Monsanto

ORGANIC CHEMICALS DIVISION

Monsanto Company
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February 9, 1970

Dear Sir:

Recently several newspaper and magazine articles have been published indicating that Polychlorinated Biphenyls (PCBs) have been discovered at some points in some marine, aquatic and wildlife environments. The quantities detected are said to be in the parts per million and parts per billion categories.

It is claimed that the PCBs found strongly resemble chlorinated biphenyls containing 54% and 60% chlorine by weight. Products which are sold by Monsanto under the trade names of Aroclor® 1254 and 1260 do contain chlorinated biphenyls. In addition to Aroclor® 1254 and 1260, Monsanto sells certain functional fluids containing Aroclor® 1254. These include Pydraul® 625, Pydraul® AC, Pydraul® AC - Winter Grade, Pydraul® 540, Therminol® FR-3 and certain dielectric formulations. Several other companies around the world also produce products containing chlorinated biphenyls.

As your supplier of Aroclor® 1254 and 1260 and formulated products containing 1254, we wish to alert you to the potential problem of environmental contamination as referred to in the newspaper and magazine articles.

We would like to point out the following additional facts.

1. Products such as Pydraul® 90, 135, 230, 312, A-200, F-9, 150 and 60, Turbinol® 153 and Therminol® FR-1 and FR-2 are not formulated with Aroclor® 1254 or 1260.

2. PCBs with a chlorine content of less than 54% have not been found in the environment and appear to present no potential problem to the environment.

We have developed, and are now testing, new formulations to replace the Aroclor® 1254 and 1260 components in our Pydraul® products. The new products appear to be equal in performance and to have similar physical properties.

We feel that all possible care should be taken in the application, processing and effluent disposal of these products to prevent them becoming environmental contaminants. Of interest to you may be an article in Chemical Week, October 29, 1969 regarding water pollution standards set by each state in the Union. It is attached. This article reflects that good manufacturing practice in the future may require that no products used by any company should find their way into waterways.

Sincerely yours,

Don Olson

Donald A. Olson
Director of Sales
Functional Fluids Group

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Attachment

MCL000006

Environment

The huge water requirements of the chemical industry—now the nation's third largest user—make water quality and availability increasingly important factors for site selectors. Legislation enacted in recent years has forced planners to pay close attention to pollution control standards.

All 50 states have had their water quality standards approved entirely or in part by the Federal Water Pollution Control Administration (FWPCA). Recently a state-by-state summary of key standards was put together for the first time. Surprisingly, it was not the FWPCA that did the job. Instead it was handled by an American Public Health Assn. (APHA) subcommittee headed by TVA Health Director F. E. Gartrell, assisted by the APHA Engineering and Sanitation Section. A portion of the study, covering standards for surface industrial water, is summarized in the tables starting on p. 80.

Contrary to widely held opinions, there is considerable variation in state standards. Take the dissolved oxygen (DO) standard, for example. Minimum allowable DO (as milligrams per liter or percent saturation) is the single most important standard to chemical site evaluators. As a rough rule of thumb, a 2-mg./l. standard is considered to be one industry can live with comfortably, while a 6.0 mg./l. value is pegged "extremely tough."

California, Wyoming and Washington have set the standard at 6 mg./l. or higher. But a few states such as Connecticut, Maine, Illinois, Indiana, Massachusetts, Virginia and Wisconsin require 2 mg./l. or lower.

Other standards—notably turbidity, taste, odor, color and solids—may also be important, depending upon the nature of the chemical plant's waste effluents. These standards also exhibit state-by-state differences. Moreover, they are generally less specific than the straight numerical DO standards.

Although chemical plant site experts see little point in "running from tough standards," the criteria do make a difference: Plans for two nonferrous metals plants in Puerto Rico are now on the shelf, because of standards that call for a 4.5 mg./l. DO, no wastes that interfere with the esthetics of the waters and other specifications.

No compilation of ground water standards has yet been published. Ground water standards may prove important in the future as companies are forced to use costly deep-well disposal for wastes. Availability of ocean waste disposal services is also looming more important.

Waste Cost: The price tag for pollution control is high. A recent FWPCA study on the organic chemicals industry estimated that water waste-treatment facilities can increase installed capital equipment costs 40% or more. Between '69-'73, the organic chemical industry would have to shell out $182.5 million to remove 10% of its biological and chemical oxygen demand waste and 65% of its suspended solids. Removal levels of 83%, 13% and 71%, respectively, for biologic oxygen demand, chemical oxygen demand and suspended solids would require $242.6 million, while 98%, 30% and 89%, respectively, would up the ante to $608 million.

Cleaner Air: Establishment of air quality standards is not nearly as far advanced as are water standards. The National Air Pollution Control Administration (NAPCA) is still designating regional air control regions. At last count, 16 regions had been formally designated and another 41 had been proposed. NAPCA has issued air quality criteria and control technology data for sulfur oxides and particulate matter, will follow with similar studies for other pollutants.

Once criteria and control data have been issued for a pollutant and control regions have been designated, a complicated process involving standards, hearings and implementation and enforcement plans will be initiated that can take over a year to produce standards.

So far, no firm sulfur oxide or particulate standards have emerged. But NAPCA's criteria for setting the standards suggest they'll be tough. The oxide criteria report, for example, emphasizes that there are deleterious effects to man at concentrations as low as 0.04 ppm.

NAPCA's control data reports present detailed appraisals of various methods and equipment, along with estimated costs. As in the case of water, the costs will be high, although some pollutants—mainly sulfur dioxide—will have recovery values. NAPCA is sponsoring a number of research projects to improve technology. Pollution control is being spurred by financial assistance programs (mandated by state law) now operative in the following 28 states:

Arizona, Arkansas, California, Connecticut, Florida, Georgia, Idaho, Illinois, Indiana, Maine, Massachusetts, Michigan, Missouri, New Hampshire, New Jersey, New York, North Carolina, Ohio, Oklahoma, Oregon, Rhode Island, South Carolina, Tennessee, Vermont, Virginia, Washington, Wisconsin and West Virginia.

In addition, Pennsylvania offers financial aid sanctioned by administrative regulation. Several states, including Utah and Maryland have legislative studies under way.

The incentives take a variety of forms. Most common are exemption from personal property taxes (e.g., Arkansas), fast depreciation (Arizona), exemption from ad valorem equipment and structures taxes (Connecticut), exemption from local taxes for stated period of time (New Hampshire), operating loss deductions (New York); credit against state income tax (Oregon).

Quantity: The large chemical complexes now in vogue make water—and lots of it—a major site criterion. The cooler the water is, the better, for it can reduce the investment in heat-exchange equipment. Occasionally, plants can manage on ground water, but usually surface water is required. That means location on or near the big, drought-resistant rivers. There are less than 200 rivers in the U. S. with minimum flows over 50 cu. ft. per second *(CW Oct. 5, '68, pp. 94-95)*. For companies whose plant needs at least 100 cu. ft/second, the list numbers only 150 (excluding Alaska). Sea water is generally avoided because of high equipment corrosion costs.

Piping water in is expensive. Duval, now opening a 1.5 million tons/year sulfur mine in the arid Northwest area, was forced to install a 36-in., 38-mile-long water line and a 40-million-gal. reservoir. Cost of the water supply system hasn't been disclosed, but it is estimated that the tab was at least several million dollars.

The adequacy of domestic water resources in the year 2000 has recently been evaluated by the Geological Survey. Nationally, projected demand will be 173% of potentially assured supply. Only in three regions, New England, Ohio, and the South Atlantic Eastern Gulf, will future water requirements be easily met. Economic growth may be handicapped in nine regions: Eastern Great Lakes, Lower Mississippi, Upper Missouri-Hudson Bay, Lower Missouri, Western Gulf–Rio Grande, Pecos, Colorado, Great Basin, and Central and South Pacific.

MCL000007

For the first time, a summary of water quality standards set by all 50 states.

	pH Allowable		Temperature (°F) allowable		Dissolved oxygen	Other Requirements
	Range	Deviation	Maximum	Increase above ambient	(minimum, mg./l. or %)	
Alabama	6.0–8.5	1.0	90° (24 hrs.) 93° (any 8 hrs.) 93° (cooling water)	10% — 10°	2.0 at 5 ft. or middepth if less than 10 ft.	**Radioactivity, Color, Taste and Odor, Toxic Substances:** Only in amounts that would not render waters unsuitable for industrial-cooling and process-water supply purposes. **Solids:** Free from waste materials that cause unsightly or putrescent conditions or interfere directly or indirectly with industrial use.
Alaska	7.0–8.0	0.5	70°	—	5.0	**Radioactivity:** Not to exceed limits of PHS Drinking Water Standards. **Turbidity:** No imposed values that would interfere with established levels of treatment. **Color:** True color less than 50 color units. **Taste and Odor:** Shall not unreasonably impair esthetic considerations. **Solids:** No dissolved solids above natural conditions causing corrosion or scaling problems. No visible evidence of other floating solids or sludge deposits. No imposed sediment loads that would interfere with established treatment levels.* **Toxic Substances:** Chemical constituents should be below concentrations found to be of public health significance.*
Arizona	6.5–8.6	0.5	93°	5°	—	**Radioactivity:** Not to exceed 1/30 of the MPC$_e$ value given for continuous occupational exposure in NBS Handbook 69. **Turbidity:** 50 JCU (streams); 25 JCU (lakes). **Color:** Free from waste materials in amounts sufficient to change existing color enough to interfere with industrial use or to create a nuisance. **Taste and Odor:** Free from wastes in amounts sufficient to produce enough taste and odor to create a nuisance or interfere with industrial use. **Solids:** Free from wastes that would be unsightly, putrescent, odorous or in amounts that would interfere with industrial use. **Toxic Substances:** Free from wastes toxic to human, animal, plant or aquatic life or in amounts that would interfere with industrial use.
Arkansas	6.0–9.0	1.0 (24 hrs.)	95°	5°	4.0 (average for any cross section)	**Radioactivity:** "Rules and Regulations for the Control of Ionizing Radiation," Arkansas Board of Health, apply. **Turbidity:** No distinctly visible increases due to wastes. **Color:** Shall not be increased to the extent that it interferes with industrial use, present or future. **Taste and Odor:** Must not cause offensive odors or otherwise interfere with industrial use. **Solids:** No distinctly visible persistant solids, bottom deposits or sludge banks due to wastes. **Toxic Substances:** Must not be present in amounts toxic to human, animal, plant or aquatic life.
California	6.5–8.6 7.0–8.6 (Coastal waters)	—	71.6°* (fresh water)	None that would cause ecological change or harm aquatic life (coastal waters)*	6.0 Coastal water: 5.0 (unless naturally lower)	**Radioactivity:** Shall not exceed 1/10 of the MPC$_e$ values given for continuous occupational exposure in NBS Handbook 69. **Turbidity:** Free from wastes that could alter water's existing turbidity. **Color:** Free from substances attributable to wastes that produce detrimental color. **Taste and Odor:** No substances that impart foreign taste or odor. **Solids:** Dissolved solids in fresh water must not exceed 300 mg./l. at any time; annual mean: 175 mg./l. Settleable solids must not be able to change nature of stream bottom or harm aquatic environment. **Toxic Substances:** At all times free from concentrations harmful to humans, aquatic life or wild or domestic animals.
Colorado	5.0–9.0	—	93°	—	3.0	**Radioactivity:** Not to exceed 1/30 of the 168-hr.-week values in NBS Handbook 69. **Turbidity:** Must not interfere with established levels of treatment. **Color:** Wastes present must not cause appreciable change in color or interfere with industrial use. **Taste and Odor:** Free from wastes that cause odor or appreciable change in taste. **Solids:** Free from wastes that are unsightly, putrescent or odorous or would interfere with use. **Toxic Substances:** Free from wastes in concentrations or combinations sufficient to harm human or animal life.
Connecticut	6.0–9.0	—	—	None unless it does not exceed recommended limits for industrial use	2.0	**Radioactivity:** Limits to be approved by appropriate state agency. **Turbidity, Color, Taste and Odor:** None in such quantities that would impair industrial use. **Solids:** Limited to small amounts that may result from discharge of appropriately treated wastes. **Toxic Substances:** Free from chemical constituents in concentrations or combinations harmful to human, animal or aquatic life.
Delaware	6.5–8.5	—	—	5°	50%* or 4.0	**Radioactivity:** Alpha emitters limited to 3 pc/l.; beta emitters, to 1,000 pc/l. **Color, Taste and Odor:** None in concentrations that cause color, taste or odor. **Solids:** Free from unsightly and malodorous nuisances due to floating solids or sludge deposits. **Toxic Substances:** None in concentrations harmful (synergistically or otherwise) to humans, fish, shellfish, wildlife or aquatic life.
Florida	6.0–8.5	1.0	—	—	4.0	**Radiation:** Gross beta—1,000 pc/l. (in absence of Sr-90 and alpha emitters). **Turbidity:** 50 JCU. **Color:** Must not render water unfit for industrial-cooling or process-water supply purposes. **Taste:** Must not render water unfit for industrial use; phenols 0.001 maximum. **Solids:** Dissolved solids must not exceed 1,000 mg./l.; monthly average: 500 mg./l. Must be free from floating wastes that are unsightly or deleterious or other wastes that settle to form putrescent or objectionable sludge deposits. **Toxic Substances:** Free from wastes harmful to human, animal or aquatic life. Cu, 0.5 mg./l.; Za, 1.0; Cr, 0.05; Pb, 0.05; Fe, 0.3; As, 0.05; F, 10.0; Cn, none detectable.

MCL000008

	pH Allowable Range	Deviation	Temperature (°F) allowable Maximum	increase above ambient	Dissolved oxygen (minimum mg./L. or %)	Other Requirements
Georgia	6.0-8.5	—	93.2°	10° (above intake)	2.5 3.0 (daily average)	Radioactivity: Must conform to state statutes. Turbidity, Color, Taste and Odor: Free from wastes that cause objectionable conditions or interfere with industrial use. Solids: Free from wastes that are unsightly, putrescent or otherwise objectionable or would interfere with industrial use. Toxic Substances: No wastes in concentrations that would prevent fish survival or interfere with industrial use.
Hawaii	6.5-8.5	—	—	—	4.0	Radioactivity: Not to exceed 1/30 of the values given by NBS Handbook 69. Turbidity: Free from soil particles from erosion caused by land development or agricultural use. Taste and Odor: Wastes, after dilution and mixture, must not interfere with industrial use. Toxic Substances: Free from substances in concentrations harmful to human, animal, or marine life or that make waters unsuitable for industrial use.
Idaho	6.5-8.5	0.5	—	2° Only if water 68° or less	75% (at sonal low)	Radioactivity: Not to exceed limits of '62 PHS Drinking Water Standards. Turbidity: No objectionable turbidity that can be traced to a point source. Solids: No floating or submerged matter or sludge deposits that could adversely affect industrial use. Toxic Substances: No wastes of other than natural origin in concentrations of public health significance or that could adversely affect industrial use.
Illinois	5.0-9.0	—	95°	—	3.0 5.0 (for 16 hrs. in any 24-hr. period)	Color, Taste and Odor: Free from wastes that produce color, odor or taste in such a degree as to create a nuisance. Solids: Free from floating wastes that settle and form unsightly, deleterious or putrescent deposits. Toxic Substances: Free from wastes in concentrations or combinations harmful to human, animal, plant or aquatic life.
Indiana	5.0-9.0	—	95°	—	1.0 2.0 (daily average)	Color, Taste and Odor: Free from wastes that produce color, taste or odor in such a degree as to create a nuisance. Solids: Dissolved solids must not exceed 1,000 mg./l.; monthly average, 750 mg./l. Must be free from unsightly, putrescent, deleterious or otherwise objectionable wastes. Toxic Substances: Free from wastes in concentrations or combinations harmful to human, animal, plant or aquatic life.
Iowa	—	—	—	—	—	Color, Taste and Odor: Free from wastes that produce color, taste or odor in such a degree as to be detrimental to industrial use. Solids: Free from floating wastes in amounts that would be unsightly or deleterious or other wastes that settle to form putrescent or objectionable sludge deposits. Toxic Substances: No wastes in concentrations or combinations detrimental to human, animal or aquatic life or to industrial use.
Kansas	6.5-9.0	—	90°*	—	4.0*	Turbidity: No increase that causes substantial visible contrast with natural appearance or that is detrimental to industrial use. Color: Discharges of color-producing substances limited to concentrations not detrimental to industrial use. Taste and Odor: Concentrations limited to those that would not result in noticeable offensive odors or otherwise interfere with industrial use. Solids: Free from floating debris or material in amounts that would be unsightly or detrimental to industrial use. Toxic Substances: Pollutional substances must be maintained below concentrations detrimental for industrial use.
Kentucky	5.0-9.0	—	93° 73° (Dec.-Feb.)	5°/hr 10°/day	—	Color, Taste and Odor: Wastes must not create a nuisance. Solids: Dissolved solids must not exceed 1,000 mg./l.; monthly average: 750 mg./l. No floating wastes in unsightly or deleterious amounts; no other wastes that settle to form putrescent or objectionable sludges. Toxic Substances: No wastes in concentrations or combinations harmful to human, animal, plant or aquatic life.
Louisiana	6.0-9.0	—	96.8°	5.4°	50%	Radioactivity: Specific limits set for all radioactive isotopes released as waste. Solids: None that would produce floating masses, sludge banks or beds on bottom, either organic or inorganic. Toxic Substances: No wastes in concentrations or combinations harmful to animal or plant life.
Maine	6.0-9.0*	0.5*	90°*	—	2.0*	Radioactivity: Not to exceed '62 PHS Drinking Water Standards. Turbidity, Color, Taste and Odor: Free from wastes that impart turbidity, color, taste or odor or impair industrial use. Solids: Free from sludge deposits, solid refuse and floating solids. Toxic Substances: No chemical constituents from waste sources harmful to humans or that adversely affect industrial use.
Maryland	6.0-8.0 (unless natural)	—	100°	—	4.0 (unless naturally lower)	Color, Taste and Odor: Free from waste materials that change existing color or produce taste and odor to such a degree as to create a nuisance or interfere with industrial use. Solids: Free from wastes that float, settle to form deposits, create a nuisance or interfere with industrial use and are unsightly, putrescent or odorous. Toxic Substances: Free from toxic wastes that interfere with industrial use or that are harmful to human, plant, animal or aquatic life.
Massachusetts	6.0-8.0	—	90°	—	2.0	Radioactivity: None in concentrations harmful to human, animal or aquatic life. Turbidity, Color, Taste and Odor: None in concentrations that would impair industrial use. Solids: None allowed except that which may result from the discharge from waste-treatment facilities providing appropriate treatment. Toxic Substances: None in concentrations or combinations harmful to human, animal or aquatic life.

MCL000009

Water quality standards

	pH Allowable Range	pH Allowable Deviation	Temperature (°F) allowable Maximum	Temperature (°F) allowable Increase above ambient	Dissolved oxygen (minimum mg./l. or %)	Other Requirements
Michigan	6.5–8.5	0.5	—	10°	Enough to prevent nuisance	Radioactivity: Standards to be established when information is available on deleterious effects. Turbidity, Color: No objectionable unnatural turbidity or color in quantities sufficient to interfere with industrial use. Taste and Odor: Below levels that are or may become injurious to industrial use. Solids: Dissolved solids must not exceed 750 mg./l.; monthly average: 500 mg./l. No floating solids or objectionable deposits in quantities that would interfere with industrial use. Toxic Substances: Limited to concentrations less than those that are or may become injurious to this use.
Minnesota	6.0–9.0	—	86°	—	—	Color, Taste and Odor, Solids: Free from wastes that cause nuisance conditions, such as material discoloration, obnoxious odors, significant floating solids, excessive suspended solids or sludge deposits.
Mississippi	6.0–8.5	1.0	93°	10°	3.0	Color, Taste and Odor: Free from wastes that produce color or odor in such degree as to create a nuisance. Solids: Dissolved solids must not exceed 1,500 mg./l.; monthly average 750 mg./l. Must be free from floating wastes that settle to form unsightly, deleterious, objectionable or putrescent deposits. Toxic Substances: No wastes in concentrations or combinations harmful to human, animal or aquatic life.
Missouri	6.5–9.0	—	90°	5° (average of cross section)	5.0*	Radioactivity: Gross beta: 1,000 pc/l. (In absence of Sr-90 and alpha emitters). Sr-90: 10 pc/l. Dissolved Ra-226: 3 pc/l. Color: Wastes must not cause substantial visible contrast with natural appearance of stream or interfere with industrial use. Taste and Odor: Limited to concentrations that would not result in noticeable offensive odors or otherwise interfere with industrial use. Solids: No noticeable organic or inorganic deposits or floating materials in unsightly or deleterious amounts. Toxic Substances: Concentrations not detrimental to industrial use or toxic to humans, fish, wildlife. F:1.2.
Montana	6.5–9.5	0.5	—	No adverse change	—	Radioactivity: Not to exceed '62 PHS Drinking Water Standards. Turbidity: Must not interfere with established levels of treatment. Color, Taste and Odor: Water shall be maintained in condition not offensive to sense of sight or smell. Solids: No floating solids and sludge deposits in amounts deleterious to industrial use; no sediments or settleable solids that affect treatment levels. Toxic Substances: Amounts present must not adversely affect industrial use.
Nebraska	6.5–9.0	1.0	90°	5° (May-Oct.) 10° (Nov.-Apr.) Rate: 2°/hr.	5.0	Radioactivity: Must conform with Radiological Health Regulations (1st. ed.), State of Nebraska, '66. Turbidity: No more than 10% increase above normal level. Color: No evidence of matter that creates nuisance conditions. Taste and Odor: Less than amounts that would degrade water quality for industrial use; phenol: 0.001 mg./l. Solids: Dissolved solids must not exceed 1,500 mg./l. No more than 20% increase (limit 100 mg./l.) from any point source. No waste solids that permit deposition or are deleterious to industrial use. Toxic Substances: None in concentrations or combinations that would render water unsuitable for industrial use.
Nevada	6.5–8.5 Annual median: 7.4–8.3	—	77.0° (summer) 57.2° (winter)	—	5.0 6.0 (average, June-Sept.)	Radioactivity: Limited to 1/10 of the 168-hr.-week values in NBS Handbook 69. Turbidity, Color, Taste and Odor: Free from wastes in amounts sufficient to change existing turbidity or color enough to create a nuisance or interfere with industrial use, or to produce taste or odor in the water. Solids: Free from floating or other wastes that settle to form sludge banks or deposits in amounts that would be unsightly or odorous or interfere with industrial use. Toxic Substances: Free from wastes in concentrations or combinations toxic to human, animal, plant or aquatic life or that interfere with industrial use.
New Hampshire	6.0–8.5 (unless natural)	—	90°*	No increase that would interfere with this use*	5.0	Turbidity, Color, Taste and Odor: None in objectionable amounts. Solids: No floating solids or sludge deposits in objectionable amounts. Toxic Substances: None in toxic concentrations or combinations.
New Jersey	6.5–8.5 (unless natural)	—	87° (unless natural)	5° (up to 87°)	4.0*	Turbidity, Solids: None noticeable in water or deposited along shore. Color, Taste and Odor: None that are offensive to humans or detrimental to aquatic biota. Toxic Substances: None that would affect humans or be detrimental to aquatic biota.
New Mexico	6.6–8.6	—	—	Must not pollute or make water unfit for this use	No oxygen demand that would cause pollution	Radioactivity: Not greater than 1/10 of the 48-hr. value in NBS Handbook 69. Turbidity: Shall not cause substantial visible contrast with natural appearance. Color: Should not create an esthetically undesirable condition. Taste and Odor: No odors, other than of natural origin, that are esthetically objectionable or obnoxious. Solids: No objectionable floating solids or debris and sediment that significantly alter properties of bottom. Toxic Substances: No amounts toxic to humans, plants, fish, animals.
New York	6.0–9.5	—	85°	5° (average 7 days) Rate: 2°/hr. 9°/24 hrs.	3.0	Color: No colored wastes that alone or in combinations make water unsuitable for industrial use. Solids: No floating or settleable solids or sludge deposits that are readily visible and attributable to wastes. Toxic Substances: None alone or in combinations that would impair industrial use.

MCL000010

Water quality standards

	pH Allowable		Temperature (°F) allowable		Dissolved oxygen	Other Requirements
	Range	Deviation	Maximum	Increase above ambient	(minimum) mg./l. or %	
North Carolina	Normal for area, usually 6.0-8.5; as low as 4.5 in swamps	—	95°*	7°	3.0	Color: Must not render water unfit for industrial cooling. Solids: Must not, after dilution and mixture, make water unfit for industrial cooling. Toxic Substances: Must not make water unfit for industrial cooling.
North Dakota	6.0-9.0	0.5	93°	10°	3.0 5.0 (for 16 hrs./day)	Radioactivity: No discharge allowed unless materials are readily soluble or dispersible and of quantities acceptable to state health department. Color, Taste and Oder: No wastes that color water or result in objectionable odors to a degree that impairs industrial use. Solids: No unsightly floating wastes that would adversely affect industrial use or wastes that settle to form putrescent or objectionable deposits. Toxic Substances: No concentrations or combinations harmful to human, animal or aquatic life.
Ohio	6.0-9.0	—	95°	—	1.0 2.0 (daily average)	Color, Taste and Oder: Free from wastes that produce color or odor to a degree that creates a nuisance. Solids: Dissolved solids must not exceed 1,000 mg./l.; monthly average: 750 mg./l. Must be free from floating or other wastes that settle to form putrescent or objectionable deposits or that are unsightly or deleterious. Toxic Substances: No wastes in concentrations or combinations harmful to human, animal or aquatic life.
Oklahoma	6.5-8.5	—	93°	5°	4.0	Radioactivity: Average concentration at points of controlled release shall not exceed State Board of Health Radiation Protection Regulations. Turbidity: None that causes visible contrast with natural conditions. Color: None that is persistent in concentrations detrimental to industrial use. Taste and Odor: No concentrations that would cause offensive odors in vicinity of water or otherwise interfere with industrial use. Solids: Free from floating debris, bottom deposits or other materials. Toxic Substances: None in quantities that make water toxic to human, animal, plant or aquatic life.
Oregon	6.5-9.0	—	—	2° (only if water 70° or less)	5.0	Radiation: Shall not pose external hazard. Turbidity: 5 JCU above natural. Color, Taste and Oder: No objectionable discoloration or conditions esthetically offensive to human senses of taste or smell. Solids: No floating solids, organic or inorganic deposits injurious to industry. Toxic Substances: No conditions injurious to public health.
Pennsylvania	6.0-9.0	—	93°	2°/hr.	4.0 5.0 (daily average)	Color, Taste and Oder: No wastes that produce colors, tastes or odors in amounts harmful to industrial use. Solids: Dissolved solids must not exceed 750 mg./l.; monthly average: 500 mg./l. No floating wastes or substances that settle to form sludge in amounts harmful to industrial use. Toxic Substances: None in amounts harmful to industrial use.
Rhode Island	6.0-8.5	—	—	4°	3.0* 5.0* (16 hrs./day)	Radioactivity, Toxic Substances: No concentrations or combinations harmful to human, animal or aquatic life. Turbidity, Taste and Odor: None in concentrations that would impair industrial use. Solids: No solid refuse, floating solids or sludge deposits.
South Carolina	6.0-8.5 5.0-8.5 (swamps)	—	93.2°*	10°*	3.0* 2.5* (swamps)	Turbidity, Color, Taste and Oder: Free from wastes that change the existing turbidity or color or that produce taste or odor to such a degree as to cause a nuisance or interfere with industrial use. Solids: None from waste sources in amounts that are unsightly, putrescent, odorous or that cause a nuisance or interfere with industrial use. Toxic Substances: Free from wastes harmful to human, animal, plant or aquatic life or that interfere directly or indirectly with industrial use.
South Dakota	6.0-9.5	1.0	—	—	—	Radioactivity: None permitted in water unless readily soluble or dispersible and in quantities allowed by federal or state agencies. Color, Taste and Oder: No wastes that produce material discoloration or undesirable odors. Solids: Dissolved solids must not exceed 2,000 mg./l. No wastes producing floating solids, sludge deposits or other offensive effects. Toxic Substances: None in concentrations toxic to human, animal or aquatic life.
Tennessee	6.0-9.0	1.0 (24 hrs.)	93°	10°* Rate: 5°/hr.	Enough to prevent offensive conditions	Radioactivity: None that could adversely affect industrial use. Turbidity, Color: None in amounts or concentrations that could not be reduced to acceptable levels by conventional treatment. Taste and Oder: None that would result in taste or odor that would prevent use for industrial processing. Solids: Dissolved solids must not exceed 500 mg./l. No distinctly visible solids, bottom deposits or sludge banks that could be detrimental to industrial use. Toxic Substances: None that produces toxic conditions that would adversely affect water for industrial use.
Texas	6.0-8.5 6.0-9.0 (cooling water)	—	—	—	4.0	Radioactivity: Regulated by Texas Radiation Control Act and Texas Regulations for Control of Radiation. Turbidity: No substantial increase due to wastes. Color: No substantial visible contrast with natural appearance of receiving waters after wastes receive best practical treatment. Taste and Odor: No concentrations that produce offensive odors. Solids: Dissolved solids must not exceed 1,000 mg./l., unless water used only for cooling. Must be essentially free from floating or settleable suspended solids that would adversely affect industrial use. Toxic Substances: Shall not show acute or chronic toxicity to humans, animals or aquatic life to such an extent as to interfere with industrial use.

MCL000011

Water quality standards

	pH Allowable Range	pH Allowable Deviation	Temperature (°F) allowable Maximum	Temperature (°F) allowable Increase above ambient	Dissolved oxygen (minimum mg./l. or %)	Other Requirements
Utah	6.5-9.0	—	—	—	—	Radioactivity: Shall not exceed 1/30 of MPC$_w$ values for continuous occupational exposure in NBS Handbook 69. Turbidity, Color: No wastes in amounts that would change existing turbidity or color enough to create public nuisance or interfere with industrial use. Taste and Odor: No wastes in amounts that would produce taste or odor. Solids: No floating wastes that are unsightly or that interfere with industrial use; no wastes that settle to form unsightly or odorous sludge or bottom deposits. Toxic Substances: No wastes in concentrations or combinations toxic to human, animal, plant or aquatic life or that would interfere with industrial use.
Vermont	6.0-8.5	—	—	4°	3.0* 5.0* (16 hrs./day)	Radioactivity: To be approved by appropriate state agency. Turbidity, Color, Taste and Odor: None in concentrations that would impair industrial use. Solids: No floating solids, sludge deposits or solid refuse. Toxic Substances: No chemical constituents in concentrations or combinations harmful to human, animal or aquatic life.
Virginia	5.0-9.0 (swamps as low as 4.3)	—	95°* (unless naturally higher)	No sudden changes that could harm aquatic life	1.0* 2.0* (daily average)	Color, Taste and Odor: No wastes that change existing color or produce odor to such a degree as to create a nuisance or interfere with industrial use. Solids: No floating wastes that are unsightly or create a nuisance or other wastes that settle to form unsightly, putrescent or odorous deposits. Toxic Substances: No wastes in concentrations or combinations that would interfere directly or indirectly with industrial use.
Washington	6.5-8.5	0.5	70°	t = 110/(T-15)†	6.5 or 70%	Radioactivity, Toxic Substances: Below concentrations that could adversely affect industrial use. Turbidity: Less than 10 JCU over natural conditions. Color, Taste and Odor, Solids: Dissolved, suspended, floating or submerged matter shall not reduce esthetic values so as to affect industrial use.
West Virginia	Process water: 6.5-9.0 Cooling water: 5.0-9.0	—	Cooling water: 93° (May-Nov.) 73° (Dec.-Apr.) Process water must permit fish passage	— 5° Rate: 2°/hr. (Dec.-Apr.)	1.0 2.0 (daily average)	Color: None that is objectionable. Taste and Odor: No objectionable odors in vicinity of the water. Solids: No distinctly visible floating, settleable or suspended solids of unreasonable kind or quantity. No objectionable bottom deposits or sludge banks. Toxic Substances: No concentrations of materials poisonous to human, animal or fish life.
Wisconsin	6.0-9.0	0.5	89°	—	1.0 2.0 (daily average)	Color, Taste and Odor: No materials producing color, taste or odor in amounts that would create a nuisance. Solids: Dissolved solids must not exceed 1,000 mg./l.; daily average: 750 mg./l. No floating or submerged debris or waste substances that would cause objectionable deposits in amounts to create a nuisance. Toxic Substances: None in concentrations or combinations toxic to humans or of public health significance.
Wyoming	6.5-8.5	—	—	4° 2° (for streams where temp. not over 70°)	6.0	Radioactivity: Not to exceed 1/30 of NBS Handbook 69 values. Turbidity: No more than 15 JCU above natural (when turbidity is 150 JCU or less); otherwise, no more than 10% above natural. Color: Essentially free of wastes that visibly alter natural color of water or impart color to vessels or structures. Taste and Odor: Essentially free from substances that would produce detectable odor at site of use. Solids: Essentially free from floating or settleable solids that are unsightly or settle to form sludge, bank or bottom deposits. Toxic Substances: Free from toxic substances in concentrations or combinations toxic to human, animal or aquatic life.

* Standard reserved from Federal Water Pollution Control Administration approval.
† t = total cumulative heat addition allowed from unnatural waste sources, at any point throughout the given stream reach. T = highest occurring temperature for a given period, in a specific stream reach.
Abbreviations: PHS—Public Health Service; NBS—National Bureau of Standards; JCU—Jackson Candle Units; pc/l.—picocuries per liter.
Source: Water Quality Standards of the United States, Territories, and the District of Columbia, American Public Health Assn., Subcommittee on Water Quality Control, and Engineering and Sanitation Section.
Note: Specific limits for coliforms, biologic oxygen demand, plant nutrients, oil, grease, scum, bottom deposits, pesticides, specific conductance, carbon chloroform extract, synthetic detergents not included. Some states set standards for each stream reach or river basin; in such cases, table shows least stringent requirement.

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Gulton Industries, Inc.
312 Durham Avenue
Metuchen, New Jersey

Director of Purchases
Hachmeister, Inc.
1300 Island Avenue
P. O. Box 357
Pittsburgh, Pa.

Director of Purchases
Hamilton Manufacturing Co.
P. O. Box 6494
Richmond, Virginia

Director of Purchases
Hamilton Standard Division
United Aircraft Corporation
Windsor Locks, Connecticut

Office of the President
E. L. Harley Company
8701 Third Avenue
Brooklyn, New York 11209

Director of Purchases
Harshaw Chemical Company
Div. Kewanee Oil Company
19200 Villaview Road, N.E.
Centerline Bldg., Room 303
Cleveland, Ohio 44119

Director of Purchases
Harvey Aluminum, Inc.
19200 S. Western Avenue
Torrance, California 90509

Office of the President
Heat & Control, Inc.
225 Shaw Road
S. San Francisco, California
94080

Office of the President
Henderson Portion Pak
4015 Laguna Street
Coral Gables, Florida

Director of Purchases
Hevi Industries, Inc.
900 Greenbank Road
Wilmington, Delaware

Director of Purchases
Hercules, Inc.
900 Market Street
Wilmington, Delaware

Director of Purchases
Hercules, Inc.
Imperial Color Chemical
& Paper Department
Glens Falls, New York

Director of Purchases
Hexagon Laboratories, Inc.
3536 Peartree Avenue
Bronx 69, New York

Office of the President
High Vacuum Metals, Inc.
180 Dayton Avenue
Passaic, New Jersey

Director of Purchases
Hitco
P. O. Box 1097, Alondra Sta.
1600 West 135th Street
Gardena, California

Director of Purchases
Hodag Chemical Corporation
7247 N. Central Park
Skokie, Illinois 60076

Office of the President
Hoffmeister Cabinets
3069 Sheridan Street
Las Vegas, Nevada

Director of Purchases
Hooker Chemical Corporation
P. O. Box 344
Niagara Falls, New York

Director of Purchases
Hooker Chemical Company
Rose Division
New South Road
Hicksville, Long Island, N.Y.

MCL000021

Office of the President
Horn & Hardart Baking Co.
9401 Blue Grass Road
Philadelphia, Pa. 19114

Director of Purchases
Imperial Adhesives & Chemicals
6315 Wiehe Road
Cincinnati, Ohio 45216

Director of Purchases
City of Huntsville, Ala.
Industrial Development Board
c/o PPG Industries, Inc.
1 Gateway Center
Pittsburgh, Pa. 15222

Director of Purchases
Inmont Corporation
1754 Dana Avenue
Cincinnati, Ohio 45207

Director of Purchases
INC Corporation
Stream-Heater International
400 West Roosevelt Avenue
Bensenville, Ill. 60106

Director of Purchases
Interpace
International Pipe & Ceramics
Corporation
P. O. Box 785
Lone, California 95640

Director of Purchases
International Paper Company
Container Division
Clyde & Warwick Streets
Somerville, Mass. 02145

Director of Purchases
International Paper Company
Container Division
P. O. Box 185
Auburndale, Florida 33823

Director of Purchases
Iowa State College
Ames, Iowa

Director of Purchases
Hunt Foods
United Can Division
P. O. Box 991
Fullerton, California

Office of the President
Inco Inks, Inc.
1836 Stanley Street
Northbrook, Ill. 60062

Director of Purchases
Inmont Corporation
2935-71 Milford Avenue
Detroit, Michigan 48210

Director of Purchases
Inmont Corporation
P. O. Box 911
Toledo 1, Ohio

Director of Purchases
International Paper Company
Pond Du Lac, Wisconsin 54935

Director of Purchases
Interplastics Corporation
Commercial Resins Division
2015 N.E. Broadway
Minneapolis, Minnesota

Director of Purchases
International Paper Company
Bagpak Division
Camden, Arkansas

Director of Purchases
J. M. Huber Corporation
Clay Division
Twiggs County
Huber, Georgia

Director of Purchases
I.C.I. America, Inc.
P. O. Box 1274
151 South Street
Stamford, Connecticut 06904

Director of Purchases
Crawford Manufacturing Co., Inc.
Third & Decatur Streets
Richmond, Virginia 23212

Director of Purchase
Inmont Corporation
P. O. Box 509
St. Louis, Missouri 63166

Director of Purchases
Intalco Aluminum Corp.
P. O. Box 937
Ferndale, Washington 98248

Director of Purchases
Intercontinental Plastics
825 Trask Avenue
Dallas, Texas 75210

Director of Purchases
International Flavors &
Fragrances, Inc.
Van American Haebler Division
521 West 57th Street
New York, New York

Director of Purchases
International Paper Company
Bagpak Division
1601 Los Plumas
San Jose, California

Director of Purchases
Interstate Bakeries
40 East Garfield
Chicago, Illinois 60615

Director of Purchases
Jasper Rubber Products, Inc.
Jasper, Indiana

MCL000022

Director of Purchases
Jiffy Manufacturing Co.
High Point, North Carolina

Director of Purchases
Jiffy Manufacturing Co.
360 Florence Street
Hillside, New Jersey

Director of Purchases
Jiffy Manufacturing Co.
237 Ridge Avenue
Hanover, Pa. 17331

Director of Purchases
Jiffy Manufacturing Co.
P. O. Box 469
Salem, Illinois 62881

Director of Purchases
Jiffy Packaging, Inc.
16330 Piedbe Avenue
La Mirada, California 90638

Director of Purchases
Chicopee Manufacturing Company
Milltown, New Jersey 08850

Director of Purchases
Johnson & Johnson
501 George
New Brunswick, N.J. 08901

Director of Purchases
Jefferson Chemical Company, Inc.
P. O. Box 53500
3336 Richmond Avenue
Houston, Texas 77052

Director of Purchases
KABL Radio Station
632 Commercial Street
San Francisco, California

Director of Purchases
Kaiser Aluminum & Chem. Corp.
300 Lakeside Drive
Oakland, California 94604

Director of Purchases
Kard Manufacturing Company
5304 Valley Blvd.
Los Angeles, California 90032

Director of Purchases
Kawecki Beryles Industries, Inc.
P. O. Box 60
Boyertown, Pa. 19512

Director of Purchases
Kendall Company
Bauer & Black Division
2500 South Dearborn Street
Chicago 16, Illinois

Director of Purchases
Kent Plastics Corporation
1528 North Fulton Avenue
Evansville 10, Indiana

Office of the President
Kentile Floors, Inc.
58 Second Avenue
Brooklyn, New York 11215

Office of the President
Key Equipment Company
P. O. Box 6
Milton-Freewater, Oregon 97862

Director of Purchases
Koppers Company, Inc.
750 Koppers Building
Pittsburgh, Pennsylvania

Office of the President
Keres Manufacturing Co.
701 Whittier Street
Bronx, New York

Director of Purchases
Koss Construction Company
Box 277
Yukon, Oklahoma 73099

Office of the President
K-S-H Plastics, Inc.
10091 Manchester Road
St. Louis, Missouri

Director of Purchases
L. E. Smith Company
P. O. Box 428
Bryan, Ohio 43506

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Laclede Gas Company
P. O. Box 148
Florissant, Missouri

Office of the President
Lane Company, Inc.
Altavista, Virginia 24517

Office of the President
Lawson Chemical Corporation
P. O. Box 128
East St. Louis, Illinois

Director of Purchases
Latrobe Steel Company
Latrobe, Pennsylvania

Director of Purchases
Lawrence Paper Company
Lawrence, Kansas

Director of Purchases
Lawler Chemicals, Inc.
24 Jacobus Avenue
South Kearny, New Jersey

MCL000023

Office of the President
Lee Deane Products, Inc.
15511 S. Carmenita Road
Santa Fe Springs, California

Office of the President
Loco-Brudner Company
12120 Elmwood Avenue
Cleveland, Ohio 44111

Office of the President
Lesli Manufacturing Corp.
Rocky Avenue
Lebanon, Tennessee 37087

Office of the President
Liberty Machine Co., Inc.
275 Fourth Avenue
Paterson, New Jersey

Office of the President
Lisbon Vinyl Dyne Corporation
P. O. Box 77
Lisbon, Maine 04250

Director of Purchases
Hewitt Robins, Inc.
Hewitt Rubber Division
240 Kensington Avenue
Buffalo, New York

Director of Purchases
Lockheed-Georgia Company
Marietta, Georgia

Director of Purchases
The Lubrizol Corporation
Deer Park, Texas

Director of Purchases
Lubrizol Sales Company
Euclid Station
Cleveland 17, Ohio

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Luna Corporation
P. O. Box 8009
Charlotte, North Carolina

Office of the President
MR Plastics & Coatings, Inc.
11460 Dorsett Road
Maryland Heights, Mo. 63043

Office of the President
Maclin Company
6700 Stanford Avenue
Los Angeles 1, California

Office of the President
Magna-Screen, Inc.
9177 Kelvin Avenue
Chatsworth, California 91311

Office of the President
Magnolia Industries, Inc.
Old Iron Ore Road, Box 1926
Spartanburg, South Carolina

Director of Purchases
Malcolm Nicol & Company
39 Utter Avenue
Hawthorne, New Jersey

Director of Purchases
Marathon Oil Corporation
1300 South Fort Street
Detroit, Michigan 48217

Director of Purchases
Southern Dyestuff Company
Div. Martin Marietta Company
P. O. Box 10098
Charlotte, North Carolina

Office of the President
Master Etching Machine Company
Railroad Ave. & Mathers Road
Ambler, Pa. 19002

Director of Purchases
Matheson, Coleman & Bell
2909 Highland Avenue
Norwood, Ohio 45212

Office of the President
May Construction Company
Hardenbergh Road
Canaan, Connecticut

Director of Purchases
Mead Container
1400 South Western Pkwy.
P. O. Box 503
Louisville, Kentucky

Director of Purchases
Mead Corporation
Chillicothe Mills
8th and Hickory Streets
Chillicothe, Ohio 45601

Director of Purchases
Midland Division
Dexter Corporation
East Water Street
Waukegan, Illinois 60085

Director of Purchases
Millmaster Chemical Company
Div., Millmaster Onyx Corp.
99 Park Avenue
New York 16, New York

Office of the President
Minerals Research
318 West Colorado
Glendale, California 91204

Director of Purchases
Minnesota, Mining & Mfg. Co.
2501 Hudson Road
St. Paul, Minnesota 55101

Director of Purchases
Minnesota, Mining & Mfg. Co.
Irvington Division
P. O. Box 108
Freehold, New Jersey

MCL000024

Director of Purchases
Mobil Oil Company
Rochester Plant
P. O. Box 349
Rochester, Pa. 15074

Director of Purchases
Agricultural Chemical Company
Div. Mobil Chemical Company
Box 1136, 401 East Main Street
Richmond 8, Virginia

Director of Purchases
Mobil Chemical Company
Research & Development Dept.
P. O. Box 631
Ashland, Virginia 23005

Std. T Chemical Co., Inc.
Std. TOCH Chemical Division
2600 Federal Street
Chicago 16, Illinois

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Moorhead Machinery & Boiler Co.
3477 University Avenue
Minneapolis, Minnesota 55418

Director of Purchases
Mrs. Smith's Colonial Baking Co.
8210 Colonial Street
Silver Springs, Maryland

Mrs. Paul's Kitchens
5830 Henry Avenue
Philadelphia, Pa. 19128
Attn: Director of Purchases

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The M. W. Kellogg Company
711 Third Avenue
New York, New York

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M. M. Isabella, Inc.
1401 West Badger
Madison, Wisconsin 53713

Director of Purchases
National By Products
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Director of Purchases
National Tea Company
1000 North Crosby Street
Box 6970A
Chicago, Illinois

Director of Purchases
National Can Company
3217 West 47th Place
Chicago 32, Illinois

Director of Purchases
National Floor Products Co., Inc.
P. O. Box 354
Florence, Alabama

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U.S. Industrial Chemical Company
Div., National Distillers & Chem.
99 Park Avenue
New York, New York

Director of Purchases
National Felt Company
180 Pleasant Street
East Hampton, Mass.

Director of Purchases
Baroid Division
National Lead Company
P. O. Box 1675
Houston, Texas 77001

Director of Purchases
National Lead Company
Atlantic Branch
P. O. Box 631
1050 State Street
Perth Amboy, New Jersey

Director of Purchases
National Lead Company
Titanium Division
P. O. Box 59
Sayreville Plant
South Amboy, New Jersey

Director of Purchases
National Starch & Chemical Corp.
1735 West Front Street
Plainfield, N. J. 07063

Director of Purchases
Nicolet Industries
P. O. Box 777
Rockdale Road
Hamilton, Ohio

Director of Purchases
Nilek Chemicals, Inc.
P. O. Box 27134
Memphis, Tennessee 38127

Director of Purchases
North American Rockwell Corporation
4300 East Fifth Avenue
Columbus, Ohio 43216

Director of Purchases
Off-Shore Chemicals Sales
& Service Co.
Oil Center Station
P. O. Box 72207
Lafayette, La. 70501

Director of Purchases
Ohio Sealer & Chemical Corp.
3060 East River Road
Dayton 19, Ohio

Director of Purchases
Blockson Chemical Company
Div., Olin Corporation
Joliet, Illinois

Director of Purchases
Olin Corporation
100 McKee Road
Rochester 6, New York

Director of Purchases
Olin Research Center
275 Winchester Avenue
New Haven, Connecticut 06511

MCL000025

Mr. A. Olney
2328 Fairfront Avenue
Santa Ana, California 92707

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Owens Illinois, Inc.
1310 North Westwood Avenue
Toledo 1, Ohio

Director of Purchases
Pacific Power & Light Co.
920 S.W. 6th Avenue
Portland, Oregon 97204

Director of Purchases
Paper Converting & Finishing Co.
1101 South Kilbourn Avenue
Chicago, Illinois

Director of Purchases
Pasadena Hydraulics
Div. of the Rucker Co.
1434 Tyler Avenue
South El Monte, Calif. 91733

Director of Purchases
Pearsall Corporation
Box 108, Route 24
Phillipsburg, N. J. 08865

Director of Purchases
Penwalt Corporation
4655 Biddle Avenue
Wyandotte, Michigan

Director of Purchases
Frito Lay Company
P. O. Box 92660
World Way Center
Los Angeles, California 90009

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Perry Plastics, Inc.
3409 W 14th Street
Erie, Pennsylvania 16505

Director of Purchases
Onyx Chemical Company
Div., Millmaster Onyx Corp.
198 Warren Street
Jersey City 2, New Jersey

Director of Purchases
Owens Corning Fiberglas Corp.
Granville, Ohio

Director of Purchases
Pacific Airmotive Corp.
2940 North Hollywood Way
Burbank, California 91503

Office of the President
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5601 Northeast 14th Street
Ft. Lauderdale, Fla. 33308

Office of the President
Patrick & Company
569 Market Street
San Francisco, California

Director of Purchases
Pelron Corporation
7847 W. 47th Street
McCook, Illinois

Director of Purchases
Selastomer Chicago, Inc.
45 East Green Street
Bensenville, Illinois 60106

Director of Purchases
Petrolite Corporation
Tretolite Division
369 Marshall Avenue
St. Louis, Missouri 63119

Office of the President
Ormet Corporation
P. O. Box 176
Hannibal, Ohio

Director of Purchases
Owens Corning Fiberglas Corp.
Anderson, South Carolina

Director of Purchases
Panelform Corporation
205 East Second Street
Mineola, New York 11501

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Parsons Linoleum & Rug Co.
143 East Main Street
Columbus, Ohio 43215

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C. J. Patterson Company
3947 Broadway
Kansas City, Missouri

Director of Purchases
Penwalt Corporation
Three Penn Center Plaza
Philadelphia, Pa.

Director of Purchases
Selastomer Detroit, Inc.
Sub. of Vare Corporation
30595 West 8 Mile Road
Livonia, Michigan 48152

Director of Purchases
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98 Westport Avenue
Norwalk, Connecticut

Director of Purchases
Pfister Chemical Works, Inc.
Linden Avenue
Ridgefield, New Jersey

mla

MCL000026

Director of Purchases
Chas. Pfizer & Co., Inc.
Groton Plant
Groton, Connecticut

Office of the President
Phalanx Furniture, Inc.
3004 Burns Avenue
Wantagh, New York 11793

Director of Purchases
Phelps Dodge Copper Products Co.
Box 2
Dayton, New Jersey 08810

Director of Purchases
Phillips Petroleum Company
1245 Adams Building
Bartlesville, Oklahoma

Director of Purchases
Pillsbury Company
Terre Haute, Indiana

Director of Purchases
Pima Mining Company
P. O. Box 7187
Tucson, Arizona

Director of Purchases
Pioneer Plastics Corporation
Pionite Road
Auburn, Maine

Director of Purchases
Pioneer Plastics Distributing Corporation
915 Glenwood Avenue
Atlanta, Georgia 30316

Director of Purchases
Pitt-Consol Chemical Co.
191 Doremus Avenue
Newark, New Jersey

Director of Purchases
PPG Industries, Inc.
One Gateway Center
Pittsburgh 22, Pa.

Director of Purchases
PPG Industries, Inc.
Chemical Division
New Martinsville, W. Va.

Director of Purchases
PPG Industries, Inc.
Chemical Division
P. O. Box 4026
Lawrence Drive
Corpus Christi, Texas

Director of Purchases
PPG Industries, Inc.
Coatings & Resins Division
3½ miles E. of U.S. Route 23
Circleville, Ohio

Director of Purchases
PPG Industries, Inc.
Chemical Division
Lake Charles, La. 70601

Director of Purchases
Packaging Corp. of America
2 West Scott Street
Vincennes, Indiana

Director of Purchases
Plastic & Rubber Products Co.
2150 Parco Avenue
Ontario, California 91764

Office of the President
Plastic Tops, Inc.
13281 Merrimen
Livonia, Michigan 48150

Office of the President
Plasticraft Tops, Inc.
1450 Colton Avenue
Colton, California 92324

Director of Purchases
Point of Purchases
Display Lane
Kettering, Ohio

Director of Purchases
Polaroid Corporation
730 Main Street
Cambridge 39, Mass.

Director of Purchases
Polymer Corporation
1257 Fifth Street
Reading, Pennsylvania

Office of the President
Polyrex Company, Inc.
South Columbia St. and R.R.
Woodbury, New Jersey

Director of Purchases
Pratt and Lambert, Inc.
75 Tonawanda Street
Buffalo 7, New York

Director of Purchases
Premix Incorporated
P. O. Box 281
North Kinsville, Ohio 44068

Office of the President
Preservative Paint Company
5410 Airport Way
Seattle 8, Washington

Director of Purchases
Princeton Chemical Research, Inc.
P. O. Box 652
Princeton, New Jersey

Director of Purchases
Process Equipment Engineering Co.
36 Chatham Road
Summit, New Jersey 07901

MCL000027

Director of Purchases
Chas. Pfizer & Co., Inc.
Groton Plant
Groton, Connecticut

Office of the President
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3004 Burns Avenue
Wantagh, New York 11793

Director of Purchases
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Box 2
Dayton, New Jersey 08810

Director of Purchases
Phillips Petroleum Company
1245 Adams Building
Bartlesville, Oklahoma

Director of Purchases
Pillsbury Company
Terre Haute, Indiana

Director of Purchases
Pima Mining Company
P. O. Box 7187
Tucson, Arizona

Director of Purchases
Pioneer Plastics Corporation
Pioneite Road
Auburn, Maine

Director of Purchases
Pioneer Plastics Distributing Corporation
915 Glenwood Avenue
Atlanta, Georgia 30316

Director of Purchases
Pitt-Consol Chemical Co.
191 Doremus Avenue
Newark, New Jersey

Director of Purchases
PPG Industries, Inc.
One Gateway Center
Pittsburgh 22, Pa.

Director of Purchases
PPG Industries, Inc.
Chemical Division
New Martinsville, W. Va.

Director of Purchases
PPG Industries, Inc.
Chemical Division
P. O. Box 4026
Lawrence Drive
Corpus Christi, Texas

Director of Purchases
PPG Industries, Inc.
Coatings & Resins Division
3½ miles S. of U.S. Route 23
Circleville, Ohio

Director of Purchases
PPG Industries, Inc.
Chemical Division
Lake Charles, La. 70601

Director of Purchases
Packaging Corp. of America
2 West Scott Street
Vincennes, Indiana

Director of Purchases
Plastic & Rubber Products Co.
2150 Parco Avenue
Ontario, California 91764

Office of the President
Plastic Tops, Inc.
13281 Merriman
Livonia, Michigan 48150

Office of the President
Plasticraft Tops, Inc.
1450 Colton Avenue
Colton, California 92324

Director of Purchases
Point of Purchases
Display Lane
Kettering, Ohio

Director of Purchases
Polaroid Corporation
730 Main Street
Cambridge 39, Mass.

Director of Purchases
Polymer Corporation
1257 Fifth Street
Reading, Pennsylvania

Office of the President
Polyrex Company, Inc.
South Columbia St. and R.R.
Woodbury, New Jersey

Director of Purchases
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Premix Incorporated
P. O. Box 281
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Office of the President
Preservative Paint Company
5410 Airport Way
Seattle 8, Washington

Director of Purchases
Princeton Chemical Research, Inc.
P. O. Box 652
Princeton, New Jersey

Director of Purchases
Process Equipment Engineering Co.
36 Chatham Road
Summit, New Jersey 07901

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Director of Purchases
Procter and Gamble Company
P. O. Box 599
Cincinnati, Ohio

Director of Purchases
Procter Chemical Co., Inc.
Salisbury, North Carolina

Director of Purchases
Protective Closures Co.
Nokon Division
2207 Elmwood Avenue
Buffalo, New York 14216

Director of Purchases
Purdue University
Lafayette, Indiana

Director of Purchases
Purex Corporation Ltd.
24600 South Main Street
Wilmington, California 90745

Office of the President
Randolph Manufacturing Co.
32 South Main Street
Randolph, Massachusetts

Director of Purchases
Raychem Corporation
300 Constitution Drive
Menlo Park, California 94025

Director of Purchases
Rea Magnet Wire Co., Inc.
East Pontiac Street
Fort Wayne, Indiana

Director of Purchases
Rea Magnet Wire Company, Inc.
Route 6, Concord Road
Lafayette, Indiana

Director of Purchases
Reichhold Chemicals, Inc.
525 North Broadway
White Plains, New York

Director of Purchases
Reichhold Chemicals, Inc.
Varcum Chemical Corp. Div.
P. O. Box 663
Packard Road
Niagara Falls, N.Y. 14302

Director of Purchases
Republic Container Corp.
1561 Hudson Blvd.
Jersey City, New Jersey

Resyn Corporation
1401 West Blancke Street
Linden, New Jersey 07036
Attn: Director of Purchases

Director of Purchases
Riker Laboratories, Div.
Rexall Drug & Chemical Co.
P. O. Box 3743
Terminal Annex
Los Angeles, California 90054

Director of Purchases
Reynolds Metals Company
P. O. Box 500
Massena, New York

Director of Purchases
Reynolds Metals Company
P. O. Box 128
Grottoes, Virginia

Director of Purchases
Reynolds Metals Company
Reynolds Metals Building
Richmond 19, Virginia

Director of Purchases
Rhodia Incorporated
Chipman Division
6200 N.E. St. & Helens Rd.
Portland, Oregon 97210

Office of the President
Ridgway Lithograph Co.
411-156th Avenue, N. E.
Redmond, Washington 98052

Director of Purchases
Riegel Paper Corporation
Frenchtown Road
Milford, New Jersey 08848

Office of the President
River House Co-Op
8900 East Jefferson
Detroit, Michigan 48214

Director of Purchases
Riverside Oil Mill
Marks, Mississippi 38646

Director of Purchases
Riverside Plastics Division
Bischoff Chemical Corporation
220 Miller Road
Hicksville, New York 11801

Director of Purchases
Roberts Consolidated Industries, Inc.
Chemical Division
600 East Evergreen Street
Monrovia, California 91016

Director of Purchases
Robian Research & Development
Corporation
P. O. Box 602
Colton, California

Director of Purchases
Rohm & Haas Company
Independence Hall West
Philadelphia, Pennsylvania

Director of Purchases
Rohr Corporation
Accrued Liabilities Group
H Street, P. O. Box 878
Chula Vista, California

MCL000029

Director of Purchases
Mann Chemical Engineering
& Supply Company
P. O. Box 6318
Bakersfield, California 93306

Director of Purchases
Royal Industries
Engineered Products Division
2040 East Dyer Road
Santa Ana, California 92705

Director of Purchases
Royal Typewriter Co., Inc.
1031 New Britain Avenue
West Hartford, Connecticut

Director of Purchases
Safeway Stores, Inc.
Bakery Division
P. O. Box 1238
San Jose 26, California

Director of Purchases
Safeway Stores, Inc.
Bakery Division
6211 East Slauson
Los Angeles 22, California

Director of Purchases
Sandia Corporation
P. O. Box 5800
Albuquerque, New Mexico

Director of Purchases
Sandoz Pharmaceuticals
Div. of Sandoz, Inc.
P. O. Box 11
Hanover, New Jersey

Office of the President
Schaeffer Manufacturing Co.
102 Barton
St. Louis, Missouri

Director of Purchases
Schenectady Chemicals, Inc.
P. O. Box 1046
Schenectady, New York

Office of the President
Scott Wise Polymers
P. O. Box 958
Crowley, Louisiana

Office of the President
Sea Pass Corporation
1211 South Kingshighway
St. Louis, Missouri 63110

Director of Purchases
De Soto, Inc.
Central Resinblvision
300 State Street
Chicago Heights, Illinois

Director of Purchases
De Soto, Inc.
Illinois Plant
1034 South Kostner Avenue
Chicago, Illinois 60624

Director of Purchases
De Soto, Inc.
P. O. Box 10
Garland, Texas

Director of Purchases
Seed Electronics Corporation
9 Cypress Drive
Burlington, Mass. 01803

Director of Purchases
Serv-Us Bakers of Phoenix
Div. C. J. Patterson Co.
1502 E. Buckeye Road
Phoenix, Arizona

Director of Purchases
Shell Chemical Corporation
P. O. Box 2099
Houston, Texas

Director of Purchases
Shell Oil Company, Inc.
1008 West 6th Street
Los Angeles, California

Director of Purchases
Shell Oil Company
P. O. Box 691
Ventura, California

Director of Purchases
Shell Oil Company, Inc.
Houston Refinery
P. O. Box 2527
Houston, Texas

Director of Purchases
Shell Chemical Company
Plastics and Resins
P. O. Box 2633
Deer Park, Texas 77536

Office of the President
C. E. Shepherd Company
P. O. Box 9445
Houston, Texas 77001

Director of Purchases
Sherwin Williams Company
P. O. Box 6027
Cleveland 1, Ohio

Office of the President
Sierra Engineering Company
123 East Montecito Avenue
Sierra Madre, California

Director of Purchases
Sinclair Petrochemicals Co.
P. O. Box 2411
Houston, Texas 77001

Director of Purchases
Skyline Industries, Inc.
4909 N.E. Parkway
Fort Worth, Texas 76101

Director of Purchases
A. O. Smith Corporation
Smith Plastics Division
2700 West 65th Street
Little Rock, Arkansas 72206

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MCL000030

Director of Purchases
Bee Valley Company
R.F.D.)
Columbia, South Carolina

Director of Purchases
Sou-Tex Chemical Company
P. O. Box 866
Mt. Holly, North Carolina
28120

Director of Purchases
Southern Container Corporation
140 West Industry Court
Deer Park, New York 11729

Director of Purchases
Southwest Forest Industries
13933 E. Freeway Drive
Santa Fe Springs, California
90670

Director of Purchases
Southwest Grease & Oil Co.
19530 South Alameda
Compton, California

Director of Purchases
South Wire Company
Daniels Construction Co.
Hawesville, Kentucky

Director of Purchases
Southwest Potash Corporation
P. O. Box 3
Vicksburg, Mississippi 39180

Director of Purchases
Specialty Papers Company
802 Miami Chapel Road
Dayton, Ohio

Director of Purchases
St. Joe Paper Company
700 Sam Houston Road
Mesquite, Texas 75149

Director of Purchases
Esso Research & Engineering Co.
P. O. Box 4255
Baytown, Texas 77520

Director of Purchases
Chevron Research Company
555 Market Street
San Francisco, California 94210

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Standard Oil Co. of Calif.
605 West Olympic Blvd.
Los Angeles, California

Director of Purchases
Standard Oil Co. of California
225 Bush Street
San Francisco, California

Director of Purchases
Amoco Chemical Corporation
P. O. Box 941
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National Metallizing Division
Foragate Industrial Park
Section 1
Cranbury, New Jersey

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Standard Supply Company
P. O. Box 100
Maysville, Kentucky

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Standard Chemical Products, Inc.
1301 Jefferson Street
Hoboken, New Jersey

Director of Purchases
Amoco Chemical Corporation
130 East Randolph Drive
Chicago 1, Illinois

Director of Purchases
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21010 Outer Loop
Louisville, Kentucky 40219

Director of Purchases
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Clifford Mfg. Co. Div.
Grove Street
Waltham, Massachusetts

Director of Purchases
Stanley Works, Inc.
Stanco Packaging Division
Curtis Street
New Britain, Connecticut

Office of the President

Star Fibers, Inc.

Edgefield, S. C. 29824

Director of Purchases
Stauffer Chemical Company
Richmond Research Lab.
1373 S. 47th Street
Richmond, California

Director of Purchases
Stauffer Chemical Co.
Anderson Chemical Division
3940 Summit Street
Weston, Michigan

Director of Purchases
Stauffer Chemical Company
Campground Road
Louisville, Kentucky

Director of Purchases
Stedfast Rubber Co., Inc.
23 Tupelium Street
Mattapan 26, Massachusetts

Director of Purchases
Stepan Chemical Company
1211 North Olive Street
Anaheim, California 92801

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Director of Purchases
J. P. Stevens & Co., Inc.
Duncan Plant
Greenville, South Carolina
29602

Director of Purchases
St. Mary Chemical Co., Inc.
P. O. Drawer D
Morgan City, Louisiana 70380

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Stone Container Corporation
Ritchie Division
5801 South Baltimore Avenue
Chicago 17, Illinois

Director of Purchases
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Bakery Division
226 Causeway Street
Boston, Mass. 02114

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Sun Oil Company
1608 Walnut Street
Philadelphia 3, Pa.

Director of Purchases
Sun Oil Company
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518 Market Street
Shreveport, La.

Director of Purchases
Superior Oil Company
P. O. Box 728
Lake Arthur, La. 70549

Office of the President
Systems Printers
8332 Secura Way
Santa Fe Springs, Cal. 90670

Tape Cable Division
Brundy Corporation
15 Linden Park
Rochester, N.Y. 14625
Attn: Director of Purchases

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Tecumseh Products
333 Joseph Street
Marion, Ohio 43302

Director of Purchases
Tenneco Chemicals, Inc.
American Plastics Division
Bainbridge, New York 13733

Director of Purchases
Tennessee Colors Division
Tennessee Chemicals, Inc.
P. O. Box 51
Reading, Pa. 19603

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Terrell Corporation
820 Woburn Street
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Texas Marine & Industrial
Supply Company
8050 Harrisburgh Blvd.
Houston 12, Texas

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6000 Lemmon Avenue
Dallas 9, Texas

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P. O. Box 12465
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800 West Burton Street
High Point, N.C. 27260

Office of the President
Thermolator, Inc.
1523 Igler Avenue
Indianapolis, Indiana 46227

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Thermon Manufacturing Co.
9941 Rowlett
Houston, Texas 77034

Office of the President
Thiele Kaolin Company
Sandersville, Georgia

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Titanium Metals Corporation
P. O. Box 2128
Henderson, Nevada 89015

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Middle Road
Ashtabula, Ohio

Director of Purchases
Topco Laminents
1027 North Monroe
Kansas City, Mo. 64120

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P. O. Box 1467
Brownsville, Texas 78521

Director of Purchases
Trans Plastics
Box 328
Conneaut, Ohio 44030

Director of Purchases
True Temper Corporation
1623 Euclid Avenue
Cleveland, Ohio 44115

Director of Purchases
TRW, Inc.
23555 Euclid Avenue
Cleveland, Ohio 44117

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MCL000032

Director of Purchases
United States Steel Corp.
P. O. Box 247
Pittsburgh, Pa. 15230

Director of Purchases
Lever Brothers Co.
390 Park Avenue
New York 22, New York

Director of Purchases
Union Bag Camp Corp.
Lakeland Plant
P. O. Box 1609
Lakeland, Florida

Director of Purchases
Union Camp Paper Corp.
793 N. Lathrop Avenue
Savannah, Ga. 31401

Director of Purchases
Union Camp Corporation
Container Division
P. O. Box 645
Morristown, Tennessee 37814

Director of Purchases
Union Camp Corporation
Folding Carton & Label Division
P. O. Box 665
Atlanta, Georgia 30301

Director of Purchases
Union Bag Camp Paper Corp.
8300 Valcour
Affton, Mo. 63123

Mr. C. B. Gardner, Loc. 527
Union Carbide Corporation
P. O. Box 8093
South Charleston, W. Va. 25303

Director of Purchases
Union Carbide Corporation
Silicones Division
333 Woodward Avenue at
East Park Drive
Tonawanda, New York

Director of Purchases
Union Carbide Corporation
Chemicals Division
270 Park Avenue
New York 17, New York

Director of Purchases
Union Carbide Corporation
Union Carbide Metals Co. Div.
Marietta, Ohio

Director of Purchases
Union Carbide Nuclear Company
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Director of Purchases
Union Contracting & Materials Co.
11835 Central Park
Chicago, Illinois 60655

Director of Purchases
Union Oil Company
Boston Division
P. O. Box 2007
Milwaukee, Wisconsin 53201

Director of Purchases
Uniroyal Incorporated
Uniroyal Chemical Division
Elm Street
Naugatuck, Connecticut 06770

Director of Purchases
UniRoyal, Inc.
Providence Plant
30 Eagle Street
Providence, Rhode Island

Director of Purchases
UniRoyal, Inc.
1 Market Street
Passaic, New Jersey 07055

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Florida Operations
Div. United Aircraft Corp.
West Palm Beach, Florida

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United Resin Products, Inc.
100 Sutton Street
Brooklyn, New York

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United States Gypsum Company
9306 Sorensen Avenue
P. O. Box 2816
Santa Fe Springs, California

Director of Purchases
United States Gypsum Co.
561 Richmond Terrace
New Brighton, S.I., New York

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Clairton Works
Clairton, Pennsylvania

Director of Purchases
Bostrum Corporation
133 West Oregon Street
Milwaukee, Wisconsin 53204

Director of Purchases
Upjohn Company
Polymer Chemicals Division
P. O. Box 665
La Porte, Texas

Director of Purchases
Supply Officer
Naval Powder Factory
Indian Head, Maryland

Director of Purchases
Gin C USN Comm. Store
U. S. Naval Air Depot
Crane, Indiana

Director of Purchases
U. S. Corrugated Fibre Box Co.
2900 North Franklin Road
Indianapolis, Indiana 46219

MCL000033

Director of Purchases
United States Novipdne
865 North Orleans
Chicago, Illinois 60610

Director of Purchases
Vacuum Industries, Inc.
54 Linden Street
Somerville, Massachusetts

Director of Purchases
Van Waters & Rogers, Inc.
P. O. Box 6176 B
Albuquerque, New Mexico

Director of Purchases
Van Waters & Rogers
4707 Alpha Road
P. O. Box 34749
Dallas, Texas 75234

Office of the President
Van Dyk and Company
Main and Williams Streets
Belleville 9, New Jersey

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Van Dorn Plastic Machinery Co.
P. O. Box 6936
Cleveland, Ohio

Director of Purchases
Vapor Corporation
6422 Howard Street
Niles, Illinois 60648

Director of Purchases
Vasco Metals Corporation
Head Division
901 South Richland Avenue
York, Pennsylvania 17405

Director of Purchases
Velsicol Chemical Corporation
347 East Ohio Street
Chicago 11, Illinois

Victor Division
Dana Corporation
P. O. Box 1333
Chicago, Illinois 60690
Attn: Director of Purchases

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Vinyl Maid, Inc.
388 Union Street
West Springfield, Mass.

Director of Purchases
Westvaco Corporation
299 Park Avenue
New York, New York 10017

Director of Purchases
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Audobon Road
Wakefield, Mass. 01880

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132 Beckwith Street
Paterson, New Jersey

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Harchem Division
Box 178
Newark 1, New Jersey

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Wamsutta Electronics, Inc.
51 Hollen Street
Framingham, Mass.

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7541 E. Rosecrans Avenue
Paramount, California 90723

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Fourth Avenue & North 13th
East Orange, New Jersey

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600 West Parker Street
Waterloo, Iowa 50703

Director of Purchases
Watson Flour Company
57-01 32nd Avenue
Woodside, New York 11377

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26 S. Brooke Street
Fond Du Lac, Wisconsin 54935

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10th & G Streets
Millville, New Jersey

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417-427 South Fourth Street
St. Joseph, Missouri

Director of Purchases
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Westchester Plastics Division
233 Broadway
New York, New York 10007

Director of Purchases
Western Electric Company
P. O. Box 1111
Shreveport, Louisiana 71102

Director of Purchases
Westinghouse Electric Corporation
23rd and Cotton Road
Muncie, Indiana

Director of Purchases
Westinghouse Electric Corporation
Vicksburg, Mississippi

MCL000034

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Pulp & Paper Division
Longview, Washington

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Whittaker Corporation
P. O. Box 2325
Research & Development Div.
Van Nuys, California 91404

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3300 Pennsylvania Drive
Landover, Maryland 20785

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New York, New York 10017

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Chicago, Illinois 60609

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Webster Plant
Rochester, New York 14560

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National Bearing Division
P. O. Box 459
Meadville, Pennsylvania

Director of Purchases
Abex Corporation
Chemical Department
Mahwah, New Jersey

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Abex Corporation
Dennison Division
1160 Dublin Road
Columbus, Ohio 43216

Office of the President
Acme Making Company
Route 1
Jeanville, Indiana

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P. O. Box 398
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2980 West Green Tree Road
Milwaukee, Wisconsin

Office of the President
Action Manufacturing Co.
4507 Bermuda Street
Philadelphia, Pa. 19124

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24141 Ann Arbor Trail
Dearborn Heights, Michigan

Office of the President
Advance Pressure Castings Corp.
276 Highway 53
Denville, New Jersey 07834

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Aeroquip Corporation
Industrial Division
Van Wert, Ohio 45691

Director of Purchases
Aero Titanium Products
6510 Federal Blvd.
Lemon Grove, California 92045

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Air Equipment & Drilling, Inc.
P. O. Box 1664
Bakersfield, Cal. 93302

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Airpath Instrument Company
13150 Gist Road
Bridgeton, Missouri 63042

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Air Products and Chemicals
P. O. Box 538
Allentown, Pa. 18105

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Alabama Oxygen Co.
P. O. Box 1108
Birmingham, Alabama

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Alan Wood Steel Company
Steel Works
Conshohocken, Pa.

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Alcan Aluminum Corporation
P. O. Box 28
Oswego, New York 13126

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Alcoa Castings Company
Pierson Avenue
Edison, New Jersey 08817

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Allegheny Ludlum Steel Corporation
Box F
Brackenridge, Pa.

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Allied Chemical Company
Fibers Division
P. O. Box 1688
Columbia, S. C. 29202

Director of Purchases
Allied Machine & Engrg. Co.
401 S. Delaney Road
Owosso, Michigan 48867

Director of Purchases
Allis Chalmers Mfg. Co.
631 Cottage
Independence, Mo.

Director of Purchases
Allis Chalmers Mfg. Co.
1126 South 70th Street
Milwaukee 1, Wisconsin

Office of the President
Louis Allis Company
27 East Stewart Street
Milwaukee 7, Wisconsin

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Alpha Industries, Inc.
615 Center Avenue
Logansport, Indiana 46947

Director of Purchases
Alton Box Board Company
Paperboard Division
P. O. Box 150
Jacksonville, Fla. 32201

Director of Purchases
Aluminum Company of America
1501 Alcoa Building
Pittsburgh, Pennsylvania

Director of Purchases
Aluminum Forge Co. Div.
Altamil Corporation
502 East Alton Street
Santa Ana, California 92707

Director of Purchases
Aluminum Die Casting Co.
3462 San Fernando Road
Los Angeles, California 90065

Director of Purchases
American Potash & Chemical Corp.
Highway 45
Hamilton, Mississippi

Director of Purchases
Amax Specialty Metals
Box 1748
Parkersburg, W. Va. 26101

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Ambrit Industries
1288 Los Angeles Street
Glendale, California

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Organic Chemicals Division
Bound Brook, New Jersey

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Federated Metals Division
1901 Army Street
San Francisco, California

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Nassau Smelting & Refining Co.
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Western Electric Company, Inc.
2525 Shadeland Avenue
Indianapolis, Indiana 46206

Director of Purchases
Western Electric Company
777 North Blue Parkway
Lees Summit, Missouri 64063

Director of Purchases
Western Electric Company
Box 14000
West Omaha Station
Omaha, Nebraska 68114

Director of Purchases
American Aluminum, Inc.
219 Fifth Street
West Des Moines, Iowa 50265

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American Bosch Division
Ambac Industries, Inc.
3664 Main Street
Springfield, Mass. 01107

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Highway 22
Union, New Jersey

Director of Purchases
American Portable Irrigation Co.
1300 Bethel Drive
P. O. Box 3097
Eugene, Oregon 97402

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American Monorail Company
13247 Northrup Way
Bellevue, Washington 98004

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American Chain &Cable Co.
Mansaver Division
1110 East Princess Street
York, Pennsylvania 17405

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American Gilsonite Company
P. O. Box 900
Grand Junction, Colorado

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Office of the President
American Lacquer & Solvents Co.
1540 West Wightwood Court
Addison, Illinois 60101

Director of Purchases
American Smelting & Refining Co.
Glover, Missouri

Director of Purchases
Amerock Corporation
4000 Auburn Street
Rockford, Illinois

Director of Purchases
American Smelting & Refining Co.
Baltimore Refinery
Highland & Eastbourne Avenue
Baltimore, Maryland 21224

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6200 East Broad Street
Columbus 13, Ohio

Director of Purchases
American Steel Foundry Co.
1705

Director of Purchases
American Steel Foundries
1700 Walnut Street
Granite City, Illinois 62041

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Anaconda Aluminum Company
North Thirteenth Street
Terre Haute, Indiana

Director of Purchases
Anaconda Company
P. O. Box 1963
Butte, Montana

Director of Purchases
Anaconda Company
625 Broadway
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Hocking Division
Drawer 405
Lancaster, Ohio

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Ansen Automotive
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Argonne Laboratory
9700 S. Cass
Argonne, Illinois

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Armco Steel Corporation
703 Curtis Street
Middletown, Ohio

Director of Purchases
Armco Steel Corporation
Steel Division
P. O. Box 1367
Houston, Texas 77001

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U. S. Agri-Chemicals
P. O. Box 1685
Atlanta, Georgia 30501

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Arnold Air Drilling Service, Inc.
P. O. Box 727
Fort Smith, Arkansas

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Arnold Engineering Company
1551 East Orangethorpe Ave.
Fullerton, California 92631

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Arnold AFB Station, Tennessee

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411 Prospect
Webster City, Iowa

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Arrow Diecasting Company
4031 Goodwin Avenue
Los Angeles, California

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3135 Berea Road
Cleveland 11, Ohio

Office of the President
Arrowhead Brass Products
5142 Alhambra Avenue
Los Angeles 32, California

Office of the President
Art Specialty Company
3720 North Milwaukee
Chicago, Illinois 60641

Director of Purchases
Ashland Chemical Company
Carbon Black Division
P. O. Box 1503
Houston, Texas 77001

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Director of Purchases
Ashland Chemical Co., Div.
Ashland Oil & Refining Co.
142nd St. Paxton Avenue
Calumet City, Illinois 60406

Mr. Jenkins
Atlantic Richfield Company
4500 West Mockingbird Lane
Dallas, Texas 75205

Director of Purchases
Atlas Fluid Components, Inc.
1772 State Road
P. O. Box 1013
Cuyahoga Falls, Ohio 44223

Director of Purchases
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2505 Beaufait Avenue
Detroit 7, Michigan

Office of the President
Atlas Die Casting Co.
362 North Kelly Avenue
Germantown, Ohio 45327

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Aviation Fluids Service Co.
2617 Poe Avenue
Overland, Missouri 63114

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Highway 69 West
Mount Vernon, Indiana

Director of Purchases
Babcock and Wilcox Company
Boiler Division
Barberton, Ohio

Director of Purchases
Babcock and Wilcox Co.
Tubular Products Division
P. O. Box 401
Beaver Falls, Pennsylvania

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Badger Die Casting Corporation
201 West Oklahoma Avenue
Milwaukee, Wisconsin 53207

Director of Purchases
Ball Brothers Company
Route No. 59A
Mundelein, Illinois

Director of Purchases
Ball Brothers Company
1856 Hendersonville Road
Asheville, North Carolina

Director of Purchases
Ball Brothers Company
Muncie, Indiana

Office of the President
Ballman Engineering Company
601 International Avenue
Washington, Missouri 63090

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Barber-Colman Company
1300 Rock Street
Fort Smith, Arkansas

Director of Purchases
Bardahl Oil Company
5635 Natural Bridge Road
St. Louis, Missouri 63120

Director of Purchases
Bardahl Lubricants
8 Bardahl Way
Norwood, Massachusetts 02062

Office of the President
Barnes Products, Inc.
14140 Aetna Street
Van Nuys, California 19401

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N & Luzerne Streets
Philadelphia, Pennsylvania

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1325 East 168th Street
Cleveland 10, Ohio

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Box 144
North Tonawanda, New York 14121

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20171 West Jefferson
River Rouge, Michigan 48128

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Box 12234
Research Triangle Park,
North Carolina 27709

Director of Purchases
Beaunit Mills, Inc.
American Bemberg Div.
P. O. Box 511
Elizabethton, Tennessee

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415 S. Kilpatrick Avenue
Chicago, Illinois 60644

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Chicago, Illinois

Director of Purchases
Bellows Valair
1150 Newark Road
Zanesville, Ohio 43701

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Director of Purchases
Bel Ray Co., Inc.
Farmingdale, New Jersey

Director of Purchases
Beiridge Oil Company
[illegible] West 4th Street
Los Angeles, California 90017

Director of Purchases
Bendix Corporation
Scientific Instruments &
Equipment Division
1775 Mt. Read Blvd.
Rochester, New York 14603

Director of Purchases
Bendix Corporation
Brake & Steering Division
401 Bendix Drive
South Bend, Indiana 46620

Director of Purchases
Bendix Corporation
Scintilla Magneto Division
Sidney, New York

Director of Purchases
Bendix Corporation
Utica Division
211 Seward Avenue
Utica, New York

Director of Purchases
Benson Chemical Corporation
2250 First Avenue South
Seattle, Washington 98134

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Subsidiary Companies
701 East Third Street
Bethlehem, Pennsylvania

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Black & Decker Mfg. Co.
Fountain Avenue
Lancaster, Pennsylvania

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Black & Clawson, Inc.
Dilts Division
Fulton, New York 13069

Director of Purchases
Black Sivalls & Bryson
Safety Systems Division
7455 East 46th Street
Tulsa, Oklahoma 74145

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Blackwell Zinc Company
Blackwell, Oklahoma

Director of Purchases
Blake Marine Corporation
12 Connybrook Road
Montvale, New Jersey 07645

Director of Purchases
Blaw Knox Company
Farmers Bank Building
Pittsburgh, Pennsylvania

Director of Purchases
Boeing Company
Transport Division
P. O. Box 707
Renton, Washington

Director of Purchases
Boeing Company
Aerospace Division
P. O. Box 3999
Seattle, Washington 98124

Director of Purchases
Boeing Company
Commercial Airplane Division
P. O. Box 3707
Seattle, Washington 98124

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Div. Universal American Corp.
Lafayette Building
Detroit, Michigan 48226

Director of Purchases
Borden Company
Borden Chem. Co. Div.
P. O. Box 27
Illiopolis, Illinois

Director of Purchases
Borg Warner Corporation
York Division
P. O. Box 1592
York, Pa. 17405

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Bossert Manufacturing Corp.
4002 Oswego Street
Utica, New York

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Charlotte, North Carolina

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Briggs & Stratton
Milwaukee 1, Wisconsin

Director of Purchases
Briggs Weavers
P. O. Box 9409
Houston, Texas 77011

Director of Purchases
Brown Company
Berlin, New Hampshire

Director of Purchases
Brown Industries, Inc.
Sub. of Sterling Foundry Co.
1737 Camp Street
Sandusky, Ohio 44870

Director of Purchases
Brunswick Corporation
1700 Hoosier
Muskegon, Michigan

MCL000039

Director of Purchases
Brush Beryllium Co.
17876 St. Clair Avenue
Cleveland, Ohio 44110

Director of Purchases
Buoyrus-Erie Company
P. O. Box 56
South Milwaukee, Wis. 53172

Director of Purchases
Budd Company
12141 Charlevoix Avenue
Detroit, Michigan

Director of Purchases
Budd Company
2450 Hunting Park Avenue
Philadelphia

Director of Purchases
Budd Company
2450 Hunting Park Avenue
Philadelphia 32, Pa.

Director of Purchases
Cabot Corporation
Box 1101
Pampa, Texas

Director of Purchases
Cadillac Malleable Iron Co.
Cadillac, Michigan 49601

Director of Purchases
Calhoun Foundry Co., Inc.
South Clay Street
Homer, Michigan 49245

Director of Purchases
Univ. of Southern California
Engineering Center
935 West 37th Street
Los Angeles 7, California

Director of Purchases
Calumet Steel Division
Borg-Warner Corporation
Box 217
Chicago Heights, Ill. 60411

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Office of the President
Capital Wire & Cable Corp.
910 10th Street
Plano, Texas

Director of Purchases
Carborundum Company
Process Equipment Div.
31935 Aurora Road
Solon, Ohio 44139

Director of Purchases
Carborundum Company
Refractories Division
Perth Amboy, New Jersey

Director of Purchases
Cargill, Inc.
Cargill Building
Minneapolis, Minn. 55402

Director of Purchases
Carpenter Steel Co.
R & D Laboratory
Reading, Pa. 19602

Director of Purchases
Carpenter Technology Corp.
P. O. Box 662
Reading, Pa. 19603

Director of Purchases
Carrier Air Conditioning Co.
Thompson Road
Syracuse, New York 13210

Director of Purchases
Carter Carburetor Corp.
2840 South Spring Ave.
St. Louis, Missouri

Director of Purchases
Cast Forge Company
2440 W. Highland Road
Howell, Michigan 48843

Director of Purchases
Caterpillar Tractor Company
Peoria 3, Illinois

Director of Purchases
Central Die Casting & Mfg. Co.
2935 West 47th St.
Chicago, Illinois

Director of Purchases
Amsco Solvents & Chemicals Co.
4619 Reading Road
Cincinnati 29, Ohio

Director of Purchases
Buffalo Solvents & Chem. Corp.
P. O. Box 73, Station B
Buffalo 7, New York

Director of Purchases
Central Solvents & Chemicals Company
13900 Carmenita Road
Santa Fe Springs, Calif. 90670

Director of Purchases
Central Solvents & Chemicals Company
2540 W. Flournoy Street
Chicago, Illinois

Director of Purchases
Dixie Solvents & Chemicals Company
Appleton Lane
Louisville, Kentucky

Director of Purchases
Missouri Solvents & Chemical Company
419 De Soto Avenue
St. Louis, Missouri

Director of Purchases
Ohio Solvents & Chemical Company
3520 West 140th Street
Cleveland, Ohio

Director of Purchases
Texas Solvents & Chemicals Company
8501 Market Street
Houston 15, Texas

Director of Purchases
Western Eaton Solvents & Chemical Company
13395 Huron River Drive
Romulus, Michigan 48174

Director of Purchases
Wisconsin Solvents & Chemical Corporation
1719 So. 83rd Street
Milwaukee, Wisconsin

Office of the President
Central Transformer Corp.
P. O. Box 6608
Pine Bluff, Ark. 71601

Director of Purchases
Century Electric Company
1806 Pine Street
St. Louis 3, Missouri

Office of the President
Char-Lynn Company
15151 Highway Five
Eden Prairie, Minn. 55345

Director of Purchases
Charmin Paper Products Co.
Fox River Converting
Green Bay, Wisconsin

Office of the President
Chemicals, Inc.
P. O. Box 1050
Bartow, Florida

Office of the President
Chemola Mfg. Co.
4750 Clinton Drive
Houston, Texas

Office of the President
Chem-Trend, Inc.
Howell, Michigan

Director of Purchases
Chicago Bridge & Iron Co.
901 West 22nd Street
Oak Brook, Illinois 60523

MCL000041

Director of Purchases
Chrysler Corporation
Indianapolis Foundry
1100 South Tibb Avenue
Indianapolis, Indiana

Office of the President
Cincinnati, Inc.
P. O. Box 111
Cincinnati, Ohio 45211

Director of Purchases
Cincinnati Milling Machine Co.
Products Division
Marburg & South Sts.
Cincinnati 9, Ohio

Director of Purchases
Cities Service Gas Co.
P. O. Box 25128
Oklahoma City, Okla. 73125

Director of Purchases
Cities Service
Research & Development Co.
Drawer 7
Cranbury, N. J. 08512

Director of Purchases
Cities Service Oil Co.
Purchasing Dept.
P. O. Box 245
Tulsa, Oklahoma 74102

Director of Purchases
Cities Service Oil Co.
Lake Charles Operations
P. O. Box 1562
Lake Charles, La.

Director of Purchases
Tennessee Corporation Div.
U. S. Phosphoric Products
P. O. Box 3269
Tampa 1, Florida

Director of Purchases
City of Salem Health Dept.
P. O. Box 266
Salem, Mass.

Director of Purchases
City of Lakeland
Larsen Powder Plant
Lakeland, Florida

Office of the President
Cleveland Automatic Machine Co.
4101 Spring Grove Avenue
Cincinnati, Ohio 45223

Office of the President
Clover Casting Company
P. O. Box 565
Redwood Highway South
Cloverdale, Calif. 95425

Office of the President

Collins Radio Company

Cedar Rapids, Iowa

Office of the President
Colorado Interstate Gas
Company
P. O. Box 1087
Colorado Springs, Colo.

Office of the President
Atlantic Seaboard Corp.
P. O. Drawer 1273
Charleston 25, West Va.

Office of the President
Connolly-Herf
10785 Hamburg Road
Hamburg, Michigan 48139

Office of the President
Consolidated Aluminum Corp.
1100 Richmond
Jackson, Tennessee

Office of the President
Consolidated Edison Co.
of N. Y. Inc.
4 Irving Place
New York 3, New York

Director of Purchases
Constellation Steel
Mill Equipment
200 West North Bend Rd.
Cincinnati, Ohio 45216

Office of the President
Consumers Power Company
9940 Napier
Northville, Michigan

Director of Purchases
Continental Can Co.
2700 James Savage Road
Midland, Michigan 48642

Office of the President
Continental-Emsco Co.
P. O. Box 248
Garland, Texas 75041

Director of Purchases
Continental Can Co., Inc.
Bond Crown & Cork Div.
16th and Locust St.
Wilmington, Delaware

Director of Purchases
Continental Oil Co.
P. O. Drawer 1267
Ponca City, Oklahoma

Director of Purchases
Continental Steel Corp.
South Plant
Kokomo, Indiana

Office of the President
Cornwall Metal Works
Box 32
Cornwall, Pa. 17016

Office of the President
L. H. Cox Mfg. Co., Inc.
P. O. Box 476
Santa Ana, California

Office of the President
Crane Company
4100 S. Kedzie Avenue
Chicago, Illinois 60632

Office of the President
Crawford & Doherty Foundry Co.
4604 S. E. 17th Avenue
Portland, Oregon 97202

Director of Purchases
Crown Zellerbach Corp.
1 Bush Street
San Francisco 19, Calif.

MCL000042

Director of Purchases
Colt Industries
Crucible Magnetics Div.
P. O. Box 100
Elizabethtown, Ky. 42701

Director of Purchases
Crucible Steel Co. of America
Sanderson Halcomb Works
Syracuse, New York

Office of the President
W. F. Curlee Mfg. Co.
P. O. Box 776
Houston, Texas

Office of the President
Cuyahoga Industries, Inc.
17920 Waterloo Road
Cleveland, Ohio 44119

Office of the President
Empire Reeves Steel
Mansfield, Ohio

Office of the President
Dana Company
2519 Robbins Ct.
Port Huron, Michigan 48060

Director of Purchases
Daisy Haddon Dividon
Victor Comptometer Corp.
Rogers, Arkansas 72756

Office of the President
Dallas Die Casting Co.
334 Rock Island St.
Dallas, Texas

Office of the President
Dalton Industries
Cushing, Oklahoma

Office of the President
Damon Engineering, Inc.
115 Fourth Avenue
Needham Heights, Mass. 02194

Director of Purchases
Dana Corporation
4100 Bennett Road
Toledo 1, Ohio

Director of Purchases
Dana Corporation
Perfect Circle Sleeve Div.
Route 35 West
P. O. Box 990
Richmond, Indiana 47374

Office of the President
Don V. Davis Company
4200 North Second St.
St. Louis 7, Missouri

Director of Purchases
J. H. Day Company
Cleveland Automatic Machine Co. Division
4932 Beech
Cincinnati 12, Ohio

Director of Purchases
Dayton Malleable Iron Co.
3931 S. Dixie Highway
Dayton, Ohio 45439

Director of Purchases
D H R Foundry Division
4000 Detrich St.
P. O. Box 1021
Dayton, Ohio 45401

Office of the President
Deering-Milliken, Inc.
P. O. Box 1838
Spartanburg, S. C. 29301

Office of the President
De Laval Turbine Company
P. O. Box 251
Trenton, N. J. 08602

Office of the President
Delmar Die Casting
17250 S. Main
Gardena, Calif. 90247

Director of Purchases
Delta Airlines
Atlantic Municipal Airport
Atlanta, Georgia

Office of the President
Delta Die Casting Company
217 Fay Avenue
Addison, Illinois 60101

Mr. Jim Dempsey
Boars Head Inn
Edmam Forest
Charlottesville, Va. 22901

Director of Purchases
Detroit Steel Corp.
Portsmouth Division
Portsmouth, Ohio

Office of the President
Diamond Metal Alloys
P. O. Box 2119
Houston, Texas 77001

Director of Purchases
Diamond Shamrock Corpo.
P. O. Box 631
Amarillo, Texas

Director of Purchases
Dibert Bancroft & Ross Co. Ltd.
P. O. Box 836
Amite, La. 70422

Office of the President
Diecast Manufacturing
10148 Rush St.
El Monte, California

Office of the President
Diecast Corporation
415 Cleveland Avenue
Sheboygan Falls, Wisconsin

Office of the President
Dix Line Casket Hardware Co., Inc.
Galva, Illinois

Office of the President
Dollar Electric Company
P. O. Box 490
Royal Oak, Mich. 48068

MCL000043

Office of the President
Double A Products Co.
Manchester, Michigan

Director of Purchases
Dow Chemical Co.
P. O. Box 1498
Midland, Michigan

Director of Purchases
Dow Chemical Co.
P. O. Box 752
Russellville, Ark. 72801

Director of Purchases
Dresser Industries
250 East Main St.
Stratford, Conn. 06497

Director of Purchases
R. O. Du Pont de Nemours & Co., Inc.
Room 6074
Du Pont Building
Wilmington, Delaware

Office of the President
Dynamic Forge Corporation
Oxford, Nebraska

Director of Purchases
Eaton Yale & Towne, Inc.
Eaton Valve Division
463 N. 20th St.
Battle Creek, Michigan

Director of Purchases
Eaton Yale & Towne, Inc.
Spring Division
9771 French Road
Detroit, Michigan 48213

Director of Purchases
El Paso Natural Gas Co.
P. O. Box 1492
El Paso, Texas

Office of the President
Electrolux Corporation
51 Forest Avenue
Old Greenwich, Conn.

Director of Purchases
Dow Chemical Company
305 Crenshaw Blvd.
Torrance, California

Director of Purchases
Dow Chemical Co.
P. O. Box 6417
Cleveland 1, Ohio

Duplicate
Office of the President
Interlake Steel Company
135th & Perry Avenue
Chicago, Illinois 60627

Director of Purchases
Dresser Magcobar Div.
Dresser Industries Inc.
P. O. Box 6504
Houston, Texas 77005

Office of the President
Duquesne Light Co.
435 Sixth Avenue
Pittsburgh, Pa.

Director of Purchases
E. F. Houghton & Co.
303 West Lehigh Avenue
Philadelphia 33, Pa.

Director of Purchases
Eaton Yale & Towne, Inc.
Saginaw Division
1000 Hush Street
Saginaw, Michigan 48601

Director of Purchases
Eaton Yale & Towne, Inc.
Eaton Valve Kearney Plant
East Lincoln Highway
Kearney, Nebraska 68847

Office of the President
Elano Corporation
2455 Dayton Xenia Road
Xenia, Ohio 45385

Office of the President
Elkton Diecasting Co.
Elkton, Kentucky

Director of Purchases
Dow Chemical Co.
P. O. Box 888
Golden, Colorado 80401

Director of Purchases
Dow Chemical Co.
Madison Division
Madison, Illinois 62060

Office of the President
Dresser Industries
250 East Main St.
Stratford, Conn. 06497

Office of the President
Duluth Missabe & Iron Range Ry. Co.
Wolvin Building
Duluth, Minnesota

Office of the President
Dutton-Lainson Co.
1601 W. Second St.
Hastings, Nebraska 68901

Director of Purchases
Eastman Kodak Co.
Kodak Park Works
343 State Street
Rochester 4, New York

Director of Purchases
Eaton Yale & Towne, Inc.
Yale Hoisting Equip. Div.
Forrest City, Arkansas

Office of the President
Edins Walcher Oil Company
Box 551
Midland, Texas

Director of Purchases
Electrical Products Div.,
Midland Ross
2210 S. David Street
Los Angeles, Calif. 90022

Mr. R. E. Petering
Emerson Electric Mfg. Co.
Turret Division
8100 Florissant Avenue
St. Louis 2, Missouri

MCL000044

Director of Purchases
Emerson Electric Co.
4700 21st Street
Racine, Wisconsin

Office of the President
Empire Die Casting Co.
19800 Miles Avenue
Cleveland, Ohio 44128

Office of the President
Erie Mining Company
P. O. Box 147
Hoyt Lakes, Minnesota

Esco Elevators, Inc.
P. O. Box 445
Fort Worth, Texas
76101
Attn: Office of the President

Director of Purchases
Essex International, Inc.
P. O. Box 278
618 Fourth Street
Three Rivers, Mich. 49193

Office of the President
Excello Corporation
945 East Eater Street
Greenville, Ohio

Director of Purchases
Exide Power Systems Div.
ESB, Inc.
P. O. Box 5723
Philadelphia, Pa. 19120

Office of the President
Fan Steel, Inc.
Rt. 5, Box 238
Muskogee, Oklahoma 74401

Office of the President
Farrell Cheek Steel Co.
710 Lane Street
Sandusky, Ohio 44870

Director of Purchases
Fasson Prod. Div.
Avery Adhesives
250 Chester Street
Painesville, Ohio

Office of the President
Fate-Root-Heath Company
Plymouth, Ohio 44865

Director of Purchases
Federal Mogul Div.
Federal Mogul Corp.
451 County Line Rd.
Mooresville, Indiana 46158

Director of Purchases
Federation Chemicals Ltd.
C/O W. R. Grace & Co.
Agricultural Prod. Div.
P. O. Box 27147
Memphis, Tennessee

Office of the President
Federal Screws Works
3401 Martin Street
Detroit, Michigan

Office of the President
Ferrous Dye Casting Corp.
206 Main Street
Manasquan, N. J. 08736

Office of the President
Fiberite Corporation
516 West Fourth Street
Winona, Minnesota

Office of the President
Findett Service Company
R. R. 1
Box 120
St. Charles, Missouri

duplicate
Director of Purchases
General Motors Corp.
Fisher Body Division
2525 West 4th St.
Ontario, Ohio 44906

Office of the President
Florida Steel Corp.
P. O. Box 3321
Tampa, Florida 33601

Director of Purchases
Foote Mineral Company
Kemoo Operation
Commercial Alley
Keokuk, Iowa 52632

Director of Purchases
Ford Motor Company
Box 456
Dearborn, Michigan

Director of Purchases
Ford Motor Company
P. O. Box 1355
Nashville, Tennessee

Director of Purchases
Ford Motor Company
Box 364

Director of Purchases
Ford Motor Company
Engineering & Research
P. O. Box 204
Dearborn, Michigan 48121

Director of Purchases
Ford Motor Company
Sheffield Plant
P. O. Box 224
Sheffield, Ala. 35661

Director of Purchases
Ford Motor Company
Steel Division
P. O. Box 538
Dearborn, Michigan 48121

Director of Purchases
Ford Motor Company
P. O. Box 118
Dearborn, Michigan 48121

Director of Purchases
Ford Motor Company
P. O. Box 1965
Buffalo, New York 14219

Director of Purchases
Formex Company Div.
Huyck Corporation
Snapps Ferry Road
Greenville, Tenn. 37743

Office of the President
Freeport Brick Company
Drawer P
Freeport, Pa. 16229

MCL000045

Office of the President
J. L. French Corporation
3101 S. Taylor Drive
Sheboygan, Wisconsin

Director of Purchases
General Dynamics Corp.
P. O. Box 748
Fort Worth, Texas 76101

Office of the President
General Castings
14418 South San Pedro
Gardena, California

Office of the President
General Die Casters, Inc.
6212 Akron Peninsula Road
Peninsula, Ohio 44264

Director of Purchases
General Motors Corp.
Delco Battery Operations
Delco Remy Div.
1201 N. Magnolia
Anaheim, California

Director of Purchases
General Motors Corp.
Guide Lamp Div.
P. O. Box 1090
Anderson, Indiana

Director of Purchases
General Motors Corp.
Central Foundry Div.
37 Florence Street
Saginaw, Michigan

Director of Purchases
General Motors Corp.
Delco Radio Division
Kokomo, Indiana

Director of Purchases
General Motors Corp.
Delco Remy Division
Anderson, Indiana

Director of Purchases
General Motors Corp.
Chevrolet Gear and Axle
and Forge Division
1840 Holbrook Avenue
Detroit 12, Michigan

Director of Purchases
General Motors Corp.
Tornatedt Division
30007 Van Dyke Avenue
Warren, Michigan 48090

Director of Purchases
General Motors Corp.
Buick Motor Division
Hamilton Avenue
Flint, Michigan

Director of Purchases
General Motors Corp.
Chevrolet Motors Division
Roosevelt Town
Massena, New York 13662

Director of Purchases
General Motors Corp.
Chevrolet Motors Division
Livonia Plant
13000 Rokles Road
Livonia, Michigan 48151

Director of Purchases
General Motors Corp.
Pontiac Motor Division
Box 55
Pontiac, Michigan

Director of Purchases
General Motors Corp.
Saginaw Steering Gear Div.
Saginaw, Michigan

Director of Purchases
General Motors Corp.
Chevrolet-Saginaw
Grey Iron Foundry
10th & Washington
Saginaw, Michigan

Director of Purchases
General Motors Corporation
Central Foundry Division
37 Florence Street

Director of Purchases
General Motors Corp.
New Departure
Hyatt Bearings
Sandusky, Ohio 44871

Director of Purchases
Chevrolet Tonawanda
Forge & Foundry Div.
General Motors
P. O. Box 26, Sta. B
Buffalo 7, New York

Director of Purchases
General Motors Corp.
Chevrolet Buffalo
P. O. Box 972
Buffalo, New York 14240

Director of Purchases
General Motors Corp.
Fisher Body Corp.

Director of Purchases
General Motors Corp.
Fisher Body Co.
140th and Colt Road
Cleveland, Ohio

Director of Purchases
General Motors Corp.
Frigidaire Div.
200 Taylor St.
Dayton, Ohio 45401

Director of Purchases
Aerojet-General Corp.
11711 Woodruff Avenue
Downey, California 90241

Office of the President
General Die Casting Co.
10750 Capitol
Oak Park, Michigan 48237

Director of Purchases
General Electric Co.
4811 Chaffey Access Rd.
Fort Smith, Arkansas

Director of Purchases
General Electric Co.
Aviation Service Operation
Ontario International Airport
Ontario, California

Director of Purchases
General Electric Co.
Ellis St.
New Britain, Conn.

Director of Purchases
Home Laundry Dept.
General Electric Co.
Louisville, Kentucky

MCL000046

Director of Purchases
General Electric Co.
Light Military
Electronic Equipment
901 Broad Street
Utica, New York

Director of Purchases
General Electric Co.
Central Purchasing
Building 501
Cincinnati 15, Ohio

Director of Purchases
General Electric Co.
Coshocton, Ohio

Director of Purchases
General Electric Co.
Service Shops
663 East Highland St.
Allentown, Pa.

Director of Purchases
General Motors Corp.
Chevrolet Bay City Plant
100 Fitzgerald St.
Bay City, Michigan 48706

Director of Purchases
Aerojet
Spot 0

Director of Purchases
Aerojet-General Corp.
P. O. Box 15847
Sacramento, Calif. 95813
duplicate

Office of the President
Gerard Metal Craftsman
151 W. Rosecrans Ave.
Gardena, Calif. 90247

Office of the President
Gerity-Schultz Corp.
1810 Clinton Street
Toledo, Ohio 43607

Office of the President
Giddings & Lewis Machine
Tool Company
142 Doty Street
Fond du Lac, Wisconsin 54935

Office of the President
Gim Metal Products, Inc.
164 Glen Cove Road
Carle Place, N. Y. 11514

Office of the President
Glass City Tool & Die Co.
5202 Enterprise Blvd.
Toledo, Ohio 43612

Office of the President
Glen-Gery Corporation
P. O. Box 1656
East Canton, Ohio

Office of the President
Glenvale Products Div.
Hoover Ball Bearing Co.
P. O. Box 220
Malvern, Ark. 72104

Office of the President
Global Marine Drilling Co.
P. O. Box 123
Grand Isle, La. 70358

Office of the President
Global Supply, Inc.
P. O. Box 1523
Houston, Texas 77001

Office of the President
Globe Imperial Co. Div.
Harsco Corp.
2025 Kishwaukee
Rockford, Illinois

Office of the President
Globe Industries, Inc.
1784 Stanley Avenue
Dayton 4, Ohio

Office of the President
Golden Foundry Company
1615 10th Street
Columbus, Indiana 47201

Director of Purchases
B. F. Goodrich Chemical Co.
P. O. Box 954
Louisville, Kentucky

Director of Purchases
Goodyear Aircraft Co.
Arizona Division
Litchfield Park, Arizona

Director of Purchases
Goodyear Tire & Rubber Co.
Point Pleasant, West Va.

Office of the President
Goulds Pumps, Inc.
Seneca Falls, N. Y. 13148

Office of the President
G P E Controls
240 E. Ontario St.
Chicago 11, Illinois

Office of the President
Grabler Mfg. Co.
6565 Broadway
Cleveland, Ohio 44105

Director of Purchases
W. R. Grace & Co.
Hatco Chem. Division
King George Post Road
Fords, New Jersey 08863

Director of Purchases
W. R. Grace & Co.
Agricultural Products Div.
P. O. Box 277
Memphis, Tenn. 38101

Director of Purchases
W. R. Grace & Co.
Nitrogen Products Div.
147 Jefferson Avenue
Memphis, Tenn.

Office of the President
Grand Steel & Mfg. Co.
1400 West 14 Mile Road
Clawson, Mich. 48017

Director of Purchases
Granite City Steel Co.
Granite City, Illinois

MCL000047

Office of the President
Great Western Chem. Co., Inc.
860 Wharf Street
Richmond, California

Office of the President
Great Lakes Gas Trans. Co.
One Woodward Avenue
Detroit, Michigan 48226

Director of Purchases
Great Lakes Carbon Corp.
P. O. Box 2868
Carondelet Sta.
526 E. Catalina St.

Office of the President
R D Plant
1100 West Front Street
Florence, New Jersey 08518

Director of Purchases
Gulf Oil Corporation
Gulf Building
Post Office Box 1166
Pittsburgh, Pa.

Director of Purchases
Gulf Oil Corporation
P. O.

Director of Purchases
Gulf Oil Corporation
Chemical Department
Orange, Texas 77630

Office of the President
Warren Petro Corporation
P. O. Box 1589
Tulsa, Oklahoma

Office of the President
Gulf States Tube Corp.
P. O. Box 952
Rosenberg, Texas

Office of the President
Hamilton Diecasting Corp.
2020 Jericho Turnpike
New Hyde Park, N. Y. 11401

Office of the President
Hanna Nickle Smelting Co.
Box 325
Riddle, Oregon

Office of the President
Harrison & Harrison
6903 W. 30th Street
Berwyn, Illinois 60402

Office of the President
Harvey Aluminum, Inc.
19200 S. Western Ave.
Torrance, Calif. 90509

Office of the President
Harvey Aluminum Reduction
Division
P. O. Box 711
The Dalles, Oregon

Office of the President
H. L. Harvill Mfg. Co.
24201 Orange Avenue
Perris, California

Director of Purchases
Haughton Elevator Co.
Div. of Reliance Elec. Co.
671 Spencer St.
Toledo, Ohio 43609

Office of the President
Havenly Products Co.
Box 222
St. Clair Shores, Mich.
48080

Office of the President
Helmerich & Payne Int'l.
Utica & 21st St.
Tulsa, Oklahoma 74114

Office of the President
Henry Brick Co., Inc.
P. Office 857
Selma, Alabama 36701

Office of the President
Henry Vogt Machine Co.
10th & Ormsby Street
Louisville, Kentucky

Office of the President
Hercules, Inc.
Radford Arsenal
Radford, Virginia

Office of the President
Herman Pneumatic Machine Co.
West New Castle Street
Zellinople, Pa. 16063

Office of the President
Hesik Co., Inc.
2220 N. Merced
S. El Monte, Calif. 91733

Office of the President
Hillman Refining Co.
211 S. 8th Street
Marshalltown, Iowa

Office of the President
Hitchcock Industries, Inc.
8701 Bloomington Ave. South
Bloomington, Minn. 55420

Office of the President
Holt Industries, Inc.
4221 Lincoln Blvd.
Venice, California

Director of Purchases
Honeywell, Inc.
17300 South Western Blvd.
Gardena, California 90427

Director of Purchases
Honeywell, Inc.
2753 Fourth Avenue
South Minneapolis, Minn.

Director of Purchases
Honeywell, Inc.
Ordnance Division
600 Second St. North
Hopkins, Minn.

Director of Purchases
Hooker Chemical Corp.
P. O. Box 344
Niagara Falls, New York

MCL000048

Office of the President
Hopping Foundry
367 Arroyo Parkway
Pasadena, California

Office of the President
Hot Springs Brass &
Foundry Company
418 Cleveland Street
Hot Springs, Ark. 71901

Director of Purchases
Howmet Corporation
Misco Division
1713 Seventh Street
Muskegon, Michigan 49443

Director of Purchases
Howmet Corporation
P. O. Box 1167
Lancaster, Pa.

Office of the President
Huckins Tool & Die Co.
1010 Prairie Avenue
Southbend, Indiana 46621

Director of Purchases
Hunt Wesson Foods, Inc.
P. O. Box 3 H
Fullerton, Calif. 92632

Director of Purchases
Hunt Wesson Foods, Inc.
4421 West 31st Street
Chicago, Illinois

Director of Purchases
Glass Container Corp.
P. O. Box 3758 Term Annex
Los Angeles 54, Calif.

Director of Purchases
Hunt Foods
United Can Division
P. O. Box 591
Fullerton, Calif.

Office of the President
Hyatt Die Casting &
Engineering Company
4656 Lincoln Avenue
Cypress, Calif. 90630

Office of the President
Hydranamic Systems Corp.
19513 81st St. South
Kent, Washington

Office of the President
Ideal Fishing Float Co., Inc.
2001 East Franklin Street
Richmond 3, Virginia

Office of the President
Illinois Brick Company
Block Plant 2
1234RD and California
Blue Island, Illinois

Office of the President
Illinois Lock Company
301 W. Hintz Road
Wheeling, Illinois 60090

Office of the President
Impact Die Casting Corp.
1212 East Sixth Street
Sandwich, Illinois

Office of the President
Industrial Castings, Inc.
9400 Meech Avenue
Cleveland, Ohio 44105

Office of the President
Industion Process
Equipment Corp.
32251 N. Avis Drive
Madison Heights, Mich. 48071

Office of the President
Ingram-Richardson, Inc.
Frankfort, Indiana 46041

Director of Purchases
Inland Steel Company
East Chicago, Indiana

Director of Purchases
Getty Oil Company
4201 Wilshire Blvd.
Tidewater Building
Los Angeles 5, Calif.

Office of the President
Interlake Steel Company
135th & Perry Avenue
Chicago, Illinois 60627

Office of the President
Interstate Mfg. Corp.
190 Boston Post Road
Orange, Conn. 06477

Office of the President
Interstate Paper Corp.
Hwy. 17 South
Riceboro, Georgia 31323

Director of Purchases
International Harvester Co.
Wisconsin Steel Works
2701 E. 106th St.
Chicago, Illinois

Office of the President
International Cast Prod., Inc.
1505 West 139th Street
Gardena, California

Director of Purchases
International Harvester Co.
Melrose Park Works
10400 West North St.
Melrose Park, Illinois

Director of Purchases
International Paper Co.
Southern Kraft Div.
P. O. Box 2448
Mobile, Alabama 36601

Director of Purchases
International Smelting &
Refining Company
25 Broadway
New York 4, New York

Director of Purchases
Ajax Magnethermic Corp.
P. O. Box 991
1745 Overland Ave. N. E.
Warren, Ohio 44482

Office of the President
ITT Cannon Electric Co.
P. O. Box 2316
Terminal Annex
Los Angeles, Calif. 90054

MCL000049

Director of Purchases
ITT Cannon Electric Co.
666 East Dyer Road
Santa Ana, California

Director of Purchases
ITT Controls & Instruments
801 Allen Avenue
Glendale, California

Director of Purchases
ITT Federal Support
Services, Inc.
Federal Building
Box 100
Richland, Wash. 99352

Office of the President
J & S Foundry, Inc.
P. O. Box 99
Dewey, Oklahoma

Office of the President
Jersey Central Power &
Light Company
Main Street
South Amboy, New Jersey

Office of the President
John Mohr & Sons
3200 East 96th St.
Chicago, Illinois 60617

Office of the President
Jones Boat Yard
3399 N. W. So. River Dr.
Miami, Florida

Office of the President
Jones & Laughlin Steel Corp.
Hennepin Works Division
Hennepin, Illinois

Director of Purchases
Office of the President
Joslynn Stainless Steel
1701 McKinley Avenue
Ft. Wayne, Indiana

Director of Purchases
Kaiser Aluminum & Chem. Corp.
300 Lakeside Drive
Oakland, California 94604

Director of Purchases
Kaiser Aluminum & Chem. Corp.
P. O. Box 6217
Spokane 28, Washington

Director of Purchases
Kaiser Aluminum & Chem. Corp.
3400 Taylor Avenue
Tacoma, Washington 98421

Director of Purchases
Kaiser Aluminum & Chem. Corp.
Trentwood Works
Trentwood, Wash. 99215

Office of the President
Kaiser Engineers, Inc.
P. O. Box 1609
Butler, Pa. 16001

Office of the President
Kason Hardware Corp.
Colesville Rd.
Binghamton, N. Y. 13902

Office of the President
Kawecki Chemical Co.
Wenatchee Works
P. O. Box 1704
Wenatchee, Wash. 98801

Office of the President
M. W. Kellogg Company
711 Third Avenue
New York, New York

Director of Purchases
Kelsey Hayes Co.
Gunite Division
Rockford, Illinois

Director of Purchases
Kelsey Hayes Co.
38481 Huron River Dr.
P. O. Box 98
Romulus, Mich. 48174

Office of the President
Kenco Die Casting &
Engineering Co.
14418 S. San Pedro St.
Gardena, Calif. 90247

Office of the President
Kennametal, Inc.
Latrobe, Pennsylvania

Director of Purchases
Kennecott Copper Corp.
Utah Copper Division
P. O. Box 1650
Salt Lake City, Utah

Director of Purchases
Kennecott Refining Corp.
P. O. Box 30407
Baltimore 26, Maryland

Director of Purchases
Keystone Brass Works, Inc.
944 West 12th Street
Erie, Pa. 16512

Office of the President
Keystone Steel & Wire Co.
6900 So. Adams St.
Peoria 7, Illinois

Office of the President
Keystone Fluid Systems, Inc.
North Neville & 38th St.
Pittsburgh, Pa. 15201

Office of the President
King Construction Co.
P. O. Drawer C
De Queen, Arkansas

Office of the President
Kitchen-Quip, Inc.
Waterloo, Iowa

Office of the President
Kux Machine Mfg. Co.
515 N. Washington
Saginaw, Michigan

Director of Purchases
Laclede Gas Company
P. O. Box 148
St. Louis

MCL000050

Director of Purchases
Laclede Gas Company
P. O. Box 148
Florissant, Missouri

Director of Purchases
Laclede Steel Company
Arcade Building
St. Louis 1, Missouri

Director of Purchases
Ladish Co.
Pacific Division
3321 East Slauson Avenue
Los Angeles, Calif. 90058

Office of the President
Lamco Diecasting
9630 E. Fern
South El Monte, Calif. 91733

Office of the President
Lantana Boatyard, Inc.
808 N. Dixie Highway
Lantana, Florida 33460

Office of the President
Latrobe Steel Company
Latrobe, Pennsylvania

Office of the President
Lester Industries, Inc.
P. O. Box 46309
Bedford, Ohio 44146

Office of the President
Lester Engineering Co.
2711 Church St.
Cleveland, Ohio 44113

DIRECTOR OF PURCHASES
Office of the President
Libby-Owens-Ford Company
811 Madison Avenue
Toledo, Ohio

Director of Purchases
Lindberg Corporation
Furnace Division
1211 E. Newer Road
Schaumberg, Illinois 60172

DIRECTOR OF PURCHASES
Office of the President
Jones & Laughlin Steel Corp.
S. E. Cor. 3rd Ave. & Ross
Pittsburgh 30, Pa.

Office of the President
L & L Whitemetal Casting Corp.
480 Gotham Parkway
Carlstadt, N. J. 07072

Director of Purchases
Lockheed-Georgia Corp.
Marietta, Georgia

Director of Purchases
Lockheed Aircraft Corp.
Propulsion Division
P. O. Box 111
Redlands, California

DIRECTOR OF PURCHASES
Office of the President
Lone Star Gas Company
1915 Wood Street
Dallas, Texas

Director of Purchases
Lone Star Producing Co.
General Purch. Dept.
301 South Harwood St.
Dallas, Texas 75201

Office of the President
Los Angeles Die Casting Co.
340 Crocker
Los Angeles, California

Director of Purchases
Louden Division
American Chain & Cable Co.
Fairfield, Iowa

Director of Purchases
Lubrizol Sales Co.
Euclid Station
Cleveland 17, Ohio

Office of the President
Lynchburg Foundry Co.
Courtland Building
P. O. Drawer 411
Lynchburg, Virginia

Office of the President
Lyons Diecasting
Buckner, Missouri

Office of the President
Madison-Kipp Corporation
201 Waubesa Street
Madison, Wisconsin 53704

Office of the President
Magnesium Casting Co.
98 Business St.
Hyde Park, Boston, Mass.

Office of the President
Manco Mfg. Co.
Bradley, Illinois

DIRECTOR OF PURCHASES
Office of the President
Marathon Oil Company
P. O. Box 346
Tulsa, Oklahoma

Office of the President
Marion Bronze Company
Marion, Ohio

Office of the President
Materials Transportation Co.
1685 N. Elston Avenue
Chicago, Ill. 60622

Office of the President
Mayer & Oswald Inc.
Maybrook Square
Maywood, Illinois 60153

Director of Purchases
McCulloch Corporation
6101 West Century Blvd.
Los Angeles, Calif. 90045

Director of Purchases
McDonnell Douglas
Astronautics Company
Western Division
3000 Ocean Park Blvd.
Santa Monica, Calif. 90406

MCL000051

Director of Purchases
McDonnell Douglas Corp.
Lambert St. Louis
Municipal Airport
St. Louis 66, Missouri

Director of Purchases
McGraw-Edison Company
Jefferson City, Missouri

Director of Purchases
McGraw-Edison Company
Power Systems Division
12th & Madison Avenues
So. Milwaukee, Wisc. 53172

Director of Purchases
Keystone Steel & Wire Co.
6900 So. Adams St.
Peoria 7, Illinois

Director of Purchases
Jersey Central Power &
Light Company
Main Street
South Amboy, New Jersey

Director of Purchases
Jones & Laughlin Steel Corp.
Hennepin Works Division
Hennepin, Illinois

Director of Purchases
Joslynn Stainless Steel
1701 McKinley Avenue
Ft. Wayne, Indiana

Director of Purchases
Libby-Owens-Ford Company
811 Madison Avenue
Toledo, Ohio

Director of Purchases
Jones & Laughlin Steel Corp.
S. E. Cr. 3rd Ave. & Ross
Pittsburgh 30, Pa.

Director of Purchases
Lone Star Gas Company
1915 Wood Street
Dallas, Texas

Director of Purchases
Marathon Oil Company
P. O. Box 346
Tulsa, Oklahoma

Director of Purchases
Northrop Nortronics
500 East Orangethorpe Ave.
Anaheim, Calif. 92803

Director of Purchases
Oregon Steel Mills
5200 N. W. Front Ave.
Portland, Oregon 97210

Director of Purchases
Orlando Utilities Comm.
400 South Orange Avenue
Orlando, Florida 32801

Director of Purchases
Ormet Corporation
P. O. Box 176
Hannibal, Ohio

Director of Purchases
Sharon Steel Corp.
P. O. Box 291
2075 Belgraves Street
Sharo

Director of Purchases
Sheridan Gray, Inc.
2075 Belgraves Street
Huntington Park, Calif.

Director of Purchases
Sharon Steel Corporation
P. O. Box 291
Sharon, Pa. 16146

Director of Purchases
Southern Calif. Edison Co.
P. O. Box 351
Los Angeles, California

Director of Purchases
Taylor Winfield Corporation
1052 Mahoning Avenue
Warren, Ohio

Director of Purchases
Westinghouse Air Brake
Pittsburgh, Pennsylvania

Director of Purchases
Central Foundry Division
General Motors Corp.
Bedford, Indiana

Mr. John Bunting
Aluminum Company of America
1501 Alcoa Building
Pittsburgh, Pennsylvania

MCL000052

Director of Purchases
National Electric Coil Div.
McGraw Edison Co.
Bluefield, West Va. 24701

Director of Purchases
McMillan Mfg. Co.
403 Fillmore Ave. East
St. Paul, Minn. 55107

Office of the President
M D M Company
Box 144
Grain Valley, Missouri

Director of Purchases
Melamine Plastics Corp. Div.
Universal Mfg. Co.
516 West Fourth Street
Winona, Minnesota

Office of the President
Meta Mold Aluminum Co.
525 East Hamilton
Cedarburg, Wisconsin

Director of Purchases
Methodist Hospital
6516 Bertner Drive
Houston, Texas 77025

Director of Purchases
Metropolitan Edison Co.
P. O. Box 542
Reading, Pa. 19603

Office of the President
Meuir Eng. & Mfg. Co.
North Tennessee
McKinney, Texas

Office of the President
M & H Valve Fitting Co.
Anniston, Alabama

Director of Purchases
Michigan Standard Alloys Inc.
P. O. Box 691
Benton Harbor, Mich. 49022

Director of Purchases
Mechanical Engineers, Inc.
40 West Ridgewood Avenue
Ridgewood, N. J. 07450

Director of Purchases
Michigan Wisconsin
Pipeline Company
One Woodward Avenue
Detroit, Michigan 48226

Director of Purchases
Midland Ross Corp.
920 Illinois Ave.
Maumee, Ohio 43537

Director of Purchases
Midwest Machines Co. of
Indiana, Inc.
150 Gratiot Blvd.
Marysville, Michigan

Director of Purchases
Midwest Foundry Co.
Div. L. A. Darling Co.
Coldwater, Michigan

Director of Purchases
Milwaukee Die Casting Co.
4132 N. Holton St.
Milwaukee, Wisc. 53211

Director of Purchases
Mirro Aluminum Co.
Plant 2
Manitowoc, Wisconsin

Director of Purchases
Purchasing Department
Mississippi River Fuel Corp.
9900 Clayton Road
St. Louis, Missouri

Director of Purchases
Skelly Oil Co.
P. O. Box 1650
Tulsa 2, Oklahoma

Director of Purchases
Univ. of So. Mississippi
P. O. Box 5
Southern Sta.
Hattiesburg, Mississippi

Director of Purchases
Missouri Rogers Corp.
Missouri Casting Div.
905 East Third St.
P. O. Box 1385
Joplin, Missouri 64801

Director of Purchases
Mobil Chemical
Metuchen, New Jersey

Director of Purchases
Mobil Chemical Co.
P. O. Box 240
Edison, New Jersey 08817

Director of Purchases
Mobil Chemical Co.
Chemical Coatings Div.
P. O. Box 1388
Plainfield, N. J. 07062

Director of Purchases
Mobil Oil Corp. Div.
Socony Mobil Oil Co., Inc.
P. O. Box 2207
Bakersfield, California

Director of Purchases
Mobil Oil Corp.
3700 W. 190th Street
Torrance, California 90504

Director of Purchases
Mobil Oil Company
P. O. Box 2122
Los Angeles, Calif. 90054

Director of Purchases
Mobil Oil Co. Div.
Socony Mobil Oil Co., Inc.
Paulsboro, New Jersey

Director of Purchases
Mobil Oil Co. Div.
Socony Mobil Oil Co., Inc.
Brooklyn Refinery
Brooklyn 22, New York

Director of Purchases
Mobil Oil Co. Div.
Socony Mobil Oil Co., Inc.
P. O. Box 3311
Beaumont, Texas

MCL000053

Director of Purchases
Mobil Oil Corporation
Research & Development
Paulsboro Refinery
Paulsboro, New Jersey 08066

Director of Purchases
Mobil Oil Corp.
P. O. Box 458
Wilmington, Calif.

Director of Purchases
Modern Die Casting Corp.
5419 N. Kedzie Avenue
Chicago, Illinois 60640

Office of the President

Moline Malleable Iron Co.

St. Charles, Illinois 60174

Director of Purchases
Club-Monarch Alum. Div.
Standard Int'l. Corp.
9205 Detroit Avenue
Cleveland, Ohio 44107

Director of Purchases
Woodstock Diecasting Div.
Eltra Corp.
555 Wheeler Street
Woodstock, Illinois 60098

Director of Purchases
Purchasing Department
Montana Power Company
Butte, Montana

Office of the President
Samuel Moore Company
Main & Orchard Sts.
Mantua, Ohio

Office of the President

Mueller Brass Company

Port Huron, Michigan

Office of the President
Mueller Company
2801 East 12th Street
Los Angeles 23, Calif.

Director of Purchases
Murad Casting Co., Inc.
164 Glen Cover

Director of Purchases
Murad Casting Co., Inc.
164 Glen Cove Road
Carle Place, New York

Director of Purchases
Murdock, Inc.
15800 South Avalon Blvd.
Compton, California

Director of Purchases
National Metal Abrasive Co.
3560 Norton Road
Cleveland, Ohio 44111

Director of Purchases
National Gypsum Company
North Avenue
Garwood, New Jersey

Director of Purchases
National Cooperative
Refinery Association
McPherson, Kansas

Director of Purchases
National Starch &
Chemical Corp.
1735 West Front Street
Plainfield, N. J. 07063

Director of Purchases
Natural Gas Pipeline Co.
of America
122 So. Michigan Avenue
Chicago 3, Illinois

Office of the President
Neuschotz Engineering
6500 S. Avalon Blvd.
Los Angeles, Calif. 90003

Director of Purchases
Plastics Division
New Britain Machine
South Street
New Britain, Conn. 06051

Director of Purchases
Niagara Mohawk Power Corp.
300 Erie Blvd. West
Syracuse, New York 13202

Director of Purchases
North American Rockwell Corp.
1700 East Imperial Highway
El Segundo, California

Director of Purchases
North American Rockwell Corp.
4300 East Fifth Avenue
Columbus, Ohio 43216

Director of Purchases
T H W Division
North American Rockwell Corp.
Reading, Pa. 19603

Director of Purchases
North Central Chemicals, Inc.
P. O. Box 3091
Eastside Station
Madison, Wisconsin

Director of Purchases
Purchasing Department
Northern Natural Gas Co.
2223 Dodge
Omaha, Nebraska

Director of Purchases
Office of the President
Northrop Nortronics
500 East Orangethorpe Ave.
Anaheim, Calif. 92803

Office of the President

Northwestern Steel & Wire Co.

Sterling, Illinois

Director of Purchases
Norton Company
P. O. Box 6112
Akron, Ohio 44312

Director of Purchases
Norton Vacuum Equipment Div.
160 Charlemont Street
Newton, Mass. 02161

Director of Purchases
Northern Malleable Iron Co.
867 Forest St.
St. Paul, Minnesota

Office of the President

Northern Packaging Corp.

Rochester, New York

Director of Purchases
Novamont Corporation
P. O. Box 189
Kenova, West Virginia

MCL000054

Office of the President
Oak Manufacturing Co.
650 S. Avenue 21
Los Angeles, Calif. 90031

Office of the President
Ogden Engineering Co.
Division & Kennedy
Schererville, Indiana

Office of the President
Ohio Brass Company
Barberton Division
Barberton, Ohio

Office of the President
Ohio Fuel Gas Company
9 North Front Street
Columbus 15, Ohio

Director of Purchases
Olin Conductors, Inc.
P. O. Box 231
Sedalia, Missouri 65301

Director of Purchases
Olin Corporation
Associated Products, Oper.
East Alton, Illinois

Director of Purchases
Olin Corporation
P. O. Box 547
Brandenburg, Ky. 40108

Director of Purchases
Olin Corporation
P. O. Box 164
Hannibal, Ohio 43931

Director of Purchases
Williams Air Control Div.
Omar Industries
14100 S. W. 72nd
Portland, Oregon 97223

Director of Purchases
Office of the President
Oregon Steel Mills
5200 N. W. Front Ave.
Portland, Oregon 97210

Director of Purchases
Office of the President
Orlando Utilities Comm.
400 South Orange Ave.
Orlando, Florida 32801

Director of Purchases
Office of the President
Ormet Corporation
P. O. Box 176
Hannibal, Ohio

Director of Purchases
Oswego Casting Corp.
Mitchell Street
Oswego, New York 13126

Director of Purchases
Oale Products Co.
Div. of Outboard Marine
Corp.
Galesburg, Illinois

Director of Purchases
Johnson Motors
Division of Outboard
Marine & Mfg. Co.
Waukegan, Illinois

Office of the President
Overton Foundry
9850 Adella Street
South Gate, California

Director of Purchases
Owens Illinois, Inc.
P. O. Box 170
Valdosta, Georgia

Director of Purchases
Owens Illinois, Inc.
Alton, Illinois

Director of Purchases
Owens Illinois
Technical Center
Perrysburg, Ohio 43551

Director of Purchases
Owens-Illinois, Inc.
Glass Container Div.
P. O. Box 592
Fairmont, W. Va.

Director of Purchases
Owens Corning
Fiberglas Corp.
P. O. Box 326
Kansas City, Kansas

Director of Purchases
Owens Illinois, Inc.
Streator, Illinois

Director of Purchases
R. S. Owens & Company
5535 Lynch(North)
Chicago, Illinois

Director of Purchases
Town of Oyster Bay
Sanitary Services
Incinerator Plant 2
Winding Road
Old Bethpage, New York

Director of Purchases
Air West, Inc.
P. O. Box 2966
3737 East Bonanza Way
Phoenix, Arizona 85036

Office of the President
Pacific Roller Die
P. O. Box 3998
Hayward, Calif. 94544

Director of Purchases
Pall Corporation
30 Sea Cliff Street
Glen Cove, Long Island, N.Y.

Director of Purchases
Pan American Pet. Corp.
P. O. Box 591
Tulsa, Oklahoma

Director of Purchases
Panhandle Eastern
Pipeline Company
P. O. Box 1348
Kansas City, Mo. 64141

Director of Purchases
Paramount Die Casting Co.
Div. of Talon, Inc.
St. Joseph, Mich. 49085

Director of Purchases
Hannifin Company
Div. of Parker Hannifin Corp.
501 S. Wolf St.
Des Plaines, Illinois

Director of Purchases
Neumatic Division
Parker Hannifin Corp.
500 S. Wolf St.
Des Plaines, Illinois

Director of Purchases
Foundry Division
Peasley Products, Inc.
993 Honeypot Road
Stratford, Connecticut

MCL000055

Director of Purchases
Penn Controls, Inc.
Base Division
4000 W. Burnham St.
Milwaukee, Wisc. 53215

Director of Purchases
Pennwalt Corporation
Pennwalt of Wash. Div.
2901 Taylor Avenue
Tacoma, Washington

Director of Purchases
Pennwalt Corporation
P. O. Box 153
College Park Road
Hapeville, Georgia

Director of Purchases
Pennwalt Corporation
Calvert City, Kentucky

Director of Purchases
Pennwalt Corporation
4655 Biddle Avenue
Wyandotte, Michigan

Director of Purchases
Pennwalt Corporation
Three Penn Center Plaza
Philadelphia, Pa.

Director of Purchases
Penn Controls, Inc.
Goshen, Indiana

Director of Purchases
Pennsylvania Refining Co.
2636 Lisbon Road
Cleveland 4, Ohio

Director of Purchases
Petroleum Distributing Co.
P. O. Box 903
Houston, Texas 77001

Pevely Dairy Company
Director of Purchases
1001 S. Grand Avenue
St. Louis, Missouri

Director of Purchases
Pfizer Chemical Works, Inc.
Linden Avenue
Ridgefield, New Jersey

Director of Purchases
Chas. Pfizer Co., Inc.
Vigo Plant
Terre Haute, Indiana

Director of Purchases
Phelps Dodge Corp.
P. O. Box 391
Suffern, New York

Director of Purchases
Phelps Dodge Refining Corp.
P. O. Box 20001
El Paso, Texas 79998

Director of Purchases
Phelps Dodge Copper Prdts. Co.
P. O. Box 20200
El Paso, Texas 79998

Director of Purchases
Philadelphia Electric Co.
28th and Christian Sts.
Philadelphia 46, Pa.

Director of Purchases
Thompson-Hayward Chem. Co.
29th and Southwest Blvd.
Kansas City, Kansas

Director of Purchases
Phillips Petroleum Co.
1245 Adams Building
Bartlesville, Oklahoma

Director of Purchases
Pittsburgh Des Moines Steel Co.
Neville Island
Pittsburgh, Pa. 15225

Director of Purchases
PPG Industries, Inc.
One Gateway Center
Pittsburgh 22, Pa.

Director of Purchases
Polymer Southern
Plant 4, P. O. Box 2184
Greenville, South Carolina 29602

Director of Purchases
Ponka Drilling &
Products Company
Box 753
Rangely, Colorado 81648

Office of the President
Northwest Paper Company
Cloquet, Minnesota

Director of Purchases
Precision Associates, Inc.
740 Washington Ave. North
Minneapolis, Minn.

Office of the President
Precision Founders, Inc.
414 Hester St.
San Leandro, Calif.

Director of Purchases
Prescolito (Itco Plant)
Div. of U. S. Industries
P. O. Box 1628
El Dorado, Arkansas 71730

Office of the President
Pressure Castings, Inc.
21500 St. Clair Ave.
Cleveland, Ohio 44119

Director of Purchases
Prestolite Company
Div. of Eltra Corp.
West Springfield, Mass.

Office of the President
Prince Mfg. Co.
P. O. Box 31
Holland, Michigan 49423

Director of Purchases
Procter and Gamble Company
P. O. Box 599
Cincinnati, Ohio

MCL000056

Office of the President
Proctor Chemical Co., Inc.
Salisbury, No. Carolina

Director of Purchases
Public Service Electric & Gas Co.
Public Service Terminal
80 Park Place
Newark 1, New Jersey

Office of the President
Puget Die Casting Co.
2101 South Mildred St.
Tacoma, Washington 98466

Director of Purchases
Puritan Packaging Corp.
2319 S. Sixth Street
P. O. Box 4306
Columbus, Ohio

Office of the President
Quality Steel Treatment Co.
3860 Prospect Street
Indianapolis, Ind. 46203

Director of Purchases
Racine Chicago Engineering
15 S. Wolf Road
Northlake, Illinois 60164

Director of Purchases
Racine Hydraulic & Machinery Co.
Simplex Division
Licking Road
Zanesville, Ohio

Director of Purchases
Ralston Purina Company
P. O. Box 788
Clinton, Iowa 52732

Director of Purchases
Ralston Purina Company
Guntersville, Ala. 35976

Director of Purchases
Ralston Purina Company
Chow Plant
Box 129
Springdale, Arkansas

Director of Purchases
Ralston Purina Company
P. O. Box 6777
Denver, Colorado 80206

Director of Purchases
Ralston Purina Company
P. O. Box 1016
Gainesville, Ga. 30501

Director of Purchases
Ralston Purina Company
P. O. Box 1426
Macon, Ga. 31202

Director of Purchases
Ralston Purina Company
Pine & Paxton Streets
Davenport, Iowa

Director of Purchases
Ralston Purina Company
P. O. Box 1020
Iowa Falls, Iowa 50126

Director of Purchases
Ralston Purina Company
P. O. Box 2025
Alameda Branch
Pocatello, Idaho

Director of Purchases
Ralston Purina Company
150 S. McCamly Street
Battle Creek, Michigan

Director of Purchases
Ralston Purina Company
76th & Highway 6
Lincoln, Nebraska 68507

Director of Purchases
Ralston Purina Company
11301 Hosteller Road
Cincinnati, Ohio 45241

Director of Purchases
Ralston Purina Company
P. O. Box 248
Camp Hill, Pa. 17011

Director of Purchases
Ralston Purina Company
2801 Westmorland
Richmond, Va. 23230

Director of Purchases
Ralston Purina Company
P. O. Box 9021
Omaha, Nebraska 78109

Director of Purchases
Ralston Purina Company
Wilson, NorthCarolina
27893

Director of Purchases
Ralston Purina Company
Soy Bean Division
P. O. Box 5187
Memphis, Tennessee 38103

Office of the President
Ranger Die Casting Co.
10928 S. Alameda
Lynwood, California

Director of Purchases
Raybestos-Manhatten, Inc.
Wabash Division
Crawfordsville, Indiana

Office of the President
Reactive Metals, Inc.
P. O. Box 720
Ashtabula, Ohio

Office of the President
Reactive Metals, Inc.
1000 Warren Avenue
Niles, Ohio 44446

Director of Purchases
Reading Tube Division
Reading Industries, Inc.
P. O. Box 126
Reading, Pa. 19603

Reading Metals Ref. Corp.
Director of Purchases
P. O. Box 1111
Reading, Pa.

MCL000057

Office of the President
Red Field Brick & Tile Co.
Redfield, Iowa 50233

Office of the President
Regina Corporation
Rahway, New Jersey

Director of Purchases
Republic Steel Corp.
P. O. Box 6778
Cleveland, Ohio 44101

Director of Purchases
Republic Supply Division
Pike Corp. of America
20101 S. Santa Fe Ave.
Compton, Cal. 90221

Director of Purchases
Hanna Fluid Power Division
Rex Chainbelt, Inc.
1765 Elston Avenue
Chicago, Ill. 60622

Director of Purchases
Thatcher Glass Mfg. Co.
P. O. Box 311
Muscatine, Iowa 52761

Director of Purchases
Reynolds Electrical &
Engineering Co., Inc.
P. O. Box 14400
Las Vegas, Nevada 89114

Director of Purchases
Reynolds Metals Company
Reduction Plant
Sheffield, Alabama

Director of Purchases
Reynolds Metals Company
P. O. Box 520
Arkadelphia, Arkansas

Director of Purchases
Reynolds Metals Company
Jones Mills
Box 252
Malvern, Arkansas

Director of Purchases
Reynolds Metals Company
P. O. Box 500
Massena, New York

Director of Purchases
Reynolds Metals Company
Reynolds Metals Building
Richmond 19, Virginia

Director of Purchases
Reynolds Metals Company
C/O Bechtol Corp.-Agent
P. O. Box 924
Longview, Wash. 98632

Director of Purchases
Reynolds Metals Company
P. O. Box 239
Brookfield, Illinois

Director of Purchases
Richardson Chem. Cleaning
Service, Inc.
68 Liberty Street
Metuchen, N. J. 08840

Office of the President
Rich Manufacturing Company
P. O. Box 910
Corona, California 91720

Office of the President
Richs Village Sporting Goods
2412 Times Blvd.
Houston, Texas

Office of the President
Ridge Casting Company
1155 High Street
Central Falls, R. I.

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1554 Doolittle Drive
San Leandro, California

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Rivett, Inc.
51 Fremont St.
Needham Heights, Mass. 02194

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2400 Sixth St. S. W.
Cedar Rapids, Iowa

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Office of the President
Roblen Research &
Development Corporation
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Colton, California

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Rochester Dairy Cooperative
P. O. Box 920
Rochester, Minnesota

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401 Newell Street
Barberton, Ohio

Director of Purchases
Rockwell Manufacturing Co.
Russellville, Kentucky

Director of Purchases
Rockwell Manufacturing Co.
Pittsburgh Du Bois Div.
Du Bois, Pennsylvania

Director of Purchases
Rohm & Haas Company
Independence Mall West
Philadelphia, Pa.

Office of the President
Roper Corporation
550 Wehrle Avenue
Newark, Ohio 43055

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1560 Fifth Avenue
Bayshore, L.I., New York

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Rounds & Stewart Natural
Gasoline Co., Inc.
Box 700
Wichita, Kansas

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S C M Corporation
Union Commerce Bldg.
Euclid & 9th Sts.
Cleveland, Ohio

Director of Purchases
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S C M Corporation
Macco Chemical Div.
216 Sprowl Road
Huron, Ohio 44839

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Company
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Corpus Christi, Texas

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524 Wingerter
Akron, Ohio 44314

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10th & North Grand Avenue
P. O. Box 359
Springfield, Illinois

Director of Purchases
Sangamo Electric Company
P. O. Box 75
West Union, So. Carolina

Office of the President
San Jose Die Casting Co.
1522 Bergder Drive
San Jose, California 95112

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Schaeffer Mfg. Co.
102 Barton
St. Louis, Missouri

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Div. of Harvey Hubbell
156 W. Providence
Burbank, Calif. 91503

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Waupun, Wisconsin

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P. O. Box 291
Sharon, Pennsylvania 16146

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Shawnee Plastics, Inc.
601 N. Ninth Avenue
Evansville, Ind. 47707

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Sheffer Corporation
6990 Cornell Road
Cincinnati, Ohio 45242

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Shell Chemical Corp.
P. O. Box 2099
Houston, Texas

Director of Purchases
Shell Oil Co., Inc.
Houston Refinery
P. O. Box 2527
Houston, Texas

Director of Purchases
Shell Chemical Co.
Plastics & Resins
P. O. Box 2933
Deer Park, Texas 77536

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Huntington Park, Calif.

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United Aircraft Corp.
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Stratford, Connecticut

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Atlantic Richfield Co.
600 Fifth Avenue
New York, New York 10020

Director of Purchases
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P. O. Box 521
Sinclair Oil Building
909 S. Boston
Tulsa, Oklahoma 74102

Director of Purchases
Singer Company
P. O. Box 4000
Elizabeth, New Jersey 07207

Director of Purchases
Singer Company
Diehl Division
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SKRL Tool & Die Company
34580 Lakeland Blvd.
Eastlake, Ohio 44094

Director of Purchases
SKRL Diecasting, Inc.
34580 Lakeland Blvd.
East Lakeland, Ohio 44094

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Small Assembly, Inc.
1205 Roscoe
Chicago, Illinois

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A. O. Smith Corp.
533 North 27th Street
Milwaukee, Wisconsin

MCL000059

Office of the President
Smith Oil Corporation
1102 Kilburn Avenue
Rockford, Illinois

Office of the President
Koulo Steel Company
2201 E. Carson
Long Beach, Calif. 90810

Office of the President
Southern Natural Gas Co.
P. O. Box 2563
Birmingham, Alabama

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Southern Calif. Edison Co.
P. O. Box 351
Los Angeles, California

Office of the President
Special Metals, Inc.
Middle Settlement Road
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Machines Division
Sperry Rand Corporation
801 South Main Street
Elmira, New York 14904

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Div. of Sperry Rand Corp.
P. O. Box 302
Troy, Michigan 48085

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Ilion, N. Y. 13357

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North 708 Cook
Spokane, Washington 99202

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87 Marshall Street
North Adams, Mass. 01247

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Ortho Division
940 Hensley
Richmond, California

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Chevron Oil
Western Division
P. O. Box 780
Denver 1, Colorado

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Benicia Refinery
Benicia, California

Director of Purchases
Humble Oil & Refining Co.
(HPL or EPRC)
Code M 02758
P. O. Box 2180
Houston, Texas 77001

Director of Purchases
American Oil Company
P. O. Box 5690
Chicago, Illinois 60680

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P. O. Box 911
Joliet, Illinois

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P. O. Box 591
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605 W. Olympic Blvd.
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Eastern Research Center
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Stauffer Chemical Co.
P. O. Box 472
Mt. Pleasant, Tenn. 38474

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970 First National Bldg.
Oklahoma City, Okla. 73102

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Cleveland, Ohio 44115

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Houston, Texas 77021

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7910 Manchester Avenue
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2740 Apple Valley Rd. N.E.
Atlanta, Georgia 30319

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Surface Combustion Corp.
2375 Dorr Street
Toledo, Ohio

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Butler Products Company
407 Hadley Street
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Office of the President
Swedish Crucible Company
8801 Conant
Detroit, Michigan 48211

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12605 Beach Blvd.
Garden Grove, California

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2101 Teall Avenue
Syracuse, New York 13206

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East Northport, New York

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P. O. Box 2511
Houston, Texas 77001

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233 Edney Building
Chattanooga, Tennessee 37402

Director of Purchases
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Massau, New York 12123

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803 James Building
Chattanooga, Tennessee

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P. O. Box 1608
Lufkin, Texas 75901

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P. O. Box 1160
Owensboro, Kentucky 42301

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900 Clancy
Grand Rapids, Michigan

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780 North Clinton Avenue
Trenton 7, New Jersey

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Sheboygan, Wisconsin

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219 Kelly Avenue
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Canton, Ohio

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2425 West Michigan Avenue
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3878 East 93rd Street
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P. O. Box 296
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Alliance, Ohio 44601

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Chattanooga, Tenn. 37401

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UMC Industries, Inc.
325 Paul Avenue
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Chemical Corporation
Boron, California 93516

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P. O. Box 267
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Homestead Steel Works
Homestead, Pa.

Director of Purchases
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120 Montgomery Street
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1000 18th Street
Detroit, Michigan 48216

MCL000061

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Paducah, Kentucky 42001

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Chemicals Division
270 Park Avenue
New York 17, New York

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Electronics Division
Components Department
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Greenville, So. Carolina

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Mining & Metals Division
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Rockwood, Tenn. 37854

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Sisteraville, West Va.

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Union Carbide Plastics
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St. Louis, Mo. 63166

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Ashland, Ohio

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P. O. Box 7600
Los Angeles 54, Calif.

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Denver, Colorado 80202

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Los Angeles, Calif. 90060

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Opelika Plant
P. O. Box 30
Hwy. 169 & Limekiln Road
Opelika, Alabama 36801

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Uniroyal Chemical Div.
Elm Street
Naugatuck, Conn. 06770

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Uniroyal, Inc.
5675 Telegraph Road
Los Angeles, Calif. 90022

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Joliet Army Ammunition Pl.
P. O. Box 871
Joliet, Illinois 60434

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Box 387
Toledo, Ohio 43601

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400 Main Street
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948 Ft. Duquesne Blvd.
Pittsburgh 22, Pa.

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P. O. Drawer 1273
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Charleston, W. Va.

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P. O. Box 599
Fairfield, Alabama

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Gary, Indiana

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Lorain Works
Lorain, Ohio 44055

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Ohio Works
Youngstown, Ohio

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Christy Park Works
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Carrie Furnace
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U. S. Army
Hill Field,
Utah

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Chemical Warfare Service
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Foundry Co.
P. O. Box 2651
Birmingham, Alabama

United States Pipe &
Foundry Co.
Bessemer Pipe Plant
2023 St. Louis Avenue
Bessemer, Alabama
Attn: Director of Purchases

Director of Purchases
United States Steel Corp.
South Chicago, Illinois

United States Steel Corp.
P. O. Box 267
Pittsburgh, Pa. 15230
Attn: Director of Purchases

Oil Well Supply Company
P. O. Box 478
Dallas 21, Texas
Attn: Director of Purchases

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U. S. Steel Corporation
Geneva Works
Box 510
Provo, Utah 84601

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375 East Joe Orr Road
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Alice, Texas 78332

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West Springfield, Mass.

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833 Third St. Southwest
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Dept. of Physics
McCormick Road
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St. Louis, Mo. 63177

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Small Motor Division
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Steam Div., Lester Branch
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Philadelphia, Pa.

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R & D Center
Building 501, Beulah Road
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Accessories, Inc.
45 John Street
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Stambaough Building
Youngstown 1, Ohio

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Central Research Lab.
Murray Hill, New Jersey 07971

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& Anodes
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Berkeley, California 94710

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Central Stores
303 Carroll Street
Akron 4, Ohio

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Exeter, New Hampshire 03833

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Amityville, New York 11701

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Midwest Division
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Des Moines, Iowa

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Erie Avenue
Susquehanna, Pa. 18847

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260 Lunenburg Street
Fitchburg, Mass. 01420

Director of Purchases
Associated Photographers, Inc.
3710 Main Street
Kansas City, Mo. 64111

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Delaware Trust Building
Wilmington 99, Delaware

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Harrisburg & Sawburg Road
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Brooklyn, New York 11225

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16140 Raymer
Van Nuys, California 91406

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P. O. Box 123
East Rutherford, N.J. 07073

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Bel-Art Creations
P. O. Box 273
Hermosa Beach, Cal. 90254

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Bell Aerospace Corporation
P. O. Box 1
Buffalo 5, New York

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Bradley University
1501 West Bradley Avenue
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1531 Brea Canyon Road
Brea, California

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Brown Shoe Company
8300 Maryland Avenue
Clayton, Missouri 63105

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Concord Road
Billerica, Massachusetts

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Phillipsburg, New Jersey 08865

Director of Purchases
Cat-Chem Corporation
P. O. Box 108
Phillipsburg, New Jersey

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924 Jones Law Bldg.
Pittsburgh, Pennsylvania

Director of Purchases
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142 Hamilton Avenue
Stamford, Connecticut 06902

Director of Purchases
Coastal States Petrochemical Co.
P. O. Box 521
Corpus Christi, Texas

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Coca Cola Bottling Works
1507 Dana Avenue
Cincinnati, Ohio

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Colorcraft of Charlotte, Inc.
P. O. Box 2048
Charlotte, North Carolina

Director of Purchases
Colorcraft Corporation
P. O. Box 2975
Durham, N. C. 27705

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818 West Riverside Avenue
Lincoln Building
Spokane, Washington 99201

Director of Purchases
Continental Can Corporation
6001 South Eastern Avenue
Los Angeles, California

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Copolymer Rubber & Chem. Corp.
P. O. Box 1029
Baton Rouge, Louisiana

Director of Purchases
Cortland Line Co., Inc.
Cortland, New York

Director of Purchases
Chem Pump Division
Crane Company
175 Titus Avenue
Warrington, Pennsylvania

Director of Purchases
Custome Materials, Inc.
Alpha Industrial Park
Chelmsford, Mass. 01824

Director of Purchases
C X Processing Laboratories, Inc.
1201 Second Avenue
Seattle, Washington 98101

D.E.K. Manufacturing Co.
P. O. Box 138
Orrville, Ohio 44667

Attn: Director of Purchases

Office of the President
A. Daigger Company
159 West Kinzie
Chicago, Illinois 60610

D.C.A. Food Industries, Inc.
31-01 Washington Blvd.
Catonsville, Md. 21228

Attn: Director of Purchases

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Davis Supply Company
P. O. Box 856
Flint, Michigan 48501

Director of Purchases
Dixie Chemical Company
P. O. Box 13410
Houston, Texas 77019

Director of Purchases
Dock Resins Corporation
512 West Elizabeth Avenue
Linde, New Jersey

Director of Purchases

Dow Badische Chemical Co.

Freeport, Texas

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Duametallic Corporation
2104 Factory Street
Kalamazoo, Michigan 49001

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Photo Lab 195
6349 Cove Street
Winter Park, Florida 32789

Director of Purchases
Edwards Lab., Division
American Hospital Supply
624 Dyer Road
Santa Ana, California 92705

Director of Purchases
El Paso Products Company
P. O. Box 3986
Odessa, Texas

Director of Purchases
Eureka Chemical Company
234 Lawrence Avenue
San Francisco, California 94080

Director of Purchases
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799 Freedom Street
Ravenna, Ohio 44266

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Synthetic Rubber & Latex Division
381 West Wilbeth Road
Akron, Ohio

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North St. Paul, Minnesota 55109

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Ford Motor Company
P. O. Box 1180
Dearborn, Michigan

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Franklin Fibre Lamitex Corp.
903 East 13th Street
Wilmington, Delaware

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General Motors Corporation
Buick Motor Division
Hamilton Avenue
Flint, Michigan

Director of Purchases
General Motors Corporation
Oldsmobile Division
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695 Flatbush Avenue
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Atomic Power Equipment Dept.
P. O. Box 254
2151 South First Street
San Jose, California

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Appliance Control Dept.
West Wall Street
Morrison, Illinois

Director of Purchases
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Chevrolet Motor Division
National Parts Distr.
6060 West Bristol Road
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Manufacturing & Development
12 Mile and Mound Roads
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Columbus Division
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Columbus, Mississippi 39701

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Gilman, Connecticut

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Research Center
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Jessup and Grove Road
Thorofare, New Jersey 08086

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Grace Research & Development
Washington Research Center
Clarksville, Maryland

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Gray Company
22211 Telegraph
Southfield, Michigan 48077

Director of Purchases
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Gulf Building
P. O. Box 1166
Pittsburgh 30, Pennsylvania

Director of Purchases
Gulf Oil Corporation
Chemical Department
P. O. Drawer 3
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Director of Purchases
Haveg Industries, Inc.
Glascote Products Division
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Cleveland, Ohio 44117

Director of Purchases
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Div. Sterling Drug, Inc.
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Mr. H. J. Snellson

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P. O. Box 3 H
Fullerton, California 92632

Director of Purchases
Hydro Aire, Inc.
3000 Winona Avenue
Burbank, California

Director of Purchases
Hydrothane
1308 West Anaheim
Long Beach, California 90813

Office of the President
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Camp Hill, Pa. 17011

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Director of Purchases
Lummus Corporation
P. O. Box 8
Carlstadt, New Jersey

Director of Purchases
Inter-American Foods, Inc.
P. O. Box 787
Brownsville, Texas 78520

Office of the President
George Jenkins Company
Bridgewater, Massachusetts

Office of the President
Jenos, Inc.
525 Lake Avenue South
Duluth, Minnesota 55802

Director of Purchases
Joris Herpicide Mfg. Co.
100 Jersey Avenue
New Brunswick, New Jersey 08901

Director of Purchases
Joden-Scott Company
No. 10 Third Avenue
Walla Walla, Washington 99362

Director of Purchases
K & S Manufacturing Company
P. O. Box 313
Freeport, Illinois 61032

Office of the President
George Koch & Sons, Inc.
P. O. Box 365
Evansville, Indiana

Office of the President
Kontro Company
465 Main Street
Athol, Massachusetts 01331

Director of Purchases
Koss Construction Company
P. O. Box 850
El Reno, Oklahoma 73036

Director of Purchases
Magnaflux Corporation
7300 West Lawrence
Chicago, Illinois 60656

Director of Purchases
Mayflower Electronics Corp.
20 Industrial Avenue
Little Ferry, N.J. 07643

Director of Purchases
McDonnell Douglas Astronautics Co.
Western Division
3000 Ocean Park Blvd.
Santa Monica, California 90406

Director of Purchases
Metal Products Corporation
P. O. Box 1924
Greenville, South Carolina 29602

Director of Purchases
Mead Containers Division
Mead Corporation
Washington Court House, Ohio
43160

Director of Purchases
Menasha Corporation
Container Division
600 Alexander Avenue
Tacoma, Washington 98421

Director of Purchases
Merck & Company
P. O. Box 67
Rahway, New Jersey

Director of Purchases
Mercury Holding Machine Co.
2380 Beryllium Road
Scotch Plains, New Jersey 07076

Director of Purchases
Mercury Photo Service, Div.
Berkely Photo
1030 Long Beach Blvd.
Long Beach, California

Director of Purchases
Metal Wire Recovery
RD 2
Danville, Pennsylvania

Director of Purchases
Milchem Incorporated
3020 Essex Lane
P. O. Box 22211
Houston 27, Texas

Director of Purchases
Hill Master Oxyx Corporation
Berkeley Chemical Dept.
11 Summit Avenue
Berkeley Heights, New Jersey

Director of Purchases
Moncrief Photo Service
P. O. Box [illegible]
Seattle, Washington 98114

Director of Purchases

Director of Purchases
Millmaster Onyx Corporation
Berkeley Chemical Dept.
11 Summit Avenue
Berkeley Heights, New Jersey

Director of Purchases
Mirrolike Photo Service
P. O. Box 3006
Seattle, Washington 98114

Director of Purchases
Mobil Oil Company
2000 Westhall Street
Pittsburgh, Pa. 15233

Director of Purchases
Morton Frozen Foods Division
Continental Baking Co., Inc.
Box 97
Crozet, Virginia 22932

Mr. Olney

P. O. Box 1642

Newport Beach, California

Director of Purchases
National Biscuit Co. Bakery
Roosevelt Blvd.-Byberry Road
Philadelphia, Pennsylvania

Mr. Carl W. Newell
Manufacturing
6799 San Fernando Road
Glendale, California 91201

Director of Purchases
Norman Engineering Company
5899 Venice Boulevard
Los Angeles, California 90019

Director of Purchases
O.E.C. Division
Panner Mfg. Co.
900 North Chapel Street
Louisville, Ohio 44641

Director of Purchases
Olinkraft
465 S. Delaney
Owosso, Michigan

Director of Purchases
Owens Corning Fiberglas Corp.
P. O. Box 326
Kansas City, Kansas

Director of Purchases
Owens Illinois, Inc.
Forest Products Division
4240 Bandini Boulevard
Los Angeles, California 90023

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Page Plumbing and Heating Co.
100 West Pleasant
River Rouge, Michigan 48218

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Pan American World Airways
Guided Missiles Range Division
P. O. Box 670
Las Vegas, Nevada 89101

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Parke-Davis and Company
P. O. Box 118
Roosevelt Park Annex
Detroit, Michigan

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Patterson Industries, Inc.

East Liverpool, Ohio 43920

Office of the President
Pearson Photo Service
102 McDowell Street
Laurens, South Carolina

Director of Purchases
Pennsylvania Refining Co.
2686 Lisbon Road
Cleveland 4, Ohio

Director of Purchases
Penobscot Unit
Callahan Mining Corporation
Harborside, Maine 04642

Office of the President
Perfect Photo Company
3030 South Boulevard
Charlotte, North Carolina

Director of Purchases
Perfect Photo, Inc.
4747 North Broad Street
Philadelphia, Pa. 19141

Office of the President
Perry Photo, Inc.
P. O. Box 16250
Houston, Texas 77022

Director of Purchases
Piedmont Manufacturing Company
Altavista, Virginia 24517

Director of Purchases
PPG Industries, Inc.
465 Crenshaw Blvd.
Torrance, California

Director of Purchases
Plastic Product Company
12808 Hutwood
Garden Grove, California

Director of Purchases
Coca Cola Bottling Works
Portsmouth, Virginia 23705

Director of Purchases
Products Research &
Chemical Corporation
2919 Empire Avenue
Burbank, California 91504

MCL000069

Director of Purchases
Quaker Oats Company
Merchandise Mart Plaza
Chicago 54, Illinois

Director of Purchases
R.C.A. Corporation
Magnetic Products Division
6900 East 30th Street
Indianapolis, Indiana 46219

Director of Purchases
A & A Manufacturing
P. O. Box 13005
6500 West 21st Street
Wichita, Kansas

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Ramshaw Photo, Inc.
13310 W. Chicago
Detroit, Michigan 48228

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Consumer Electronics Div.
600 North Sherman Drive
Indianapolis, Indiana 46201

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Resistoflex Corporation
Department 20
Woodland Road
Roseland, New Jersey.

Director of Purchases
Isaac Chemical Company, Div.
Pfaulder-Permutit
Birmingham, New Jersey

Director of Purchases
Hansen Metals Corporation
55 Manufacturers Place
Newark, New Jersey

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Midland Ross Corporation
717 Beverly Blvd.
Montebello, California 90640

Director of Purchases
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1702 Nevins Road
Fairlawn, New Jersey 07410

Director of Purchases
Scheen Paving Company
310 South Westwood
Toledo, Ohio 43609

Director of Purchases
Shamrock Corporation
P. O. Box 14146
258 Eller Avenue
Louisville, Kentucky

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Schulz Rubber Products, Inc.
430 Madera Street
San Gabriel, California

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Siebel Air Company
5563 West Washington
Los Angeles, California 90016

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St. Regis Paper Company
150 East 42nd Street
New York, New York

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P. O. Box 243
Elizabeth, New Jersey

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Ortho Division
940 Hensley
Richmond, California

Director of Purchases
Stauffer Chemical Co.
Gallipolis Ferry, W. Va.

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Stein Hall & Co.
P. O. Box 369
Argo, Illinois

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Sterling, Inc.
5200 West Clinton Avenue
Milwaukee, Wisconsin 53223

Director of Purchases
Sun Oil Company
DX Division
Classen Center, 8th Floor
North Building
Oklahoma City, Oklahoma 73106

Director of Purchases
Sun Oil Company
DX Division
P. O. Box 51265
Oil Center Station
Lafayette, Louisiana 70505

Director of Purchases
Sun Oil Company
DX Division
P. O. Box 381
Tulsa, Oklahoma

Director of Purchases
Target Photo Finishers, Inc.
1712 North Mill Street
Jackson, Mississippi 39202

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Technical Chemicals Corp.
131 Willow Street
Cheshire, Connecticut

Director of Purchases
Techform Laboratories
707 South Hampton Drive
Venice, California 90291

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Texas Refinery Corporation
P. O. Box 711
Fort Worth, Texas

MCL000070

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Thayer School of Engineering
Dartmouth College
Hanover, New Hampshire 03755

Director of Purchases

Troy Mills, Inc.

Troy, New Hampshire

Director of Purchases
Thomas L. Lipton Company
500 Sylvan Avenue
Englewood Cliffs, New Jersey

Director of Purchases
Universal Bonding & Processing
Corporation
100 Maltese Drive
Totowa, New Jersey 07512

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U.S. Government Finance
& Accounting Office
Granite City Army Depot
Granite City, Illinois 62040

Director of Purchases
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375 East Joe Orr Road
Chicago Heights, Illinois

Director of Purchases
Westinghouse Electric Corp.
Box 67
San Clemente, California

Director of Purchases
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26096 Getty Drive
Laguna Miguel, California

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616 N. 5th Street
Minneapolis, Minnesota 55401

Office of the President
Thermo Electron Corporation
15 Lunia Street
Waltham, Massachusetts

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U.S.M. Corporation
Chemical Division
Middleton, Mass. 01949

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Nuclear Division
P. O. Box 1410
Paducah, Kentucky 42001

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University of Louisville
Scientific Buyers Office
511 S. Floyd Street
Louisville, Kentucky 40202

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GIN C USN Comm. Store
U. S. Naval Air Depot
Crane, Indiana

Office of the President
Valley Kitchens, Inc.
Route 42
Mason, Ohio 45040

Director of Purchases
Western Chemical Co., Inc.
P. O. Box 816
Morgantown, W. Va.

Hydraulic & Anodizers start here:

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A & E Engle
c/o Avondale Ship Yard
Harvey Yard, Destrahan Avenue
Harvey, La. 70058

Office of the President
Airco Alloys Company

Calvert City, Kentucky

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Voie Incorporated
2401 South Pullman
Santa Ana, California

Director of Purchases
Ugine Kuhlmann of America, Inc.
745 Fifth Avenue
New York, New York 10016

Director of Purchases
Higgs-United Division
United McGill Corporation
1007 Rank Street
Akron, Ohio 44305

Director of Purchases
USAF
Building 70
Wright Patterson A.F.B., Ohio

Director of Purchases
U. S. Government
D. H. Adams, Congrol Officer
Naval Ammunitions Depot
McAlester, Oklahoma 74501

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Van-Top, Inc.

Holstein, Iowa

Director of Purchases
Westrece, Inc.
P. O. Box 89
Marysville, Ohio 43040

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Acme Foundry & Machine Co.

Blackwell, Oklahoma 74631

Director of Purchases
Air Drums Parts
3251 Airport Way
Long Beach, California

MCL000071

Director of Purchases
Ajax Forging & Casting Co.
805 Adair Street
Detroit, Michigan 48207

Aldridge Industrial Oils, Inc.
3401 West 140th Street
Cleveland, Ohio

Attn: Director of Purchases

Office of the President
Alliance Machine Co.
Alliance, Ohio

Director of Purchases
Allied Engineering & Product Corporation
2421 Blanding Avenue
Alameda, California 94501

Director of Purchases
Allis Chalmers Mfg. Co.
Norwood Works
4620 Forest Avenue
Cincinnati, Ohio 45212

Director of Purchases
Louis Allis Co.
Litton Industries
2300 Lynch Road
Evansville, Indiana 47711

Director of Purchases
American Smelting & Refining Co.
P. O. Box 24038
Houston, Texas 77029

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American Monorail Co.
1111 East 200th Street
Euclid, Ohio 44117

Director of Purchases
Champion Paper Products Co.
P. O. Box 593
Cincinnati 1, Ohio 45201

Director of Purchases

Anchor Coupling Co., Inc.

Libertyville, Illinois

Director of Purchases
Armco Steel Corporation
National Supply Division
P. O. Drawer 28
Torrance, California 90509

Director of Purchases
Armco Steel Corporation
P. O. Box 591
Butler, Pennsylvania 16001

Director of Purchases
Arnold Research Organization, Inc.
Arnold Air Force Station,
Tennessee 37389

Director of Purchases
United Carbon Company, Div.
Ashland Oil & Refining Co.
P. O. Box 696
New Iberia, La. 70560

Director of Purchases

Ashtabula Rubber Co.

Ashtabula, Ohio

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Atlas Die Casting Co.
362 North Holly Avenue
Germantown, Ohio 45327

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Attala Company
P. O. Drawer 697
Kosciusko, Miss. 39090

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4000 Clairton Blvd.
Pittsburgh, Pa. 15227

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P. O. Box 50280
New Orleans, Louisiana

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Moby Chemical Company
Penn Lincoln Parkway West
Pittsburgh 5, Pennsylvania

Director of Purchases
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Pettibone Mulliken Co.
2424 N. Cicero Avenue
Chicago, Illinois

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Bell-Hydon Supply Corp.
P. O. Box 2052
Houston, Texas 77001

Director of Purchases
Berg Mfg. and Sales Co.
333 East Touhy Avenue
Des Plaines, Illinois 60011

Director of Purchases
Block Sivalls & Bryson
7500 East 12th Street
Kansas City, Missouri

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Blaw-Knox Company
Norwood Works
Norwood, West Virginia

Director of Purchases
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101 E. Chester Road
Swarthmore, Pa. 19081

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R. H. Blumenthal, Inc.
27916 Silver Spur Road
Palos Verdes, Calif. 90274

MCL000072

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805 South Main Street
Memphis, Tennessee

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Brunswick Pulp & Paper Co.
Brunswick, Georgia

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H & T Machinery Company
217 West 8th Street
Holland, Michigan 49423

Director of Purchases
Budd Company
Paper Products Division
Howland Avenue
Adams, Massachusetts 01220

Office of the President
Burger Boat Company
1811 Spring
Manitowoc, Wisconsin

Director of Purchases
[illegible], A. Incorporated
3315 North Oak Trafficway
P. O. Box 7305
Kansas City, Missouri

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1950 Northcreske Road
Clawson, Michigan 48017

Director of Purchases
Casting Engineering
2323 North Bosworth Avenue
Chicago, Illinois

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Catalytic Construction Co.
1528 Walnut Street
Philadelphia, Pa. 19102

Director of Purchases
Celanese Chemical Company
P. O. Box 428
Bishop, Texas 78343

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Champlin Refining Company
Purchasing Department
Enid, Oklahoma

Director of Purchases
CGS Scientific Corporation
Lawrence Division
Industrial Boulevard
Southampton, Pa. 18966

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Chase Bag Company
5051 Southwest Avenue
St. Louis, Missouri 63110

Director of Purchases
Chase Brass & Copper Co., Inc.
20600 Chargrin Boulevard
Cleveland, Ohio 44122

Director of Purchases
Chicago White Metal Casting, Inc.
5239 West Grand Avenue
Chicago, Illinois

Director of Purchases
C and L Diecasting Company
12270 Montague
Pacoima, California 91331

Director of Purchases
Clark Equipment Company
Buchanan, Michigan 49107

Director of Purchases
Clements Oil Company
Highway 59 North
Atlanta, Texas

Director of Purchases
Cleveland Brass Manufacturing Co.
P. O. Box 158
Kinsman, Ohio 44428

Director of Purchases
Commercial Diecasting Co.
774 Monterey Pass Road
Monterey Park, California 91754

Office of the President
Compton Electric & Machinery
3685 Clark
St. Louis, Missouri 63110

Director of Purchases
Deep Sea Bells
P. O. Box 213
Newport, Oregon 97365

Director of Purchases
Denver Equipment Company
P. O. Box 5268
Denver, Colorado 80217

Director of Purchases
Derose Research, Inc.
445 East Pike
Canonsburgh, Pennsylvania

Director of Purchases
Dopco Chemical Division
Diamond Shamrock Chemical
60 Park Place
Newark, New Jersey 07101

Office of the President
Die Casters, Inc.
90 Herbert Avenue
Closter, New Jersey 07624

Director of Purchases
Driver-Harris Company
201 Middlesex Street
Harrison, N. J. 07029

MCL000073

Office of the President
Edward C. Levy Company
8800 Dix
Detroit, Michigan 48209

Office of the President
Empire Plow Company
3140 East 65th Street
Cleveland, Ohio 44127

Director of Purchases
Engineered Products Company
P. O. Box 847
Wichita, Kansas 67201

Office of the President
E-S-B Incorporated
19 West College Avenue
Yardley, Pa. 19067

Office of the President
Eugene Welding Company
302 Carleton Avenue
Marysville, Michigan 48040

Excelco Developments, Inc.
P.O. Box 230
Silver Creek, New York 14136

Attn: Director of Purchases

Office of the President
Fairmont Glass Corporation
1301 South Keystone Avenue
Indianapolis 7, Indiana

Office of the President
R. L. Faubion Company
2525 S. W. Boulevard
Kansas City, Missouri

Director of Purchases
FMC Corporation
Chemicals & Plastics Division
P. O. Box 1616
Baltimore, Maryland

Director of Purchases
FMC Corporation
Chemicals & Plastics Division
Ohio Apex Plant
Nitro, West Virginia

Office of the President
Foster Consulting Engineering
1116 Waugh Drive
Houston, Texas 77006

Director of Purchases
Galion Iron Works & Mfg. Co.
Div. Jeffrey-Galion Mfg. Co.
P. O. Box 647
Galion, Ohio 44833

Director of Purchases
General Dynamics Corp.
Electro Dynamic Division
150 Avenel Avenue
Avenel, New Jersey

Director of Purchases
General Motors Corp.
General Motors Proving Ground
Milford, Michigan

Director of Purchases
General Motors Corp.
Research Laboratory
Box 388
Warren, Michigan

Director of Purchases
General Aluminum Corp.
North 100 Erie Street
Terminal Annex Box 2826
Spokane, Washington 99220

Director of Purchases
General Cable Corporation
500 High Street
Perth Amboy, New Jersey

Director of Purchases
General Casting Corporation
Route 6
Jefferson Valley, N.Y. 10535

Director of Purchases
General Electric Company
Atomic Power Equipment Dept.
P. O. Box 254
2151 South First Street
San Jose, California

Director of Purchases
General Electric Corporation
P. O. Box 237
General Post Office
Detroit, Michigan 48232

Director of Purchases

General Electric Company

Waterford, New York 12188

Director ofPurchases
General Electric Company
23 River Road
Schenectady 5, New York

Director of Purchases
Euclid Division
General Motors Corporation
Hudson, Ohio

Director of Purchases
Aerojet General Corporation
11711 Woodruff Avenue
Downey, California 90241

Office of the President
Glass Rock Products
2210 Marietta Blvd. N.W.
Atlanta, Georgia 30319

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Goodyear Atomic Corporation
P. O. Box 628
Piketon, Ohio

Director of Purchases
Goodyear Tire & Rubber Co.
1144 East Market Street
Akron 16, Ohio

Director of Purchases
Goslin-Birmingham, Inc.
8th Avenue and 33rd St. N.
Birmingham, Alabama 35222

Director of Purchases
Gommey Division
A. P. Green Fire Brick C.
Hedley St. & Delaware River

MCL000074

Director of Purchases
Gosiln-Birmingham, Inc.
6th avenue and 33rd St. N.
Birmingham, Alabama 35222

Director of Purchases
Kenney Division
A. P. Green Fire Brick Co.
Hedley St. & Delaware River
Philadelphia 37, Pennsylvania

Director of Purchases
A. P. Green Refractories Co.
Mexico, Missouri 65265

Director of Purchases
Green Valley Chemical Corp.
P. O. Box 86
Creston, Iowa

Director of Purchases
Greenlee Bros. and Co.
2136 12th Street
Rockford, Illinois

Office of the President
Hahn & Clay
5100 Clinton Drive
Houston, Texas 77020

Director of Purchases
Harbison Carborundum Corp.
Refractories Division
Falconer Plant
Falconer, New York

Director of Purchases
Harbison Walker Refractories Co.
307 Fifth Avenue
Pittsburgh, Pa.

Director of Purchases
Harshaw Chemical Co.
Div. Kewanee Oil Co.
19200 Villaview Road, N.E.
Centerline Bldg., Room 303
Cleveland, Ohio 44119

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9818 Grinnell Avenue
Detroit, Michigan 48210

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Corpus Christi, Texas

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Hillsboro Glass Company
Hillsboro, Illinois 62049

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Hoefner Corporation
1826 Floradale Avenue
South El Monte, California

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Horticultural Plastics, Inc.
2125 46th Street, N.W.
Canton, Ohio

Office of the President
Huron Aluminum Corporation
Huron Avery Road
Huron, Ohio

Director of Purchases
Huron Valley Steel Corporation
12451 Haggerty Road
Belleville, Michigan 48111

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6300 West Howard Street
Chicago, Illinois 60648

Director of Purchases
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6505 Wilshire Blvd.
Los Angeles, California 90048

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Dunkirk, Indiana 47336

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2101 Spy Run Avenue
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2961 Gardena Avenue
Long Beach, California 90806

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Inductotherm Corporation
10 Indel Avenue
Rancocas, New Jersey 08073

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Industrial Oxygen Corporation
P. O. Box 5910
Longview, Texas 75601

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3200 N.W. Yeon Avenue
Portland, Oregon 97210

Director of Purchases
Industrial Die Casting Co.
2333 North Wayne Avenue
Chicago, Illinois 60614

Director of Purchases
International Business Machines
Corporation
4031 N.E. 12th Street
Fort Lauderdale, Fla. 33308

Director of Purchases
International Business
Machines Corporation
Engineering Department
Culver Road
Dayton, New Jersey 08810

Dire

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Director of Purchases
International Business
Machines Corporation
Engineering Laboratory
P. O. Box 390
Poughkeepsie, New York

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ITT Barton
580 Monterey Pass Road
Monterey Park, California

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Iroquois Gas Corporation
10 Lafayette Square
Room 840
Buffalo, New York 14203

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St. Louis, Missouri

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Jersey Plastics & Diecasting Co.
149 Shaw Avenue
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Machine Works, Inc.
920 West Walnut Street
Johnson City, Tennessee

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Hennepin Works Division
Hennepin, Illinois 61327

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900 Woodland Avenue
Michigan City, Indiana

Director ofPurchases
K. R. Wilson Division
Chisholm Ryder Co., Inc.
Arcade, New York 14009

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Kaiser Co.
P. O. Box 516
Jonesboro, Georgia

Director of Purchases
Koppers Company, Inc.
750 Koppers Bldg.
Pittsburgh, Pennsylvania

Office of the President
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2745 11th Avenue, S.W.
Seattle, Washington 98134

Director of Purchases
Leonard Precision Operation
P. O. Box 2099
Westminster, California 92683

Office of the President
Lewis Products Co.
Bohemwald, Tennessee

Director of Purchases
Lindberg Corporation
Furnace Division
1975 North Ruby Street
Melrose Park, Illinois 60160

Director of Purchases
Lindberg Steel Treating Co.
1975 North Ruby Street
Melrose Park, Illinois 60160

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10th and Commerce
Lockport, Illinois

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Louis Allis Co.
27 East Stewart St.
Milwaukee 7, Wisconsin

Office of the President
Lowe & Company
5238 North Second Street
St. Louis, Missouri

Director of Purchases
MacMillan Hydraulic Engineering
7355 N. Lawndale Avenue
Skokie, Illinois 60076

Marathon Oil Company
c/o Eugene Stallings
Court Building
Evansville, Indiana 47708

Office of the President
Masten Corporation
3555 West Addison
Chicago, Illinois

Director of Purchases
Mathew Steel Company
P. O. Box 266
Paramount, California 90723

Director of Purchases
M.B.M. Company
Route 1
Lonejack, Mo.

Director of Purchases
F. W. Means Company
1225 West High Street
Lexington, Kentucky 40508

Director of Purchases
Mechanical Tool & Engineering Co.
4701 Kishwaukee Street
Rockford, Illinois 61101

MCL000076

Office of the President
[illegible] Tool Corporation
[illegible] West McFarland
Ventura, California 93004

Director of Purchases
Midwest Aluminum Corporation
7696 West Michigan Avenue
Kalamazoo, Michigan 49001

Director of Purchases
Midland Ross Corporation
Power Control Division
490 South Chestnut Street
Owosso, Michigan 48867

Director of Purchases
Midland Ross Corporation
Madison Ave. & West 106th
Cleveland 1, Ohio

Director of Purchases
Skelly Oil Co.
P. O. Box 1071
Big Spring, Texas 79721

Mr. W. L. Gill
Mobil Oil Company, Div.
Socony Mobil Oil Co., Inc.
Corpus Christi, Texas

Office of the President
Monical & Fewell, Inc.
P. O. Box 979
Alvin, Texas 77511

Office of the President
Monofrax Corporation
501 New York Avenue
Falconer, New York 14733

Mr. R. T. Morrow

Box 7

McKittrick, California 93251

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A. B. Mueller & Company
2101 East John Street
St. Louis, Missouri

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Edgar Murray Supply Co., Inc.
P. O. Drawer 51959
New Orleans, Louisiana 70150

Director of Purchases
Natco Corporation
East Canton, Ohio

Director of Purchases
National Oil & Supply Co.
33 South Jefferson Road
Whippany, New Jersey 07980

Director of Purchases
National Electric Welding Machines
1846 North Trumbull
Bay City, Michigan 48706

Director of Purchases
Natural Gas Pipeline Co.
Box 157
St. Elmo, Illinois

Director of Purchases
Neptune Meter Company
55-30 46th Street
Maspeth, L.I., New York
11378

Director of Purchases
North Central Public Service Co.
1930 Commerce Rapids Blvd.
Coon Rapids, Minnesota 55433

Director of Purchases
Northronics Division
Northrop Corporation
NBR 1 Research Park
Palos Verdes Peninsula, Cal.

Office of the President
Ohio Oscillator Company
1116 Ridge Avenue
Pittsburgh, Pa. 15233

Director of Purchases
Oil-Dyne, Inc.
334 43rd Ave. Northeast
Minneapolis, Minnesota 55412

Director of Purchases
Oilgear Company
1560 W. Pierce Street
Milwaukee, Wisconsin 53204

Director of Purchases
Oil Well Supply Co.
P. O. Box 47d
Dallas 21, Texas

Director of Purchases
Olin Corporation
P. O. Box 3896
Lake Charles, Louisiana

Director of Purchases
Olin Corporation
P. O. Box 736
Sedalia, Missouri 65301

Office of the President
Orbit Valve Company
P. O. Box 3180
Little Rock, Arkansas 72203

Office of the President
Ore-Lube Corporation
126-06 14th Avenue
College Point, New York

Office of the President
Orlando Armature Works, Inc.
609 West Central Avenue
Orlando, Florida 32801

MCL000077

Office of the President
Osborn Manufacturing Co.
5401 Hamilton Avenue
Cleveland, Ohio 44114

Director of Purchases
Owens Illinois, Inc.
Glass Container Division
P. O. Box 26303
New Orleans 26, Louisiana

Director of Purchases
Owens Corning Fiberglas Corp.
Ashton, Rhode Island

Director of Purchases
Pacific Press & Steel
714 Walnut Street
Mt. Carmel, Illinois

Director of Purchases
J. M. Fair Company
c.o Oklahoma Tire & Supply Co.
Star Route
Vian, Oklahoma

Director of Purchases
Pan American Petroleum Corp.
Security Life Building
Denver, Colorado 80202

Director of Purchases
Pan American World Airways
Guided Missiles Range Division
MIDS Project P. O. Box 670
Las Vegas, Nevada 89101

Director of Purchases
Pan American Petroleum Corporation
Powell, Wyoming 82435

Director of Purchases
Pak-Tex Lubricants
P. O. Box 31
Kilgore, Texas 75662

Office of the President
Park Heating & Air Conditioning
1146 Maple Avenue
La Grange Park, Illinois 60525

Office of the President
Pennsylvania Engineering Corp.
526 South Jefferson Street
New Castle, Pa. 16103

Director of Purchases
Park-Ohio Industries, Inc.
Ohio Crankshaft Division
3900 Harvard Avenue
Cleveland, Ohio 44105

Director of Purchases
Pennsylvania Pump & Compression Company
Bankhill Drive
Easton, Pennsylvania 18042

Office of the President
Perfection Tool & Metal Heat Treating Company
1756 West Hubbard
Chicago, Illinois

Office of the President
Petrotomics Company
P. O. Drawer 2450
Casper, Wyoming 82601

Director of Purchases
Phelps Dodge Corporation
300 Park Avenue
New York 22, New York

Director of Purchases
Pittsburgh-De Moines Steel Co.
Neville Island
Pittsburgh, Pa. 15225

Director of Purchases
Polytechnic Institute of Brooklyn
333 Jay Street
Brooklyn, New York 11201

Office of the President
Power Braulics Nielsen
550 South Columbus Avenue
Mt. Vernon, New York 10550

Office of the President
Power Piping Co.
829 Beaver Avenue
Pittsburgh, Pa. 15233

Office of the President
Power Transmission Co.
1245 West Fulton
Chicago, Illinois 60607

Office of the President
Price Brothers Company
4701 White Lake Road
Clarkston, Michigan

Office of the President
Production Tool Specialty Co.
5116 North River Road
River Grove, Illinois

Director of Purchases
Pullman-Standard Division
Pullman, Inc.
Butler, Pennsylvania

Director of Purchases
Racine & Vickers Armstrongs
1900 Albert Street
Racine, Wisconsin 53404

Director of Purchases
Ralston Purina Company
Olive and Eudlid Streets
Bloomington, Illinois 61701

Director of Purchases
Ralston-Purina Company
223 West 63rd Street
Shreveport, Louisiana

MCL000078

Director of Purchases
Ralston Purina Company
P. O. Box 1725
St. Joseph, Missouri 64507

Director of Purchases
Ralston Purina Company
Circleville, Ohio 43113

Director of Purchases
Ralston Purina Company
1501 East Fourth Street
Fort Worth, Texas 76101

Director of Purchases
Ralston Purina Co.
3815 Hiawatha Avenue S.
Minneapolis, Minn. 55406

Director of Purchases
Ralston Purina Company
835 South 8th Street
St. Louis, Missouri 63102

Director of Purchases
Ralston Purina Company
P. O. Box 3651
West Jackson Station
Jackson, Mississippi 39207

Director of Purchases
Ralston Purina Company
P. O. Box 26108
Oklahoma City, Oklahoma 73126

Director of Purchases
Reactive Metal Products
Div. Howmet Corporation
595 Benetone Road
White Hall, Michigan 49461

Director of Purchases
Reading Tube Division
Reading Industries, Inc.
P. O. Box 12[illegible]
Reading, Pa. 19603

Director of Purchases
Refinery Engineering Company
P. O. Box 196
Hallock, Minnesota 56728

Director of Purchases
Republic Supply Company
2198 East Spring Street
Long Beach, California 90806

Office of the President
Rezite Casting Company
4535 Pope
St. Louis, Missouri

Office of the President
Rodman Supply Company
P. O. Box 591
Odessa, Texas

Director of Purchases
Rust Engineering Company
P. O. Box 549
Canton, Ohio 44701

Director of Purchases
Ryan Industries
888 East 70th Street
Cleveland 3, Ohio

Director of Purchases
Salem-Brosius, Inc.
Box 2222
Pittsburgh, Pa. 15230

Office of the President
Santa Fe Springs Mfg. Co.
11850 E. Florence
Santa Fe Springs, Cal. 90670

Director of Purchases
Saveway Super Service Stations, Inc.
2424 South Highland
Las Vegas, Nevada 89102

Director of Purchases
Sawyer Machine Works
P. O. Box 3248
Eugene, Oregon 97402

Director of Purchases
Spevill Mfg. Company
P. O. Box 1820
Waterbury 91, Connecticut

Director of Purchases
Sequois Refining Corp.
P. O. Drawer
Ponca City, Oklahoma 74601

Director of Purchases
Shell Chemical Corporation
P. O. Box 1451
Ventura, California

Director of Purchases
Shell Chemical Company
100 Bush Street
San Francisco, California

Director of Purchases
Signal Oil and Gas Company
P. O. Box 17126
Fay Station
1010 Wilshire Blvd.
Los Angeles 17, California

Office of the President
SKE Die Casting Co.
2200 Fourth Street
Berkeley, California 94710

Director of Purchases
Smith and Loveless, Inc.
Lenexa, Kansas

Office of the President
Willard Smith, Inc.
3155 Elliott Avenue
Seattle, Washington 98121

MCL000079

Office of the President
St. Paul Ammonia Products, Inc.
P. O. Box 418
South St. Paul, Minnesota

Director of Purchases
Chevron Chemical Company
Oronite Division
P. O. Box 229
Belle Chasse, Louisiana

Director of Purchases
Pan American Petroleum Corp.
P. O. Box 351
Alvin, Texas

Director of Purchases
Pan American Petroleum Corp.
P. O. Box 1510
Fort Worth, Texas

Director of Purchases

Chevron Oil Company

Red Wash Field, Utah

Director of Purchases
Stewart Warner Corporation
Southwind Division
1514 Drover Street
Indianapolis, Indiana 46221

Director of Purchases
Southern Counties Gas Co.
of California
1801 South Atlantic Boulevard
Monterey Park, California 91754

Office of the President
Strite Anderson Company
7585 Viron Road, N.E.
Minneapolis, Minnesota 55432

Director of Purchases
Avisun Corporation
1608 Walnut Street
Philadelphia, Pa. 19103

Director of Purchases
Sun Oil Company
DX Division
500 Vaughan Bldg.
Midland, Texas 79701

Director of Purchases
Sunset International
Petroleum Corporation
8920 Wilshire Boulevard
Beverly Hills, California

Director of Purchases
Tanner Manufacturing Company
Wesleyville
P. O. Box 7309
Erie, Pennsylvania 16510

Office of the President
Tate Engineering Company
600 West West Street
Baltimore, Maryland 21230

DIRECTOR OF PURCHASES
Office of the President
Taylor-Winfield Corporation
1070 Tahoning Avenue
Warren, Ohio

Director of Purchases
Tennessee Colors Division
Tennessee Chemicals Inc.
P. O. Box 51
Memphis, Tenn. 38101

Director of Purchases
Tenneco Chemicals, Inc.
Hayden Division
3801 Kirby Drive
Houston, Texas

Director of Purchases
University of Tennessee
Box 4243
Knoxville, Tennessee

Director of Purchases
Texas Pacific Oil Co.
Production Operators
P.O. Box 113
McKittrick, California

Director of Purchases
Texas Steel Company
3901 Hemphill Street
Ft. Worth, Texas 76110

Director of Purchases
McDowell-Wellman Engineering Co.
113 St. Clair Avenue, N.E.
Cleveland, Ohio 44114

Director of Purchases
Thiokol Chemical Corporation
Elkton Division
Elkton, Maryland

Director of Purchases
Tip Top Products, Inc.
1508 Burt Street
Omaha, Nebraska

Office of the President
Telo Incorporated
3401 S. Pullman
Santa Ana, California

Director of Purchases
United States Steel Corp.
Taylor-Winfield
Warren, Ohio 44482

Director of Purchases
Union Carbide Corporation
Linde Division
P. O. Box 307
Republic, Michigan

Director of Purchases
Union Carbide Corporation
Linde Division
Crows Mill Road
P. O. Box 127
Keasbey, New Jersey 08832

Director of Purchases
Union Oil of California
Route 1, Box 60
Loveladv, Texas

MCL000080

Mr. A. P. Moseley
Union Oil Company of California
P. O. Box 447
Clay City, Illinois 62824

Director of Purchases
Uniroyal Incorporated
Uniroyal Chemical Division
Elm Street
Naugatuck, Connecticut 06770

Director of Purchases
United Constructions
2444 Wilshire Blvd.
Union Bank Bldg.
Santa Monica, California

Director of Purchases
United Airlines, Inc.
Hangar 55
Newark Airport
Newark, New Jersey

Director of Purchases
United Gas Pipeline Company
P. O. Box 1407
Shreveport, Louisiana

Director of Purchases
United States Steel Corporation
Gary, Indiana

Director of Purchases
United States Steel Corp.
U.S. Steel Supply Co. Division
208 South LaSalle Street
Chicago 4, Illinois

Director of Purchases
United States Steel Corp.
Fairless Works
Fairless Hills, Pa. 19030

Director of Purchases
United States Steel Corporation
Dravosburg, Pennsylvania

Director of Purchases
United States Steel Corp.
Johnstown, Pennsylvania

Director of Purchases
United States Steel Corporation
Carrie Furnace
Rankin, Pennsylvania

Director of Purchases
United Engineering & Foundry Co.
14th and Grace Street
Canton, Ohio 44705

Director of Purchases
United Gas Pipeline Company
P. O. Box 1407
Shreveport, Louisiana

Duplicate

Office of the President
United Suffolk Corporation
56 Toledo Street
Farmingdale, New York 11735

Office of the President
The United Tool & Die Company
1031 New Britain Avenue
West Hartford, Conn. 06107

Director of Purchases
Universal Cyclops Steel Corp.
Universal Division
Bridgeville, Pa.

Mr. Charles E. Unsworth
8905 Acacia Lane
Shreveport, La. 71108

Director of Purchases
United States Pipe & Foundry Co.
P. O. Box 2631
Birmingham, Alabama

Director of Purchases
United States Army
Hill Field, Utah

Director of Purchases
National Advisory Committee
for Aeronautics
Cleveland Airport
Cleveland, Ohio

Director of Purchases
United States Government
Craig Air Force Base
3615th Air Base Group
Craig AFB, Alabama

Director of Purchases
United States Pipe & Foundry Co.
East Pearl Street
Burlington, New Jersey 08016

Director of Purchases
Viking Pump Company
Cedar Falls, Iowa 50613

Director of Purchases
Warren Petroleum Corporation
P. O. Box 1589
Tulsa, Oklahoma

Director of Purchases
Warren Petroleum Corporation
P. O. Box 330
Kennedy, Texas

Director of Purchases
Warren Petroleum Corporation
P. O. Box 330
Kennedy, Texas

Director of Purchases
Warriner Hermetics Co.
5936-48 Eden Drive
P. O. Box 76111
Ft. Worth, Texas 76111

Office of the President
Water Gremlin Co.
4570 Otter Lake Road
White Bear Lake, Minn. 55110

Director of Purchases
Weskem Corporation
P. O. Drawer 790
Borger, Texas

Director of Purchases
Western Electric Co.
Aurora, Illinois 60507

Director of Purchases
Western Offshore Drilling
And Exploration Company
Division of Pike Corporation
12623 East Imperial Hwy.
Santa Fe Springs, Cal. 90670

Office of the President
Western Sintering Co., Inc.
2621 Stevens Drive
Richland, Washington 99352

Director of Purchases
Westinghouse Electric Corporation
Mfg. & Repair Division
1132 Seneca Street
Buffalo 10, New York

Director of Purchases
Westinghouse Air Brake Division
Westinghouse Air Brake Company
Wilmerding, Pa.

Director of Purchases
Weyerhaeuser Company
Cosmopolis, Washington

Director of Purchases
Willard Smith, Inc.
3155 Elliott Avenue
Seattle, Washington 98121

Director of Purchases
Wilmington Medical Center, Inc.
P. O. Box 1668
Wilmington, Delaware 19899

Director of Purchases
Wilmington Supply & Sales
1275 Alameda
Wilmington, California 90744

Office of the President
Wycon Chemical Company
P. O. Box 1087
Colorado Springs, Colorado

nlc

MCL000082

Thermintic

Director of Purchases
Advance Finishing Company
1301 South Thornton
Dalton, Georgia 30720

Director of Purchases
A & E Plastic Pak Co.
800 McGarry Street
Los Angeles 31, California

Director of Purchases
Allied Chemical Company
King of Prussia, Pennsylvania

Director of Purchases
Amex Spec. Metals
P. O. Box 1748
Parkersburg, West Virginia 26101

Director of Purchases
[redacted]

Director of Purchases
Argus Chemical Corporation
Div. of Witco Chemical Co.
633 Court Street
Brooklyn, New York 11231

Director of Purchases
Arsynco, Inc.
P. O. Box 8
Carlstadt, New Jersey 07072

Director of Purchases
Atlantic Shippers, Inc.
P. O. Box 479
Morehead City, N.C. 28557

Director of Purchases
Blanke Mechanical Contractors, Inc.
2112 Mistletoe Boulevard
Fort Worth, Texas 76110

Director of Purchases
Bond Baking Co., Division
General Host Company
25th and McKean Street
Philadelphia, Pa. 19145

Director of Purchases
Brown Bros. Plastic Fabricators
1055 Atlas Peak Road
Napa, California 94558

Director of Purchases
Buell Cabinet Company
1027 North Monroe
Kansas City, Missouri 64120

Director of Purchases
Burhans-Sharpe Company
P. O. Box 3906
Seattle, Washington 98124

Director of Purchases
Butler Manufacturing Co.
900 Sixth Avenue, N.W.
Minneapolis, Minnesota 55414

Director of Purchases
Callahan Mining Co.
Harberside, Maine 04642

Director of Purchases
Cargill, Inc.
Pensacola, Florida

Director of Purchases
A. B. Chance Company
210 North Allen Street
Centralia, Missouri

Director of Purchases
Chef's Best Food
3122 20th Street
Sacramento, California 95820

Director of Purchases
Chemetron Corporation
Chemical Group
P. O. Box 2166
Huntington, W. Va. 25722

Director of Purchases
Chem. Fleur, Inc.
209 Pulaski
Newark, New Jersey

Director of Purchases
Chemetron Corporation
Chemicals Group
471 Howard Avenue
Holland, Michigan 49424

Director of Purchases
Classic Textiles
6101 Buchanan Place
W. New York, New Jersey 07093

Director of Purchases
Coon Company
Ravena, New York

Director of Purchases
Continental Can Company
720 Laurel Street
P. O. Box 1137
Reading, Pennsylvania 19602

Director of Purchases
Cotter Corporation
NSL
P. O. Box 751
Canon City, Colorado 81212

Director of Purchases
CPC International
Argo, Illinois

Director of Purchases
Dover Corporation
Groen Manufacturing Division
Elk Grove Village, Illinois

[illegible]

MCL000083

Director of Purchases
Dravo Corporation
Neville Island
Pittsburgh, Pa. 15225

Director of Purchases
Dunbar Stanley Furnishing
P. O. Box 1749
Charlotte, North Carolina 28203

Director of Purchases
East Alcoa Aluminum
Frederick, Maryland

Office of the President
E. Edelmann & Company
2332 Logan Boulevard
Chicago, Illinois 60647

Director of Purchases
Farrel Corporation
148 Maple Street
Ansonia, Connecticut 06401

Director of Purchases
Flexonics Company
Div. of U.O.P.
300 East Devon
Bartlett, Ill. 60103

Director of Purchases
Foremost Chemical Company
Oakland, California

Director of Purchases
C. J. Portman Mfg. Co.
Iron, Minnesota

Director of Purchases
C. J. Portman Mfg. Co.
P. O. Box 37
Iron, Minnesota

Director of Purchases
Fowler Machine & Engineering
2805 South Halladay
Santa Ana, California 92705

Office of the President
Gass Processors Company
Brea, California

Director of Purchases
Gaylord Container Company
Div. of Crown Zellerbach Co.
708 South Howard Avenue
Tampa, Florida 33606

Director of Purchases
General American Research
1669 Marshall Drive
Des Plains, Illinois

Director of Purchases
Geo Space Corporation
5803 Glenmont Drive
Houston, Texas 77036

Director of Purchases
Gray Chemical Company
61 Grove Street
Gloucester, Mass. 09130

Director of Purchases
Harbo, Inc.
205 East 8th Street
St. Paul, Minnesota 55101

Director of Purchases
Heat Engineering & Supply, Inc.
213 East Valley Boulevard
San Gabriel, California 91776

Director of Purchases
Holy Cross Hospital
4777 East Outer Drive
Detroit, Michigan 48234

Director of Purchases
Houdaille Ind., Inc.
2660 East Grand
Detroit, Michigan 48211

Director of Purchases
Howard Johnson
309 Battles Street
Brockton, Mass. 02401

Director of Purchases
Industrial Tech.
142 Nevada Street
El Segundo, California

Director of Purchases
Imsont Company
P. O. Box 3938
Anaheim, California 92803

Director of Purchases
International Harvester
1401 Perkins Avenue
Waukesha, Wisconsin 53186

Director of Purchases
Jersey Maid Milk Products
1040 West Slauson
Los Angeles, California 90044

Director of Purchases
Kaiser Alum. & Chem. Sales, Inc.
6620 W. Dakin Street
Chicago, Illinois 60634

Director of Purchases
Kellogg Company
P. O. Box 3866
96th & P Streets
Omaha, Nebraska 68103

Director of Purchases
Koppers Company
Research and Development
440 College Park Drive
Monroeville, Pennsylvania 15146

MCL000084

Director of Purchases
Lanpe Company
Box 308
Bloomfield, Colorado 80020

Director of Purchases
Leslie Company
401 Jefferson Road
Parsippany, N.J. 07054

Director of Purchases
Litton Business Systems
550 Central Avenue
Orange, New Jersey 07051

Office of the President
Marsh Instrument Company
3501 Howard Street
Skokie, Illinois 60076

Director of Purchases

Mead Container

Spartanburg, S. C.

Director of Purchases
Menasha Corporation
Air Lake Industrial Park
Lakeville, Minnesota 55044

Director of Purchases
Menasha Corporation
P. O. Box 367
Neenah, Wisconsin 54956

Director of Purchases
National Pibbit
General Office
P. O. Box 428
Mansfield, Ohio 44901

Director of Purchases
National Wax Company
3650 Touhy
Skokie, Illinois 60076

Director of Purchases
Nicolet Ind.
Ford & Washington Streets
Norristown, Pa.

Director of Purchases
Norwick Standard Chem. Co. of California
7225 Paramount Boulevard
Pico Rivera, California 90660

Director of Purchases

Northern Natural Gas Co.

Wichita, Kansas

Director of Purchases

Omega Rubber Products

Fort Wayne, Indiana 46808

Director of Purchases
Oregon Metallurgical Corp.
P. O. Box 580-T
Albany, Oregon 973210

Director of Purchases
Pan American Packaging
2828 Brannon
St. Louis, Missouri 63139

Director of Purchases
Pateo Products, Div.
C. J. Patterson Co.
3947 Broadway
Kansas City, Missouri

Director of Purchases
Permaform Company
1290 Third Avenue
New Kensington, Pa. 15068

Director of Purchases
Pillsbury Co.
Pillsburg Building
Minneapolis, Minnesota

Director of Purchases
Pioneer Container
333 E. Pioneer Road
Cedarburg, Wisconsin 53012

Director of Purchases
Pipeline Service
3240 Manheim Road
Franklin Park, Ill.

Director of Purchase

Pittsburgh Plate Glass Company

Lake Charles, Louisiana

Director of Purchases
Process Services, Inc.
1011-3/4 West 190 Street
Gardena, California 90247

Director of Purchases
Process Control Corporation
Peachtree Dekalb Airport
Chamblee, Georgia 30340

Director of Purchases
Publishers Printing Co., Inc.
P. O. Box 1494
Louisville, Kentucky 40201

Director of Purchases
P.V.T. Incorporated
P. O. Box 36272
Houston, Texas 77036

Director of Purchases
Quaker Chemical Company
14301 Birwood
Detroit, Michigan 48238

Director of Purchases
Red Point Corporation
P. O. Box 107
Burbank, California 91503

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Director of Purchases
Schildwachter Oil Company
1400 Ferris Place
Bronx, New York 10461

Director of Purchases
Seaboard Corporation
3950 North Holton
Milwaukee, Wisconsin 53212

Director of Purchases
Allied Processing Company
2607 Ogden Street
Chicago, Illinois 60608

Director of Purchases
American Oil Company
Div. Standard Oil of Indiana
Whiting, Indiana

Director of Purchases
Steaman Electronics
1201 Sherman Bldg.
Washington, D. C. 20005

Director of Purchases
Stepan Chemical Company
Industrial Chemicals Division
Millsdale, Illinois

Director of Purchases
Stepco Company
P. O. Box 9836
El Paso, Texas 79988

Director of Purchases

Stuckeye, Inc.

Eastman, Georgia

Director of Purchases
Sun Shipbuilding & Dry Dock
P. O. Box 438
Chester, Pennsylvania 19013

Director of Purchases
Tenneco Oil Company
c/o St. Mary Chemical Co.
Highway 90 East
Morgan City, Louisiana

Director of Purchases
Tennsco, Inc.
Packaging Corporation
Burlington, Wisconsin

Director of Purchases
Textstream Corporation
322 Hughes Street
Houston, Texas 77011

Director of Purchases

Thermotics, Inc.

Pellows, California

Director of Purchases
Union Carbide Corporation
River Road
Bound Brook, N. J. 08805

Director of Purchases
U. S. Air Force
Research Labs, Bldg. 1105-A
Hanscom Field
Bedford, Mass. 01730

Director of Purchases
West Virginia Pulp &Paper Co.
407 Decatur Street
Sandusky, Ohio 44870

Office of the President
Warwick Electronics
7400 Lehigh
Niles, Illinois 60648

Director of Purchases
West Virginia Pulp & Paper Co.
299 Park Avenue
New York, New York 10017

Director of Purchases
Westvaco Corporation
3301 West 47th Place
Chicago, Illinois 60632

Director of Purchases

Wheeling Steel Corporation

Jamesburg, New Jersey

Director of Purchases
Wheeling Corrugating Company
Jamesburg, New Jersey

MCL000086

Hydraulic Shockers

Office of the President
Ajax Hardware Company
69 Stengel Avenue
Newark, New Jersey

Office of the President
Alloy Die Casting
Buena Park, California

Office of the President
Aluminum Forge
Santa Ana, California

Aluminum Die
Los Angeles, California
Attn: Office of the President

Director of Purchases
Western Electric
Cicero, Illinois

Director of Purchases
Amforge, Inc.
1222 W. 119th Street
Chicago, Ill. 60643

Director of Purchases
Anaconda, Inc.
Columbia Falls, Montana

Director of Purchases
Arthur C. Withrow Co.
5511 District Blvd.
LosAngelps, Calif. 90022

Director of Purchases
Atlantic Steel Co.
1365 Mcoaslin St. N.W.
C/O Mill Storeroom
Atlanta, Ga. 30301

Director of Purchases
Atlas Foundry & Mach. Co.
3021 S. Wilkeson
Tacoma, Wash. 98411

Office of the President
Bradford Marine
3051 State Rd. 84
Ft. Lauderdale, Fla. 33312

Office of the President
Burda Metals Company
Hialeah, Florida

Director of Purchases
Buss Machine Works, Inc.
81st & Eldon Streets
Holland, Michigan 49423

Office of the President
Canton Cotton Mills
Canton, Georgia 30114

Director of Purchases
Case Inst. of Tech.
Cleveland, Ohio

Officeof the President
Central Metals Company
950 Marietta Street
Atlanta, Georgia 30318

Office of the President
CE Refractories
Vandalia, Missouri

Director of Purchases
Chemetron Corporation
Chemical Group
P. O. Box 2166
Huntington, W. Va. 25722

Director of Purchases
University of Chicago
Chicago, Illinois

City Controller
Dept. of Public Works &
Sanitation
1550 Erskine Street
Detroit, Michigan 48226

Office of the President
City Galvanizers
820 North Russell
Portland, Oregon 97227

Director of Purchases
Cleveland Graphite Bronze
Div. of Clevite Corporation
16800 St. Clair
Cleveland, Ohio 44110

Director of Purchases
Continental Aviation &
Aircraft Company
1510 Laskey Road
Toledo, Ohio 43612

Director of Purchases
Continental Can
P. O. Box 1419
Clarksburg, W. Va. 26301

Director of Purchases
Copperweld Steel Co.
Ohio Seamless Tube Div.
Shelby, Ohio

Director of Purchases
Dana Corporation
Churubusco, Indiana

Director of Purchases
Delta Piping Company
C/O Reynolds Metals
49th & 1st Ave.
McCook, Illinois

Office of the President
Dresser Magcobar
C/O J. Wiggins
Pamco
Vernal, Utah

Office of the President
Dryad Die Cast
Manjester

Office of the President
Dryad Die Cast
Manchester,
New York

MCL000087

Office of the President
BB & C, Inc.
P. O. Box 294
San Ramon, Calif. 94583

Office of the President
Electronic Assistance Corp.
Red Bank, New Jersey 07701

Director of Purchases
Philco Corporation
No. Wal.
Borger, Texas

Office of the President
Fram Corporation
Box 50096
Tulsa, Oklahoma 74150

Director of Purchases
General Electric
210 Columbian Avenue
Rutland, Vermont 05701

Director of Purchases
General Motors
Fisher Body Division
2525 West 4th Street
Ontario, Ohio 44906

Director of Purchases
Gulf Oil Corporation
Stillwater, Oklahoma

Director of Purchases
H. M. Harper Company
8200 Lehigh Avenue
Morton Grove, Ill. 60053

Director of Purchases
Harvey Aluminum
Lewisport, Kentucky

Office of the President
H - H Machine Tool
Dayton, Ohio

Director of Purchases
HPM Company
Div. of Koehring Co.
Marion Road
Gilead, Ohio

Director of Purchases
Ironton Malleable
Div. of Dayton Malleable
Iron Co.
2618 So. 3rd Street
Iront, Ohio 45638

Director of Purchases
ITT Blackburn Company
1525 Woodson Road
St. Louis, Missouri

Office of the President
Jade Company
3063 Philmont Avenue
Bethayres, Pa. 19006

Office of the President
Kasper Foundry Co.
Rt. 20 & B & O Tracks
Elyria, Ohio 44035

Office of the President
Larsen Powder Pl.
Lakeland, Florida

Director of Purchases
McGraw Edison Co.
Line Mat'l. Industries
Power Systems Division
12th & Madison Avenues
So. Milwaukee, Wisc. 53172

Office of the President
Merrill-Stevens
Miami, Florida

Director of Purchases
Mitsubishi International Corp.
277 Park Avenue
New York, New York

Director of Purchases
Paul-Munroe Hydraulics, Inc.
8341 E. Slauson Ave.
Pico Rivera, Calif. 90660

~~Office of the President~~
Mueller Company

Office of the President
Mueller Company
Chattanooga, Tennessee

Natural Gas Pipeline
Box 157
Hammond, Ill.
Attn: Director of Purchases

Director of Purchases
National Oil & Chemical
Hamilton, Ohio

Norman Engineering Company
5899 Venice Blvd.
Los Angeles, Calif.
Attn: Director of Purchases

Director of Purchases
Norris Industries
5215 S. Boyle Avenue
Los Angeles, Calif. 90058

Director of Purchases
Ohio Steel Foundry
W. 4th Street
Lima, Ohio 45802

Director of Purchases
Orange City Diecasting
1367 No. Santiage Ave.
Santa Ana, Calif. 92705

Director of Purchases
Owens-Ill. Glass Co.
Lakeland, Florida

Director of Purchases
Owens-Illinois Glass Co.
P. O. Box 220
Charlotte, Mich. 48813

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Director of Purchases
Owens-Illinois
Glass Container Division
Bridgeton, New Jersey

Director of Purchases
Paramount Die Casting Co.
Talon Div. of Rextron
Freeman-Field Industrial
Seymour, Indiana

Mr. Ralph M. Parsons
P. O. Box 1449
Pascogoula, Miss. 39567

Director of Purchases
Permanent Castings, Inc.
P. O. Box 191
285 Shady Grove Road
Hot Springs, Arkansas 71901

Director of Purchases
Phillips Petroleum
2000 E. Sepulveda Blvd.
Wilmington, California

Director of Purchases
Pillsbury Company
C/O Palmer Midstream
Pt. Arthur, Texas

Office of the President
Planet Corporation
2 Office Park
Birmingham, Ala. 35223

Office of the President
PTX Corporation
1345 N. Tenth Street
San Jose, Calif. 95112

Office of the President
Quality Castings Company
1225 N. Main Street
Orrville, Ohio 44667

Office of the President
Quinn Equipment & Supply Co.
P. O. Box 1006
Houston, Texas 77001

Director of Purchases
Ralston Purina Company
P. O. Box 356
Mechanicsburg, Pa. 17055

Director of Purchases
Ralston Purina Company
P. O. Box 36
Hager City, Wisc. 54014

Office of the President
Ramm Products Company
4436 Walker
Wayne, Michigan 48184

Office of the President
Remco Hydraulics
934 S. Main Street
Willits, Calif. 95490

Director of Purchases
Ritter Pfaudler
400 West Avenue
Rochester, N. Y. 14611

Office of the President
Ryan Industries
4800 Almond Avenue
Louisville, Ky. 40214

Office of the President
Santa Fe Marine
Pt. Hueneme, Calif.

Office of the President
Senago Company
Dover, Ohio

Office of the President
S. K. S. Die Casting Co.
737-739 Allston Way
Berkeley, Calif. 94710

Office of the President
North American Foundry
St. Peters, Missouri

Office of the President
Spartains Hydraulics
S. Houston, Texas

Director of Purchases
Chevron Service
El Paso, Texas

Director of Purchases
Standard Oil
Los Angeles, California

Director of Purchases
Standard Oil of California
225 Bush Street
San Francisco, California

Office of the President
St. Louis Diecasting
Holland, Michigan

Office of the President
St. Louis Diecasting Corp.
201 Rock Industrial Park Dr.
Bridgeton, Missouri 63042

Office of the President
Swick-Guth Company
P. O. Box 498
McPherson, Kansas

Office of the President
J. T. Thorpe, Inc.
948 East 2nd Street
Los Angeles, Calif. 90012

Office of the President
Toledo Engineering
C/O Guardian Industries
1208 Wil Carleton Drive
Carleton, Michigan

Office of the President
Tram World Drilling Co.
Houston, Texas

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Director of Purchases
True Trace
Div. of Textron
222 N. Vincent Avenue
Covina, California

Office of the President
Uhrden, Inc.
Sugar Creek, Ohio 44681

Director of Purchases
Unitcast Division
Midland-Ross Corporation
Box 307
Toledo, Ohio 43601

Office of the President
United Tool
W. Hartford, Conn.

Office of the President
U. S. Industries
6469 W. 65th Street
Chicago, Illinois 60638

Director of Purchases
USS Agri.-Chem.
Crystal City, Missouri

Office of the President
Warel Mfg.
9230 Denton Drive
Dallas, Texas 75220

Office of the President
Walmet Corporation
Pleasant Ridge, Mi. 48069

Office of the President
Waupaca Foundry, Inc.
Waupaca, Wisc. 54981

Office of the President
Western Overhead Door
P. O. Box 02204
Portland, Oregon 97202

Office of the President
Melpar, Inc.
7700 Arlington Blvd.
Falls Church, Va. 22046

Director of Purchases
Office of the President
Westinghouse Air Brake
Pittsburgh, Pa.

Office of the President
Universal Manufacturing
Mendenhall, Ms.

Director of Purchases
Finance Office
Edwards Air Force Base,
California

Director of Purchases
Tooele Army Depot
Tooele, Utah

Director of Purchases
USAF SPO
Huntsville, Alabama

Director of Purchases
USAF
Patrick AFB, Florida

Director of Purchases
Wheeling Pittsburgh Steel
Corporation
Steubenville Plant
So. Division
Mingo Junction, Ohio

Director of Purchases
Wheeling Steel Corporation
Steubenville Plant
No. Division
Steubenville, Pa.

Director of Purchases
Wheeling Pittsburgh Steel
Corporation
Steubenville Plant
No. Division
Steubenville, Ohio

Office of the President
Wichita Falls Foundry &
Machine Co., Inc.
P. O. Box 1150
Wichita Falls, Texas 76308

Office of the President
Wieman Pump & Sup.
Pittsburgh, Pa.

Office of the President
Wyatt & Kipper Fabricators
3214 16th Ave. S. W.
Seattle, Wash. 98134

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Office of the President
Beautex Corporation

Office of the President
Beutex Corporation
E. Chicago, Indiana

Director of Purchases
Continental Can
Carteret, New Jersey

Director of Purchases
W. R. Grace
Dewey & Almy Chem. Div.
So. Independence Road
So. Action, Mass.

Office of the President
Int. Pipe & Ceramics
Mankato, Kansas

Office of the President
Ramshaw Photo, Inc.
Detroit, Michigan

Director of Purchases
American Alum. Casting Co.
320-330 Coit Street
Irvington, N. J. 07111

Office of the President
Catalina Divers
Avalon, California

Office of the President
Cerro Copper & Brass Co.
Mowry Landing Rd.
Newark, Calif. 94560

Office of the President
CF & I Steel Corp.
Minnequa, Colorado

Director of Purchases
Engineering Division
P. O. Box 1118
Chrysler Corporation
Detroit 31, Michigan

Office of the President
Dairyland Power
Genoa, Wisconsin

Office of the President
Divers Equipment
Kans

Office of the President
Divers Equipment
Kansas City, Missouri

Office of the President
Duval Corporation
1906 First City National
Bank Building
Houston, Texas 77002

Office of the President
Duval Corporation
Sulphur Division
P. O. Box 1507
Fort Stoddard, Texas 79735

Director of Purchases
Fiberglass Ohio
Winona, Minnesota

Director of Purchases
Ford Motor Company
Detroit, Michigan

Director of Purchases
Hitchcock Corporation
Macon, Georgia

Director of Purchases
Kawneer Company
Jonesboro, Georgia

duplicate

Director of Purchases
National Tube Company
Lorain, Ohio

Director of Purchases
National Electric Weld
Bay City, Michigan

Director of Purchases
Owens Corning Fiberglass
Bayonne, New Jersey

Director of Purchases
Tote Systems Division
785 South Street
Beatrice, Nebraska 68310

Di-Electrics start here: d

Director of Purchases
Standard Transformer Company
Division of American Gage &
Machine Company
Warren, Ohio

Mr. John Fenwick
Westinghouse
Phoenix M & P
1825 E. Jefferson St.
Phoenix, Arizona

Mr. Ken Tyson
Westinghouse
Bloomington, Ind.

Mr. T. K. Sloat
Westinghouse
469 Sharpsville Avenue
Sharon, Pennsylvania

Mr. Al Kaiser
Westinghouse Elec.
Box 920
Hwy. 58 W.
S. Boston, Va. 24592

Director of Purchases
York Capacitor Corp.
104 S. 4th St.
Brooklyn, N. Y.

(di-electrics
letter)

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Mr. Abe Kalstein
Aerovox Corporation
740 Belleville Avenue
New Bedford, Massachusetts

Mr. J. Orum
Allis Chalmers Mfg. Co.
Columbus & Prevel Avenues
Pittsburgh, Pennsylvania

Director of Purchases
American Rectifier Corporation
116-15 15th Avenue
College Point 56, New York

Dr. Eunice Moore
Electrical Utilities Company
[illegible], Illinois

Dr. Eunice Moore
Electrical Utilities Company
2427 St. Vincent Street
LaSalle, Illinois

Mr. Ray Clark
Electronic Components, Inc.
29 East Sixth Street
Patterson, New Jersey

Mr. J. L. Wilkerson
Esso Manufacturing Company
P. O. Box 1039
Greenville, Texas

Mr. W. Robinson
Cornell-Dubilier
Electronic Division
New Bedford, Massachusetts

Director of Purchases
Federal Pacific Electric Co.
1565 Coleman Road
Santa Clara, California 95050

Director of Purchases
Federal Pacific Electric, Inc.
50 Paris Street
Newark, New Jersey

Mr. Ted Reback
Federal Pacific Electric Co.
1200 Piper Drive
Milpitas, California 95035

Mr. Jim Kinney
Power Transformer Department
General Electric Company
Rome Plant
Lavender Drive
Rome, Georgia

Mr. Ed Raab
General Electric Company
1 Plastic Avenue
Pittsfield, Massachusetts

Mr. Larry Barker
General Electric Company
John Street
Hudson Falls, N.Y. 12839

Mr. Ray Harris
Hevi-Duty Electric Division
Solar Basic Industries
P. O. Box 268
Goldsboro, North Carolina 27530

Mr. Frank Bingham
ITE Circuit Breaker Company
1900 Hamilton Avenue
Philadelphia, Pennsylvania 19130

Mr. Robert Vaught

Mallory Capacitor Company

Waynesboro, Tennessee

Mr. David Winter
Moloney Electric Company
5390 Bircher & Kingshighway
St. Louis, Missouri

Director of Purchases
Niagara Transformer Corporation
1747 Dale Road
P.O. Box 23
Buffalo 25, New York

Mr. O. M. Oliver
Pacific Transformer Company
2201 Bay Road
Redwood City, California 94063

Mr. Richard Kellogg
H. K. Porter Company, Inc.
Delta Star Electric Division
1777 Industrial Way
Belmont, California

Director of Purchases
Radio Engineering Labs., Inc.
2901 Borden Avenue
Long Island City, New York

Director of Purchases
Research Cottrell, Inc.
P. O. Box 750
Bound Brook, New Jersey

Director of Purchases
Sangamo Electric Company
Pickens Division
P. O. Box 666
Pickens, South Carolina

Mr. Henry Coffee
Sierra Transformer Co.
8831 Miner Street
Los Angeles, California

Director of Purchases
Spokane Transformer Co.
North 708 Cook
Spokane, Washington 99202

Mr. Dean Brown
Sprague Electric Co., Inc.
87 Marshall Street
North Adams, Mass. 01247

MCL000092

Monsanto

FROM (NAME & LOCATION) P. W. Gann - B2SF

DATE May 9, 1973 cc

SUBJECT PCB Warning Letters, February 9, 1970

REFERENCE

TO : Memo to File

On April 26, 1973 I reviewed the probable mailing list of this Olson letter with Linda Brown. The mailing list which I have titled "February 9, 1970 mailing" containing 79 hand-numbered pages is believed to be the mailing list used for this letter. The copy is a xerox. Note, page 1 is missing. Pages 78 and 79 was the address list for the February 18, 1970 Olson letter to the dielectric customers.

Linda believes the basis for developing this list was the December, 1969 IBM No. 2 run. They then took the January and February No. 2 run to pick-up new customers. It is believed that this is the reason why the alphabet tends to repeat itself in this list. The check marks refer to check-off for other mailings, although Linda could not recall which mailing these check marks might refer to.

As she recalls the situation in February of 1970, when she first came on to the job, two other girls were typing the addresses on large gummed sheets. These sheets were then xerox reduced for file retention. The addresses were then cut-off the sheets and stuck on to envelopes for mailing.

She thought that pages 23, 24, 25, 26, and 27 delt with industrial fluid customers.

On page 52, this page has handwritten on the top the word "Therminols"; the same situation on page 70. The word Pydrauls, Aroclors heads page 74. In checking these pages and companies names, it is not clear the reason for these page titles as many of the company names do not all appear to be for that product.

P. W. Gann

/mc

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