DUNN, INC.
S509	STEWART MACHINE COMPANY	S443	STRUTHERS NUCLEAR & PROCESS COMPANY
S407	STEWART & STEVENSON SERVICES, INC.	S445	STRUTHERS WELLS CORP.
S466	STEWART ENGINEERING & EQUIPMENT CO. INC.	S447	STRYCO MANUFACTURING COMPANY
S408	STEWART MECHANICAL ENTERPRISE INC.	S530	STUART, IRBY C. COMPANY
S534	STENART SYSTEMS	S448	STUPP BROTHERS BRIDGE & IRON COMPANY
S561	STEWART-WARNER CORP	S446	STUSSER ELECTRIC
S482	STICHT, HERMAN H. COMPANY, INC.	S451	SUBGRADE CONSTRUCTION CORP.
S516	STIPPICH, INC.	S605	SUBURBAN TOOL INC
S410	STOCK EQUIPMENT COMPANY	S612	SUSKE BRASS & COPPER CO
S413	STOCKHAM VALVE COMPANY	S457	SUGARS CONSTRUCTION COMPANY
S412	STOCKTON STEEL	S449	SULFRIAN CRYOGENICS INC.
S531	STOCKTON, RALPH VALVE PRODUCTS INC	S247	SULLAIR CORP.
S411	STOCKWELL LABORATORY	S602	SULLIVAN BOLT CO INC
S558	STOCKWELL RUBBER CO	S458	SULLIVAN MACHINERY COMPANY
S414	STOKVIS MULTITON CORP.	S456	SULLIVAN MACHINERY CORP.
S415	STOLLER, S. M. CORP.	S593	SULLIVAN SALES CORP
S081	STOLLEY & ORLEBEKE INC	S452	SULZER - KSB
S459	STONABER, INC.	S450	SULZER BROTHERS INC.
S421	STONCS	S453	SUN SHIPBUILDING & DRYDOCK COMPANY
S420	STONE & WEBSTER ENGINEERING CORP.	S455	SUNDH ELECTRIC COMPANY
S532	STONE CONVEYOR (HONROYE IND INC)	S460	SUNDSTRAND CORP.
S419	STONE ENGINEERING ASSOCIATES	S569	SUNNYVALE PIPING CO
S547	STONEMAN EQUIP CO	S464	SUNROCK CORP.
S463	STONHARD INC.	S465	SUNTAC NUCLEAR CORP.
S417	STOODY COMPANY	S608	SUPER K INDUSTRIES INC
S502	STORED ENERGY SYSTEMS	S471	SUPER STRUT INC.
S423	STORRY ELECTRIC	S470	SUPERINTENDENCE COMPANY, INC.
S563	STOVE PLUMBERS SUPPLIES CO INC	S472	SUPERIOR AIR HANDLING COMPANY
S424	STOVER STEEL TANK MANUFACTURING COMPANY	S473	SUPERIOR APPLIANCE COMPANY
S425	STOW MANUFACTURING COMPANY	S474	SUPERIOR CONSTRUCTION
S427	STRAHMAN	S475	SUPERIOR ELECTRICAL COMPANY
S430	STRAINSERT COMPANY	S478	SUPERIOR ENGINEERING CORP.
S431	STRANE	S477	SUPERIOR HYDRAULICS DIVISION
S432	STRATFLOW PRODUCTS, INC.	S537	SUPERIOR INTERLOCK CORP
S429	STREETER AHET (DIV MANGOOD CORP.)	S480	SUPERIOR SWITCHBOARD & DEVICES
S468	STREICH BROTHERS ENGINEERING	S485	SUPERIOR TUBE
S433	STRESS STEEL CORP.	S487	SUPERIOR VALVE COMPANY
S428	STRIFEL ASSOCIATES	S489	SUPERIOR WELDING COMPANY

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S484	SUPERIOR WIRE & METAL PRODUCTS, INC.	T027	TANOSIG ASSOCIATE, INC.
S528	SUPERPRESSURE INC	T019	TAPECOAT
S584	SUPPLY DISTRIBUTION	T020	TARGET ROCK CORP.
S488	SUPREME-AIRE MANUFACTURING COMPANY	T023	TASKER INDUSTRIES
S486	SURF-A-LITE	T024	TAT ENGINEERING COMPANY
S491	SURIN-WESTERN LTD.	T025	TATE TENCO, INC.
S490	SUSQUEHANNA-WESTERN, INC.	T021	TATE, JOHN INC.
S492	SUTORBILT CORP.	T026	TATOR, KENNETH ASSOCIATES
S495	SW FABRICATING & WELDING COMPANY	T028	TAULMAN COMPANY
S497	SWAN ENGINEERING AND MACHINERY COMPANY	T029	TAUSSIG INC.
S496	SWAN MANUFACTURING	T030	TAYLOR ENGINEERING CORP.
S493	SWANN ICE COMPANY INC.	T035	TAYLOR FORGE DIVISION
S494	SWANSON CONTRACTING COMPANY, INC.	T037	TAYLOR INDICATOR
S498	SWANSON ENGINEERING	T038	TAYLOR INDUSTRIAL SUPPLY
S499	SWANSON-GENTLEMAN, INC.	T039	TAYLOR INSTRUMENT COMPANIES
S500	SWARTWOUT COMPANY	T040	TAYLOR INSTRUMENT PROCESS CONTROL DIVISION
S501	SWATEK, E. P. JR. INC.	T043	TAYLOR SYBRON CORP.
S505	SWECO INC.	T042	TAYLOR, R. W. COMPANY
S507	SWEELAND CORP.	T036	TAYLOR-KUECKELS & ASSOCIATES INC.
S506	SWEENEY, B. K. COMPANY	T045	TAYLORED INDUSTRIES
S513	SWEETLAND CORP.	T011	TBI (THOMAS-BARBEN INSTRUMENTS)
S556	SWENDENMAN CONTROLS CORP	T055	TECH ELECTRIC
S508	SWENDENMAN	T050	TECH ELECTRIC PANEL CORP.
S510	SWENSON (DIV OF WHITING CORP.)	T059	TECH TUBE CORP.
S515	SWEPKO TUBE CORP.	T061	TECH WELD CORP (METAL FAB DIV)
S517	SWISS HAMMER	T057	TECH-SIL, INC.
S577	SWISS PRECISION INSTRUMENTS INC	T058	TECH-SONICS
S518	SWITCHCRAFT	T077	TECHNI-FAB., INC.
S522	SYGNETRON PROTECTION SYSTEMS INC.	T060	TECHNIC INC.
S521	SYLVANIA-CLARK CONTROL	T065	TECHNICAL ASSOCIATES
S519	SYNCHRO START PRODUCTS	T067	TECHNICAL DISTRIBUTORS, INC.
S520	SYNTRON COMPANY	T047	TECHNICAL EDUCATION RESEARCH CENTER
S552	SYRACUSE CASTINGS SALES CORP	T062	TECHNICAL ENVIRONMENTAL ENTERPRISES INC
S523	SYRACUSE ELECTRONICS	T056	TECHNICAL HEATERS INC
S524	SYSTEMS CONTROL CORP.	T041	TECHNICAL INDUSTRIES INC
S529	SYSTEMS ENGINEERING & MANUFACTURING CO.	T070	TECHNICAL OPERATIONS, INC.
S525	SYSTEMS ENGINEERING LABORATORIES, INC.	T075	TECHNICAL PRODUCTS, INC.
S526	SYSTRON-DONNER CORP.	T073	TECHNICAL REPRESENTATION, INC.
T008	T T ELECTRONICS INC.	T014	TECHNICAL SYSTEMS CORP
T359	T X I STRUCTURAL PRODUCTS, INC.	T078	TECHNIPOWER INC.
T005	T X T	T074	TECHNO CORP.
T002	TIS BROKER WORKS	T068	TECHNOLOGY FOR ENERGY CORP.
T007	T. & P. CONSTRUCTION COMPANY OF INDIANA	T076	TECHNOLOGY INC.
T006	T.S.T. SUPPLY INC.	T072	TECHREP
T003	TABER PP., COMPANY	T046	TECTRON ENGINEERING
T001	TABER PUMP COMPANY, INC.	T048	TEBCO PRODS INC
T009	TACO INC.	T071	TEKNEKRON COMPANY
T010	TAGGART, ROBERT, INC.	T079	TEKTRO INC.
T015	TAGLIABUE MANUFACTURING	T080	TEKTRONIX, INC.
T016	TAIT, INC.	T113	TEL TRU MANUFACTURING COMPANY
T017	TANCO INC.	T081	TELE ELECTRIC

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T087	TELEDCRITTENDEN	T151	TEXAS A & M UNIVERSITY
T086	TELEDYNE ANALYTICAL INSTRUMENTS	T152	TEXAS BOLT COMPANY
T089	TELEDYNE BIG BEAM	T136	TEXAS DEPARTMENT OF AGRICULTURE
T082	TELEDYNE COLOMBIA - SUMMERILL	T167	TEXAS DEPARTMENT OF LABOR & STANDARDS
T083	TELEDYNE CORP.	T153	TEXAS ELECTRIC STEEL CASTING COMPANY
T084	TELEDYNE ENGINEERING SERVICES	T156	TEXAS FLANGE AND MANUFACTURING
T085	TELEDYNE MATERIALS RESEARCH	T154	TEXAS FORGE
T107	TELEDYNE MCKAY MANUFACTURING COMPANY	T158	TEXAS INDUSTRIES, INC.
T109	TELEDYNE PHILBRUCK NEXUS	T155	TEXAS INSTRUMENTS INC.
T104	TELEDYNE READCO	T143	TEXAS MARINE INDUSTRIAL SUPPLY COMPANY
T103	TELEDYNE REPUBLIC MFG	T157	TEXAS METAL WORKS, INC.
T063	TELEDYNE THERMATIC	T134	TEXAS MILL SUPPLY COMPANY
T090	TELEDYNE-BROWN ENGINEERING	T123	TEXAS NUCLEAR DIVISION
T095	TELEDYNE-FARRIS ENGINEERING	T127	TEXAS PIPE & SUPPLY COMPANY
T100	TELEDYNE-GEOTECH	T160	TEXAS PIPE AND BENDING, INC.
T105	TELEDYNE-ISOTOPES	T128	TEXAS SCREW COMPANY
T111	TELEDYNE-SPRAGUE ENGINEERING COMPANY	T126	TEXAS SCREW PRODUCTS
T110	TELEDYNE-WAN CHANG ALBANY	T138	TEXAS STEEL COMPANY
T115	TELEPLEX, INC.	T131	TEXAS TANK, INC.
T114	TELETYPE	T133	TEXAS TECHNICAL PRODUCTS COMPANY
T108	TELL STEEL, INC.	T149	TEXAS TRANSFORMER
T116	TELMAR	T144	TEXAS UTILITIES GENERATING COMPANY
T117	TEMP FLEX DIV. ASSOCIATED PIPING	T141	TEXAS UTILITIES INC.
T102	TEMP INC	T132	TEXAS VALVE & FITTING COMPANY
T106	TEMP-PRO INC	T013	TPI MATERIALS INT'L
T119	TEMP-LAR, INC.	T161	TGM DETECTORS, INC.
T118	TEMPMASTER CORP.	T163	THAMES PERMACRETE
T120	TEMPO INSTRUMENT, INC.	T164	THAMES VALLEY STEEL CORP.
T096	TEMPRESO INC	T159	THATCHER ENGINEERING CORP.
T125	TEMTEX TEMPERATURE SYSTEMS & COMPONENTS CO	T177	THAYER SCALE, HYER INDUSTRIES INC.
T112	TENCO HYDRO/AEROSCIENCES, INC.	T172	THERMAL INSTRUMENTS COMPANY
T130	TENNECOMP SYSTEMS, INC.	T166	THERMALINK CORP.
T135	TENNELEC, INC.	T162	THERMAN MANUFACTURING COMPANY
T101	TENNESSEE MILL & MINE SUPPLY CO	T184	THERMAX INC
T140	TENNESSEE NUCLEAR SPECIALTIES, INC.	T171	THERMO DYNAMICS
T142	TENNESSEE VALLEY AUTHORITY	T165	THERMO ELECTRIC COMPANY, INC.
T145	TENNEY ENGINEERING, INC.	T170	THERMO ELECTRON CORP.
T069	TENOR CO INC	T174	THERMO EXCHANGE, INC.
T146	TERA CORPORATION	T175	THERMO MAGNETICS, INC.
T137	TERAC CONTROLS INC.	T192	THERMO VOLT
T148	TERICE COMPANY	T168	THERMO-COUPLE
T121	TERMINAL DATA CORP.	T169	THERMO-COUPLE PRODUCTS COMPANY
T139	TERRA TECHNOLOGY CORP.	T173	THERMOLYME COMPANY
T124	TERRA HAUTE INDUSTRIES	T180	THERMOMATICS, INC.
T129	TERRY CORP.	T185	THERMON MANUFACTURING
T147	TERRY STEAM TURBINE COMPANY	T190	THERMONETICS CORP.
T122	TESCH-YESCH & ASSOCIATES	T181	THERMOSET SYSTEMS, INC.
T150	TESHIBA MANUFACTURING	T194	THERMOWELLS, INC.
T178	TESTING ENGINEERS, INC.	T193	THERMXCHANGER
T179	TETRA TECH, INC.	T191	THERN INC
T176	TEX-STEEL CORP.	T195	THETA INSTRUMENT CORP.

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T197	THOMAS A. EDISON INDUSTRIES	T298	TONCO EQUIPMENT COMPANY
T198	THOMAS AND BETTS ENGINEERED	T299	TOMKINS-JOHNSON
T187	THOMAS AND MULLER COMPANY, INC.	T245	TOOLING SPECIALISTS, INC.
T189	THOMAS ASSOCIATES	T248	TOPAZ ELECTRONICS
T196	THOMAS COMPANY	T249	TORIT CORP.
T258	THOMAS FLEXIBLE COUPLING COMPANY	T236	TORK, INC.
T199	THOMAS PUMP COMPANY INC.	T250	TORNGREN COMPANY
T188	THOMAS, INC.	T231	TOROID CORP
T207	THOMPSON AND JOHNSON	T252	TORRINGTON
T200	THOMPSON ELECTRIC COMPANY	T251	TORRINGTON BRG. COMPANY
T201	THOMPSON LIGHTING PROTECTION	T253	TORWICO ELECTRONICS INC.
T223	THOMPSON MFG CO	T246	TOSHIBA INTERNATIONAL CORP.
T202	THOMPSON PIPE & STEEL COMPANY	T254	TOTAL KON-GES. FOERSTNER AND COMPANY
T203	THOMPSON TANK & MANUFACTURING COMPANY	T272	NOTE SYSTEMS DIV (HOOVER UNVRSL MATERIALS)
T183	THOMPSON, E. A. COMPANY, INC.	T261	TOURTELOT, FRED J. COMPANY
T224	THOMPSON-WILLET CORP	T227	TOURTELOT, FRED L. COMPANY
T205	THOMSON, C. W. COMPANY	T247	TOUSLEY-IBER COMPANY
T204	THORNTON INDUSTRIAL SUPPLY COMPANY, INC.	T255	TOWER IRON WORKS, INC.
T182	THORPE INSULATION COMPANY	T256	TOWER-OLSCAM COMPANY
T206	THORPE PRODUCTS	T233	TOWILL, INC.
T208	THORSTENBERG MATERIALS COMPANY, INC.	T271	TOWNSEND & BOTTUM, INC.
T209	THRALL COR COMPANY	T257	TOYO KEIKI KOGYO
T279	THREE-D INSTRUMENTS INC	T260	TRACER LAB
T213	TIDSWATER EQUIPMENT CORP.	T262	TRACOR NORTHERN, INC.
T186	TIF INSTRUMENTS	T268	TRACOR, INC.
T210	TIGERMAN ENGINEERING	T264	TRADE-WIND
T212	TIME NATIONAL LABORATORIES	T265	TRANE COMPANY
T214	TIME TROL	T270	TRANS-WEIGH COMPANY
T215	TIMES WIRE AND CABLE	T274	TRANSAMERICA DELAVAL
T219	TIMET COMPANY	T275	TRANSAMERICAN INSTRUMENT CORP.
T216	TIMET METALS CORP.	T267	TRANSBAY ELECTRONICS, INC.
T217	TINKIN ROLLER BEARING	T280	TRANSCO INC.
T211	TINKER & RASOR COMPANY	T283	TRANSENERGY CORP.
T218	TITAN	T285	TRANSFER SYSTEMS INC.
T221	TITAN ORNAMENTAL IRON WORKS	T259	TRANSISTOR DEVICES INC.
T220	TITANIUM METAL CORPORATION OF AMERICA	T287	TRANSMATION, INC.
T018	TITEFLEX INDUSTRIAL PRODUCTS GROUP	T290	TRANSNUCLEAR INC.
T225	TITUS MANUFACTURING COMPANY	T269	TRANSWALL CORP.
T226	TLT BABCOCK, INC.	T295	TRAHTER MANUFACTURING, INC.
T228	TNEMEC COMPANY, INC.	T300	TRAPELO
T229	TOA VALVE COMPANY, INC.	T305	TRAVESE CITY IRON WORKS
T230	TOBE DEUTSCHMANN COMPANY	T286	TRAYER ENGINEERING CORP.
T232	TOCH BROTHERS, INC.	T297	TRC-RESEARCH CORP.
T235	TODD SHIPYARDS CORP.	T293	TREES, INC.
T239	TOKHEIM COMPANY	T307	TREMCO MANUFACTURING COMPANY, THE
T240	TOKYO SHIBAURA ELECTRIC CO. LTD. (TOSHIBA)	T310	TRENT TUBE DIVISION
T242	TOLEDO EDISON COMPANY	T299	TRENWA PRODUCTS INC.
T241	TOLEDO SCALE COMPANY	T309	TREXICE, H. D. COMPANY
T234	TOLEDO TANK COMPANY	T284	TRETOLITE DIVISION
T243	TOLL ASSOCIATES	T308	TRI-CITY ELECTRIC COMPANY
T237	TOMAR ELECTRONICS, INCL	T288	TRI-METALS FABRICATION COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
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T313	TRI-STATE MOTOR EXPRESS	T345	TUPCO PRODUCTS
T012	TRI-STATE TUBULAR RIVET CORP	T355	TURNAROUND MAINTENANCE
T331	TRI-VALLEY ENGINEERING	T353	TURNER CONSTRUCTION COMPANY
T317	TRIAD TRANSFORMER	T346	TURNER IRON COMPANY
T296	TRIANGLE CONSTRUCTION COMPANY	T222	TUSCO FAB INC
T314	TRIANGLE ENGINEERING COMPANY	T276	TUTCO
T298	TRIANGLE PUMPS MANUFACTURING COMPANY	T343	TUTHILL PUMP COMPANY
T263	TRIANGLE SALES, INC.	T342	TUTTLE-BAILEY
T301	TRIANGLE-FWC-INC.	T356	TWIN CITY FAN & BLOWER COMPANY
T303	TRICO FUSE MANUFACTURING COMPANY	T347	TWIN CITY TESTING
T316	TRIDENT	T357	TWIN DISC CLUTCH COMPANY
T304	TRILER COMPANY INC.	T349	TWINCO INC.
T312	TRINITY EQUIPMENT CORP.	T348	TWINING LABORATORIES
T311	TRINITY FORGE INC.	T351	TYCO INSTRUMENT DIVISION
T294	TRINITY INDUSTRY	T350	TYLAN CORP.
T291	TRINOX COMPANY	T333	TYLER & HIPFACH GLASS COMPANY
T266	TRIPLETTE CORPORATION	T338	TYLER ELEVATOR PRODUCTS, INC.
T273	TRIPP, DAVID J. ASSOC	T278	TYLER PIPE IND INC
T289	TRITON COMPANY	T354	TYLER-DAWSON SUPPLY COMPANY
T292	TROLA INDUSTRIES	U002	U. N. ALLOY STEEL
T277	TROMBETTA CORP	U003	U. S. BELLOWS
T332	TROMIX CORP.	U005	U. S. ELECTRIC
T318	TROY LAUNDRY MACHINE DIVISION	U004	U. S. FLEXIBLE METALLIC TUBING COMPANY
T324	TRU-FIT SCREW PRODUCTS CORP.	U010	U. S. GAGE COMPANY
T319	TRU-SEAL INC.	U012	U. S. GROUT CORP.
T323	TRUMBULL CORPORATION	U014	U. S. INDUSTRIAL PAINTING, INC.
T315	TRUMBULL ELECTRIC MANUFACTURING	U013	U. S. MOTORS
T321	TRUSCON LABORATORIES	U011	U. S. NATIONAL BUREAU OF STANDARDS
T320	TRUSCON STEEL COMPANY	U009	U. S. NUCLEAR REGULATORY COMMISSION
T334	TRUSSBILT, INC.	U015	U. S. NUCLEAR, INC.
T326	TRUSSBUILT COMPANY	U018	U. S. PUMPS INC.
T282	TRW CINCH CONNECTORS DIVISION	U016	U. S. WELDING SUPPLY
T302	TRW MISSION MANUFACTURING COMPANY	U006	U.S. ECOLOGY INC (FORMERLY N275)
T306	TRW NELSON DIVISION	U001	UCHIDA OIL HYDRAULICS
T329	TRYGON ELECTRONICS INC.	U017	UHHLING INSTRUMENT COMPANY
T004	TSF MANUFACTURING COMPANY	U020	UGINE INDUSTRIES, INC.
T358	TUBAN INDUSTRIAL PRODUCTS COMPANY	U111	UIP STEEL GROUP, INC (DIV INRYCO INC-1080)
T328	TUBE FORGINGS OF AMERICA INC.	U025	ULTRA CARBON CORP.
T325	TUBE METHODS INC.	U038	ULTRA-VIOLET PRODUCTS INC
T327	TUBE SALES	U027	UMM
T330	TUBE TURNS DIVISION	U036	UNAFLEX RUBBER CO
T335	TUBECO, INC.	U127	UNARCO-LEAVILL (UNARCO IND)
T322	TUBES-GEIGER MULLER	U028	UNARCO-ROHN INC.
T336	TUBOFLEX COMPANY	U023	UNDERWRITER LABORATORIES, INC.
T337	TUBULAR PRODUCTS DIVISION	U021	UNDERWRITERS SAFETY DEVICE COMPANY
T281	TUBULAR PRODUCTS, INC.	U019	UNGAR DIVISION (ELDON INDUSTRIES, INC.)
T339	TUDOR CONSTRUCTION COMPANY	U171	UNHOLTE-DICKIE CORP
T340	TUPLINE CORP.	U112	UNIBUS INC
T344	TURBINE TOOL CAR	U024	UNIDOR COMPANY
T352	TUREO LUPTECHNIK SYSTEMS	U032	UNIDYNAMICS/ST. LOUIS, INC.
T341	TURBONETICS INC.	U022	UNIDYNE, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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U029	UNIFIN (DIV OF KEEPRITE PRODUCTS, LTD.)	U110	UNITED STATES TESTING COMPANY, INC.
U030	UNIFORM TUBES INC.	U094	UNITED STEEL
U033	UNILOC	U107	UNITED SYSTEMS CORP.
U034	UNION BOILER	U108	UNITED TOOL COMPANY
U035	UNION CARBIDE CORP.	U109	UNITED TRANSFORMER COMPANY
U037	UNION CHAIN MANUFACTURING	U115	UNITRON INSTRUMENT COMPANY
U040	UNION CONVEYOR CORP.	U139	UNIV. OF CALIF., C. OF ENGR., O. R. S.
U044	UNION ELECTRIC COMPANY	U119	UNIVERSAL ATLAS CEMENT DIVISION OF U.S.S.
U045	UNION ELECTRIC MANUFACTURING	U121	UNIVERSAL ELECTRIC COMPANY
U050	UNION METAL MANUFACTURING	U120	UNIVERSAL FABRICATED PRODUCTS COMPANY
U054	UNION PACIFIC	U125	UNIVERSAL INDUSTRIES
U055	UNION PUMP COMPANY	U126	UNIVERSAL INTERLOCK
U057	UNION SPRING & MANUFACTURING COMPANY	U133	UNIVERSAL METAL HOSE COMPANY
U060	UNION STEAM PUMP COMPANY	U131	UNIVERSAL POWER PIPING INC.
U062	UNION STEEL CORP.	U132	UNIVERSAL RAILWAY SERVICE COMPANY
U065	UNION SW & SIGNAL DIVISION	U134	UNIVERSAL SILENCER CORP.
U066	UNIROYAL, INC.	U135	UNIVERSAL TECHNICAL TESTING LABORATORIES
U114	UNIRULE INDUSTRIES INC	U186	UNIVERSAL WELDING ALLOYS
U063	UNISORB MACHINERY INSULATION SYSTEMS	U187	UNIVERSAL WELDING PRODUCTS
U068	UNISTRUT CORPORATION	U137	UNIVERSAL WIRE AND CABLE COMPANY
U064	UNITY DOOR COMPANY	U136	UNIVERSITY MECHANICAL ENGG CONSTRUCTORS
U069	UNIT ELECTRIC COMPANY	U141	UNIVERSITY OF ILLINOIS
U031	UNIT TRUCK CORP.	U140	UNIVERSITY SOFTWARE SYSTEMS
U067	UNITECH COMPANY	U145	UNIVERSITY SOUND & PUBLIC ADDRESS SYSTEM
U113	UNITED AIR SPECIALISTS INC	U130	UOP (FORMERLY-UNIVERSAL OIL PRODUCTS)
U070	UNITED AIRCRAFT PRODUCTS, INC.	U129	UOP, INC. (AUTOMOTIVE PRODUCTS DIV)
U076	UNITED CONTROLS SYSTEMS (I.F.M. INC.)	U144	UPCO COMPANY, THE
U074	UNITED CONTROLS-DIVISION OF ENVIROTECH	U146	UPTEGRAFF, R. E. COMPANY
U073	UNITED CONVEYOR CORP.	U150	US ELECTRICAL MOTORS
U075	UNITED ELECTRIC CONTROLS COMPANY	U165	US GYPSUM COMPANY
U080	UNITED ENGINEERS & CONSTRUCTORS, INC.	U155	US HOFFMAN MACHINE
U026	UNITED ENGINES INC.	U160	USC INC./ENERGY SYSTEMS GROUP
U082	UNITED ERECTOR, INC.	U161	USCO POWER EQUIPMENT CORP.
U081	UNITED FABRICATORS, INC.	U154	USM CORP.
U083	UNITRO GUNITE & CONSTRUCTION COMPANY, INC.	U170	UTICA TOOL CO INC
U071	UNITED INSTRUMENT CO	U168	UTILITY FUELS INC
U084	UNITED MCGILL	U169	UTILITY POWER CORP
U085	UNITED MINERAL & CHEMICAL CORP.	U166	UTILITY STEEL COMPANY
U090	UNITED NUCLEAR CORP.	U167	UTILITY SUPPLY COMPANY
U087	UNITED NUCLEAR INDUSTRIES	V162	V.N.F.S.--G.E. SAN JOSE
U089	UNITED SHEET METAL	V005	V.O.P.
U091	UNITED STALS COATING ENGINEERS, INC.	V010	VACCO INDUSTRIES
U072	UNITED STATES CORPS OF ENGINEERS	V114	VACTORR PUMP COMPANY
U093	UNITED STATES ENERGY CORP.	V015	VACUMITE INC.
U092	UNITED STATES FILTER CORP.	V014	VACUUM APPARATUS
U095	UNITED STATES PIPE & FOUNDRY COMPANY	V020	VACUUM INDUSTRIES, INC.
U097	UNITED STATES PLASTIC CORP.	V025	VACUUM/ATMOSPHERES CORP.
U100	UNITED STATES RADIUM CORP.	V029	VALCO
U104	UNITED STATES RUBBER COMPANY	V030	VALCOR ENGINEERING CORP.
U105	UNITED STATES STEEL CORP.	V031	VALHALLA SCIENTIFIC INC.
U106	UNITED STATES STEEL SUPPLY	V035	VALIDYNE ENGINEERING CORP.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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V027	VALIN CORP	V098	VERTICLE TRANSPORT COMPANY
V034	VALLEY CONSOLIDATED INDUSTRIES INC.	V100	VEZAM-WEST AND COMPANY
V032	VALLEY FORGE PACKING AND GASKET COMPANY	V101	VIBRA SCREW INC.
V036	VALLEY STEEL PRODUCTS COMPANY	V102	VIBRANETICS, INC
V033	VALMONT INDUSTRIES	V104	VIBRATION CONTROLS CORP.
V026	VALQUIP CORP	V103	VIBRATION ELIMINATOR COMPANY
V037	VALTEK INC.	V099	VIBRATION MOUNTINGS & CONTROLS INC.
V038	VALVE AND PRIMER CORP.	V106	VIBROFLotation FOUNDATION COMPANY
V039	VALVE SYSTEMS & CONTROLS	V108	VIC MANUFACTURING COMPANY
V041	VAN DER VAART BRICK AND BUILDING SUPPLY	V105	VICKERS, INC.
V044	VAN EPEREN PAINTING INC.	V110	VICKERY SIMMS, INC.
V049	VAN HOESEAR VALVE & CONTROL CO	V071	VICON CORP
V046	VAN HORN, OLIVER H. COMPANY	V107	VICON INDUSTRIES INC.
V043	VAN HUFFEL TUBE CORP	V084	VICTAULIC COMPANY OF AMERICA
V047	VAN KEPPLE CONSTRUCTION COMPANY, INC.	V076	VICTOR EQUIP CO
V006	VAN KEUREU CO	V109	VICTOR IMPERIAL BCD INPUT PRINTED
V042	VAN LOON INDUSTRIES, INC.	V113	VICTOR MANUFACTURING COMPANY
V048	VAN-AIR INC.	V117	VICTOR SPECIALTIES
V040	VANCE JIG BORING SERVICE, INC.	V056	VICTOREEN INC
V045	VANCE PRECISION INDUSTRIES	V115	VICTOREEN INSTRUMENT DIVISION
V057	VANDO CONSTRUCTION PRODUCTS	V112	VICTORIA IRON AND METAL
V050	VANTON PUMP & EQUIPMENT CORP.	V118	VIDEOTECHNIQUES
V051	VANTRAM ELECTRIC CORP.	V116	VIERLING STEEL WORKS
V052	VAPOR CORP. - TXT DIVISION	V119	VIKING AUTOMATIC SPRINKLER COMPANY
V053	VAPOR RECOVERY SYSTEM COMPANY	V122	VIKING CORP.,
V054	VAREC, INC.	V121	VIKING FIRE PROTECTION COMPANY
V060	VARIAN ASSOCIATES	V120	VIKING INDUSTRIES
V065	VARIAN DATA MACHINES	V111	VIKING LABORATORIES INC.
V068	VARICEL	V125	VIKING PUMP COMPANY
V067	VARIETY FIRE DOOR	V081	VINCENT ROOFING, INC.
V055	VAST ELECTRONICS INC	V123	VINSON SUPPLY COMPANY, THE
V070	VECTOR CORP.	V126	VINYL PLASTICS, INC.
V073	VECTROLS	V127	VIRGINIA ELECTRIC & POWER COMPANY
V075	VEEDER ROOT COMPANY	V128	VIRGINIA METAL COMPANY
V076	VEGA ELECTRONICS CORP.	V079	VISALIA ELECTRIC MOTOR SHOP
V080	VELAN ENGINEERING COMPANIES	V129	VISCOSITY OIL COMPANY
V085	VELAN VALVE CORP.	V131	VISI-CON
V090	VELONEX	V130	VISUAL INDUSTRIAL PRODUCTS, INC.
V087	VEN-FABRICS INC.	V028	VITCO NUCLEAR PRODUCTS INC
V086	VENDER-PLUMBING	V132	VITRO ENGINEERING DIVISION
V092	VENETIAN ORNAMENTAL IRON WORKS, INC.	V124	VITRO LABORATORIES
V077	VENT PRODUCTS CO INC	V133	VOGEL-PETERSON
V089	VENTILOURE COMPANY, INC.	V139	VOGT GENERAL CHECK VALVE COMPANY
V088	VENTLOK INC.	V135	VOGT, HENRY MACHINE COMPANY
V069	VENTURA VALVE & FITTING COMPANY	V134	VOITH TRANSMISSION INC.
V091	VERAKO PRODUCTS	V140	VOKES, W. L. COMPANY
V097	VERIFLO	V137	VOLUMETRICS
V096	VERMONT RESEARCH CORP.	V083	VON DURFIM INC
V093	VERMONT YANKEE NUCLEAR POWER CORP.	V143	VON RUDEN MANUFACTURING COMPANY
V095	VERSA PRODUCTS	V144	VOSS INTERNATIONAL
V094	VERSABAR CORP.	V141	VOSSCO COMPANY

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CODE	VENDOR NAME	CODE	VENDOR NAME
V142	VOTAM PRECISION TOOL COMPANY	W011	WANLESS SERVICES CORP. (TELEDYNE/DYNAMICS)
V138	VOUGHT CORP.	W037	WARCO CONTROL CENTER
V157	VSI	W040	WARD LEONARD ELECTRIC COMPANY
V158	VSL CORP.	W039	WARD, J. F. COMPANY
V082	VULCAN MANUFACTURING COMPANY	W038	WARMAN EQUIPMENT INTERNATIONAL LTD.
V159	VULCAN MATERIALS COMPANY	W045	WARNER & SWASEY COMPANY
V160	VULCAN STEEL FOUNDRY COMPANY	W174	WARNER ELECTRIC BRAKE & CLUTCH COMPANY
V161	VULCRAFT COMPANY	W050	WARNER ELEVATOR MANUFACTURING COMPANY
V145	VHR SCIENTIFIC	W202	WARNER FIBERGLASS PRODUCTS, INC.
V156	VYRON CORP.	W258	WARNER, GEO. W & CO INC
W002	W-S FITTING WORKS	W052	WARREN BARR SUPPLY COMPANY
W131	W.F. & JOHN BARNES (SEE B103)	W254	WARREN CONTROLS CORP
W133	W.H.A.M. COMPANY	W042	WARREN ELECTRIC COMPANY
W253	W.J.E. & ASSOCIATES	W053	WARREN PUMPS
W003	W.S. SUPPLY INC.	W292	WARREN RADIO CO
W001	WAAGNER-BIRO	W051	WARREN-RUPP PUMP COMPANY
W201	WABCO FLUID POWER DIV (AMERICAN STD. INC.)	W055	WARRICK, CHARLES F. COMPANY
W004	WADE, DIVISION OF TYLER PIPE	W057	WASHINGTON PUBLIC POWER SUPPLY SYSTEM
W005	WAGNER ELECTRIC CORP.	W268	WASHINGTON STEEL CORP
W006	WAGNER, J. F. SONS COMPANY, INC.	W060	WASHINGTON TOOL AND MACHINE COMPANY
W203	WAGNER, R & B INC	W331	WASTECHEM CORP
W274	WAHL INSTRUMENTS INC	W046	WATER ASSOCIATES
W087	WAHLCO CONSTRUCTION COMPANY	W063	WATER TREATMENT CORP.
W010	WAKEFIELD BRASS COMPANY	W018	WATERMAN MACHINE MANUFACTURING COMPANY
W277	WALBRIDGE ALDINGER CO	W064	WATERS EQUIPMENT DIVISION
W263	WALCO INDUSTRIES SUP CO INC	W182	WATERS MANUFACTURING, INC.
W012	WALCOM CORP.	W062	WATKINS BRICK COMPANY
W013	WALDEN INDUSTRIAL	W065	WATLOW ELECTRIC MANUFACTURING COMPANY
W014	WALDINGER CORP., THE	W067	WATSON MANUFACTURING COMPANY, INC.
W316	WALDINGER-YOUNG & BERTKE	W276	WATSON MC DANIEL CO
W016	WALDRON COUPLINGS-MACHINERY DIV OF MIDLAND	W061	WATSON, H. S. COMPANY
W259	WALDRON DUFFY INC	W044	WATSON-FLAGG ELECTRIC COMPANY, INC.
W198	WALKER & WALKER, INC.	W068	WATSON-STILLMAN COMPANY
W015	WALKER-PARKERSBURG DIVISION	W283	WATTS FLUID POWER INC
W020	WALL TUBE & METAL PRODUCTS COMPANY	W058	WATTS PLUMBING SPECIALISTS
W025	WALLACE & TIEMAN, INC.	W047	WATTS REGULATOR COMPANY
W021	WALLACE AND COMPANY	W054	WATURO INDUSTRIES
W023	WALLACE-MURRAY CORP.	W066	HAUKEGAN STEEL
W026	WALLGREEN CONSTRUCTION COMPANY	W059	HAUKESHA ELECTRIC MACHINERY MFG. CO.
W028	WALNOR COMPANY	W070	HAUKESHA FOUNDRY COMPANY, INC.
W034	WALSH CONSTRUCTION COMPANY	W111	HAUKESHA-PEARCE INDUSTRIES
W033	WALTER KIDDE & COMPANY, INC. (SEE K120)	W188	HAUSAU METALS CORP.
W032	WALTER NORRIS ENGINEERING COMPANY	W307	WAVETEK
W036	WALTER, C. E., INC	W043	WAY ENGINEERING COMPANY
W031	WALTER, J. DOORS - DIV OF GELOTEX CORP.	W069	WAYNE ELECTRONICS
W029	WALTERS ENGINEERING INC.	W177	WEAHER, MILES T. AND SONS, INC.
W261	WALTON LABORATORIES	W179	WEAMCO CORP.
W279	WALTRONICS SALES	W048	WEAR-FLEX SLINGS
W030	WALWORTH COMPANY	W139	WEATHER MEASURE CORP.
W024	WAMPFLER INC.	W071	WEATHERGUARD PRODUCTS
W035	WANG LABORATORIES, INC.	W332	WEAVER, F. M. (TRIAS) INC

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CODE	VENDOR NAME	CODE	VENDOR NAME
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W082	WEBB MATERIAL HANDLING	W148	WESTERN CONSULTING ENGINEERS
W142	WEBB MECHANICAL INTERPRISES	W093	WESTERN CONTROLS INC.
W056	WEBB, JERVIS B. COMPANY	W095	WESTERN ELECTRIC
W074	WEBER GAGE COMPANY	W171	WESTERN ELECTRO MECHANICAL COMPANY
W078	WEBSTER ELECTRIC	W097	WESTERN ENGINE COMPANY
W143	WEBSTER MANUFACTURING COMPANY	W144	WESTERN ENGINEERING & SUPPLY COMPANY
W081	WECO	W271	WESTERN FIRE EQUIP
W079	WEDCO CORP.	W098	WESTERN FORGE AND FLANGE
W108	WEED INSTRUMENT COMPANY, INC.	W103	WESTERN GEAR CORP.
W122	WEHLING WELL WORKS	W183	WESTERN GEOPHYSICAL COMPANY OF AMERICA
W168	WEICHAFT STAMPING COMPANY	W099	WESTERN GEOPHYSICAL ENGINEERS, INC.
W009	WEIDENMILLER COMPANY	W101	WESTERN HYDRAULIC
W172	WEIDMULLER TERMINATIONS INC.	W102	WESTERN INC.
W072	WEIL PUMP COMPANY	W100	WESTERN INDUSTRIES, INC.
W106	WEIL-MCLAIN CORP.	W107	WESTERN IPON WORKS INC.
W186	WEINMAN PUMP & SUPPLY COMPANY	W104	WESTERN MARINE ELECTRONICS COMPANY
W073	WEINMAN PUMP MANUFACTURING COMPANY	W017	WESTERN PETRO CHEMICAL SERVICES
W083	WEISS, ALBERT A. & SON, INC.	W112	WESTERN PIPE & SUPPLY COMPANY
W076	WEJ-IT EXPANSION PRODUCTS	W163	WESTERN PIPING & ENGINEERING COMPANY, INC.
W075	WEKSLER INSTRUMENT CORP.	W105	WESTERN PIPING & ENGINEERING CORP. OF L.A.
W041	WEKSLER THERMOMETER CORP.	W110	WESTERN PRECIPITATION
W049	WEKSLER, INC.	W114	WESTERN RAILWAY DEVICES CORP.
W084	WELCO ALLOYS	W158	WESTERN RIGGING PRODUCTS INC.
W077	WELDCRAFT EQUIPMENT COMPANY	W115	WESTERN SINTERING COMPANY, INC.
W266	WELDED TUBE CO OF AMERICA	W147	WESTERN STRUCTURAL COMPANY
W080	WELDING AND STEEL FABRICATION COMPANY, INC	W116	WESTERN SWITCHBOARD COMPANY
W173	WELDING COMPANY INC.	W118	WESTERN TANK & STEEL COMPANY
W294	WELDSTAR CO	W117	WESTERN TOOL
W113	WELDY-LAMONT ASSOCIATES, INC.	W176	WESTERN TUBE & CONDUIT CORP.
W096	WELK BROTHERS	W166	WESTERN VENTILLATING COMPANY
W086	WELL EQUIPMENT MANUFACTURING CORP.	W272	WESTERN WOODCRAFT MFG CO
W027	WELLER-XCELITE ELECTRONICS DIVISION	W119	WESTINGHOUSE AIR BRAKE COMPANY (WABCO)
W273	WELLMAN THERMAL SYSS CORP	W351	WESTINGHOUSE ELEC CORP.-NUCLEAR ENERGY SYS
W109	WELLS MANUFACTURING COMPANY	W121	WESTINGHOUSE ELECTRIC COMPANY (ELEV. DIV)
W262	WELSTAR CO	W120	WESTINGHOUSE ELECTRIC CORP.
W087	WENDNEGEL & COMPANY, INC.	W123	WESTINGHOUSE ELECTRIC SUPPLY COMPANY
W085	WERNER & PFLEIDERER CORP.	W197	WESTON COMPONENTS & CONTROLS
W090	WESCHLER ELECTRIC CORP.	W125	WESTON ELECTRIC INSTRUMENT
W022	WESCO INDUSTRIES CORP.	W126	WESTON GEOPHYSICAL ENGINEERS, INC.
W350	WESCOM, INC.	W127	WESTON HYDRAULICS DIVISION
W091	WESMAR	W124	WESTON INSTRUMENTS DIVISION
W019	WESSELS COMPANY	W154	WESTRAN CORP.
W088	WEST CHEMICAL PRODUCTS, INC.	W130	WESTROVICS, INC.
W008	WEST COAST SWISS WATCH COMPANY	W129	WFI INTERNATIONAL INC.
W281	WEST INSTR GULTON INDS DIV(M.C.S.)	W136	WHALEN CHILSTROM COMPANY
W269	WEST JERSEY MFG CO	W256	WHAYNE SUPPLY CO
W128	WEST STEEL	W134	WHEATLEY COMPANY
W169	WESTATES ELECTRONICS CORP.	W132	WHEATLEY, CHARLES COMPANY
W089	WESTCO PUMP SALES	W135	WHEATON SCIENTIFIC
W092	WESTERN ARCHITECTURE IRON	W137	WHEELABRATOR CORP.
W094	WESTERN CONCRETE STRUCTURES	W138	WHEELABRATOR-FRYE, INC.

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W141	WHEELER REFLECTOR COMPANY, INC.	W217	WILLIAMS AND COMPANY
W140	WHEELER, C. H. DIVISION	W218	WILLIAMS CRANE & RIGGING
W145	WHEELING CORRUGATING	W208	WILLIAMS FORM ENGINEERING CORP.
W267	WHEELING MACHINE PRODUCTS CO	W220	WILLIAMS PRODUCTS, INC.
W146	WHEELOCK	W206	WILLIAMS, CLYDE E. & ASSOCIATES
W150	WHIRL AIR FLOW	W221	WILLIAMSBURG
W149	WHIRLPOOL INC.	W225	WILLIAMSON CORP.,
W167	WHITE & THOMAS, INC.	W227	WILLIAMETTE IRON & STEEL COMPANY
W151	WHITE ENGINE INC.	W223	WILLIS & PAUL CORP., THE
W152	WHITE INDUSTRIAL POWER, INC.	W289	WILLOW PRODS CO INC
W153	WHITE, J. S.	W209	WILMAR ELECTRONICS INC.
W204	WHITE, JAMES C. CO	W252	WILHOT ENGINEERING COMPANY
W293	WHITE, JIM METAL PRODUCTS INC	W228	WILSON ANCHOR SLEEVE, INC.
W155	WHITE, RALPH COMPANY, THE	W226	WILSON ENGINEERING CORP.
W157	WHITE-ROGERS	W298	WILSON LABORATORIES INC
W156	WHITECRE ENGINEERING COMPANY	W205	WILSON, J. G. CORP.
W160	WHITEHEAD & KALES COMPANY	W229	WILTON-FIJENOORD N.V.
W161	WHITEHEAD METAL	W224	WIN-WAY, INC.
W162	WHITEHOUSE, IRVIN H. & SON, INC.	W207	WING COMPANY, THE
W165	WHITBY COMPANY	W230	WING, L. J. MANUFACTURING
W164	WHITBY RESEARCH TOOL COMPANY	W231	WINNIE, FRANK W. & SON INC.
W170	WHITING CORP.	W233	WINSMITH GEAR REDUCER
W175	WHITING POUNDRY EQUIPMENT	W232	WINSMITH INC.
W180	WHITLOCK MANUFACTURING COMPANY, THE	W235	WINSTON MANUFACTURING COMPANY
W178	WHITMAN GENERAL CORP.	W236	WINTER BROTHERS COMPANY
W159	WHITNEY VALVE COMPANY	W237	WINTER CONTROL
W181	WHITNEY, J. C. & COMPANY	W234	WINTERBURN MANUFACTURING COMPANY
W282	WHITNEY, W. A. CO	W199	WINTRONICS, INC.
W185	WHITTAKER CORP.	W239	WIRE HOLD COMPANY
W190	WHITTAKER DIVISION OF TASKER INDUSTRIES	W238	WIRT & KNOX COMPANY
W189	WHITTAKER METALS	W246	WISCONSIN ASSOCIATES
W191	WHITTET-HIGGINS COMPANY	W240	WISCONSIN BRIDGE & IRON
W184	WHITTING CORP.	W241	WISCONSIN CENTRIFUGAL INC.
W192	WHOLESALE ELECTRIC SUPPLY COMPANY	W257	WISCONSIN CRANE & HOIST CORP
W193	WIANCKO ENGINEERING COMPANY	W243	WISCONSIN ELECTRIC POWER COMPANY
W194	WICHITA SHEET METAL SUPPLY COMPANY, INC.	W242	WISCONSIN MICHIGAN ELECTRIC COMPANY
W195	WICKES BOILER COMPANY	W264	WISCONSIN POWER & LIGHT CO (MADISON)
W187	WICKHAM GLASS COMPANY	W245	WISCONSIN PROTECTIVE COATING CORP.
W200	WIEGAND, EDWIN L. MANUFACTURING COMPANY	W247	WISCONSIN PUBLIC SERVICE CORP.
W210	WIGGINS, STANLEY B.	W248	WISCONSIN STEEL
W291	WIKA INSTRUMENTS CORP	W251	WISD
W213	WILD-HEERBRUGG CORP.	W244	WISNER AND BECKER
W196	WILDEN PUMP & ENGINEERING COMPANY	W249	WISS, JANNEY, ELSTNER AND ASSOCIATES
W212	WILDMAN BOILER & TANK	W250	WITCO CHEMICAL COMPANY
W216	WILKENS ANDERSON	W255	WKM VALVE DIVISION
W214	WILKERSON CORP.	W260	WOLFE AND MANN MANUFACTURING COMPANY, THE
W215	WILKES PRECISION	W255	WOLLENSAK, INC.
W211	WILKIN INSULATION	W270	WOLVERINE TUBE DIVISION
W278	WILKINS PIPE & SUPPLY CO INC	W284	WOOD INDUSTRIAL PRODUCTS COMPANY
W222	WILLAMETTA COMPANY	W275	WOOD, JOHN MANUFACTURING
W219	WILLIAMS & LANE INC.	W280	WOOD, N. COUNTER LABORATORY, INC.

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CODE	VENDOR NAME	CODE	VENDOR NAME
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W285	WOODBIDGE ORNAMENTAL	Y001	YANAS, G. J. COMPANY INC.
W288	WOODMAR WELDING & FABRICATING, INC.	Y004	YANKEE ATOMIC ELECTRIC COMPANY
W287	WOODS, T. B. AND SONS	Y005	YARNALL-WARING COMPANY
W290	WOODWARD GOVERNOR COMPANY	Y010	YARWAY CORP.
W295	WOODWARD-CLYDE CONSULTANTS	Y011	YAWATA IRON & STEEL COMPANY
W296	WOODWARD-LUNDGREN AND ASSOCIATES	Y012	YEATER, HENRY J. ASSOCIATES
W297	WOODWARD-MOORHOUSE & ASSOCIATES, INC.	Y014	YELLOW SPRINGS INSTRUMENT COMPANY INC.
W300	WOOLEY COMPANY	Y015	YEOMANS BROTHERS
W302	WOOLLEY, W. J. COMPANY	Y006	YOKOGAWA CORPORATION OF AMERICA
W303	WOOLSEY MAINE INDUSTRIES	Y016	YORK DIVISION OF BORG-WARNER
W304	WOOSTER ELECTRIC COMPANY	Y019	YORK ELECTRIC PANEL CONTROL CORP.
W301	WOOSTER PRODUCTS, INC	Y017	YORK SEPERATORS INC.
W305	WORCESTER CONTROLS CORP.	Y020	YORK, O. H. COMPANY
W306	WORCESTER POLYTECHNIC INST.-MECH ENG DEPT	Y023	YOUNG & BERTKE CO
W308	WORCESTER VALVE COMPANY INC.	Y024	YOUNG BKOS STAMP WORKS INC
W310	WORDEN-ALLEN COMPANY	Y021	YOUNG RADIATOR COMPANY
W312	WORLD WIDE RESEARCH	Y007	YOUNG, BEN T. CO
W313	WORTH WELDER SUPPLY	Y016	YOUNG, R. M. CO
W319	WORTHINGTON CEI INC.	Y022	YOUNGSTOWN SHEET AND TUBE COMPANY
W299	WORTHINGTON COMPRESSORS INC	Y025	YOUNGSTOWN STEEL TANK
W314	WORTHINGTON CONTROLS COMPANY	Y027	YOUNGSTOWN WELDING AND ENGINEERING
W315	WORTHINGTON CORP.	Y029	YUBA CONSOLIDATED INDUSTRIES
W309	WORTHINGTON PUMP CORP (MCGRAW-EDISON)	Y030	YUBA HEAT TRANSFER
W318	WORTHINGTON PUMP CORP.	Y028	YUGO-STAL, INC.
W317	WORTHINGTON SALES INTERNATIONAL	E007	ZACH COMPANY
W326	WRIGHT HOIST DIVISION	E001	ZACHRY, H. B. COMPANY
W323	WRIGHT WATERPROOFING COMPANY	E021	ZACK ELECTRONICS
W322	WRIGHT, F. B. COMPANY	E015	ZAHNER, A. SHEETMETAL COMPANY, INC.
W325	WRIGHT, HOWARD S. CONSTRUCTION COMPANY	E014	ZALK-JOSEPH COMPANY
W321	WRIGHT, NORMAN S. & COMPANY	E003	ZANE WELDCRAFT, INC.
W324	WRIGHT, SCHUCHART, HARBOR, INC.	E004	ZAUG, JOHN COMPANY
W320	WRIGHT-AUSTIN COMPANY	E018	ZEKS AIR DRIER CORP.
W327	WSP INDUSTRIES, INC.	E002	ZELLEA BROTHERS, INC.
W328	WULPTANGE IRON WORKS	E019	ZELLER ELECTRIC CO
W329	WURSTER, BERNARDI & ENMONS, INC.	E013	ZENITH CONTROLS, INC.
W330	WYATT DIVISION	E017	ZETEC, INC.
W335	WYATT INDUSTRIES, INC.	E009	ZETHYR METAL CRAFT INC.
W336	WYLE LABORATORIES	E006	ZIMMERMAN, E. W., INC.
W370	WYMAN-GORDON COMPANY	E008	ZINSCO ELECTRICAL PRODUCTS
X005	X-RAY ENGINEERING COMPANY	E005	ZIRCONIUM TECHNOLOGY CORP.
X003	X-RAY INC.	E020	ZOLTEC CORP
X007	X-RAY INDUSTRIAL	E023	ZONIC CORP
X010	X-RAY PRODUCTS CORP.	E011	ZORELCO
X004	X-RITE CO	E010	ZURN INDUSTRIES, INC.
X001	XEROX DATA SYSTEM	E016	ZWEIG, PHILIP & SONS, INC.
X012	XERXES FIBERGLASS INC (X-REF H119)	E022	ZYPCO INC
X002	XOMOX CORP.	E012	ZYTRON
X011	XTEX		
X013	XYCOM INC (FRMLY-PROC COMP SYS INC)		
Y003	YALE		
Y002	YALE & TONNE		

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SEE INSTRUCTIONS ON THE REVERSE

2 TITLE AND SUBTITLE

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Technical

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13 ABSTRACT (200 words or less)

The Nuclear Regulatory Commission's Office for the Analysis and Evaluation of Operational Data has developed, through the Nuclear Operations Analysis Center (NOAC) at Oak Ridge National Laboratory (ORNL), a data base for storing and organizing information obtained from the reports on construction deficiencies (CDRs) submitted to NRC under the requirements of 10 CFR 21 and 10 CFR 50.55(e) by holders of construction permits for nuclear facilities. The computerized data base stores coded and textual information about the reports issued and the events to which they refer, including such data as dates of events and reports, affected systems and components, source of information, manufacturers and vendors of affected components and the like. There is also provision for direct access to the data base by NRC Headquarters and Field Office staff both for accessing the information in the data base, and for entry of specific data concerning assignments of NRC follow-up staff and resolution actions taken. The document includes a tutorial guide for novice users of the data base. A system of access control to assure the integrity of the NRC-input data was developed and is described.

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