



Buyers Up • Congress Watch • Critical Mass • Health Research Group • Litigation Group

Joan Claybrook, President

February 2, 1994

President Bill Clinton  
The White House  
1600 Pennsylvania Avenue  
Washington, DC, 20500

Dear Mr. President:

We strongly urge you to immediately reverse Reagan-Bush policies by ordering an accelerated program to individually notify 169,270 workers exposed to cancer-causing chemicals and other workplace hazards of their health risks. Although ten years have elapsed since the Public Citizen Health Research Group wrote to President Ronald Reagan requesting that the federal government individually notify workers who were exposed to these hazardous materials at 258 worksites surveyed in 69 epidemiological studies funded and conducted by the National Institute for Occupational Safety and Health (NIOSH), at most 30% have so far been notified.

We have obtained information from NIOSH that demonstrates that, due to underfunding of its Screening and Notifications Section, NIOSH has individually notified at most 71,180 (30%) of the original 240,450 workers; these notifications have occurred in only nine of the 69 studies (13%) at 55 of the 258 worksites (21%). This failure to notify has occurred despite recommendations a decade ago from both NIOSH and its parent agency, the Centers for Disease Control and Prevention (CDC), to do so. Many of the remaining workers are unaware that they were exposed to substances that were determined in these studies to increase their risks of cancer and other serious diseases, and thus have been denied the opportunity to take action to protect their health.

The failure of the U.S. government to notify these workers has clear parallels to the current controversy over subjects exposed to radiation in Department of Energy studies. In both, the studies were funded by the U.S. government, the subjects were often unaware of their exposures, and the government has lists of the subjects. In fact, the subjects in the workplace studies are more clearly at increased health risk, because the studies in which they participated demonstrated associations between their occupational exposures and cancer and other diseases. Although the workplace studies were not experiments in which the scientists administered the hazardous material (they were studies of prior workplace exposures), for the federal government to fail to spend the \$150 to \$300 per person that it would take to notify each worker is

unconscionable.

Because of the long latent period between exposure to many industrial hazards and the development of cancer and other conditions, this information can be useful to these workers today. For example, exposed workers could undergo screening that could lead to earlier detection of cancer. If your stated commitment to prevention in the health sector is to have any credibility, you will allocate the \$5 million annually necessary to adequately fund the notification program.

In January 1985, the Public Citizen Health Research Group obtained the names and locations of 258 workplaces in 40 states where NIOSH investigators had determined that over 240,450 workers were at increased risk for cancer, lung disease, heart disease and other health problems. The workers had been exposed to such known workplace hazards as asbestos, silica, uranium and dioxin. A subcommittee of the CDC Ethics Advisory Committee had concluded that NIOSH has a duty to inform workers of their exposures "particularly when NIOSH is the exclusive holder of information and when there is clear evidence of a cause and effect relationship between exposure and health risk."<sup>1</sup> NIOSH divided the original 69 studies into three categories:

- Category A: (31 studies, 87 worksites, 104,821 workers)  
"Studies in which participants could gain direct medical/health benefits from notification."
- Category B: (32 studies, 141 worksites, 128,246 workers)  
"Studies in which participants are potentially at high risk and should be notified but there are no known effective intervention methods."
- Category C: (6 studies, 30 worksites, 7383 workers)  
"Studies in which individual participant notification would stimulate improvements in working conditions."

So far NIOSH has notified workers in only five of the 31 Category A studies, four of the 32 Category B studies and none of the Category C studies. This represents only 9,250 of the 104,821 workers exposed in Category A studies (9%). Examples of Category A studies where no notification has occurred are asbestos-exposed workers (at increased risk for lung cancer) in Globe, AZ, dye-exposed workers in Newton, NC (at increased risk for cancer) and 22,000 workers exposed to radiation in four states (at increased risk for lung cancer and respiratory disease).

Despite the clear recommendations of its own scientific and ethical experts to notify exposed workers, the Reagan administration refused to fund a \$4 million pilot notification program and opposed congressional legislation that would have

required such notification. Subsequently, NIOSH's Screening and Notifications Section began notifying subjects in NIOSH studies at a rate of three to five studies per year on a \$300,000 annual budget. However, in addition to the 60 studies included in our original list for which NIOSH has done no notification, NIOSH has developed a backlog of 10-20 studies completed since then for which notification has also not occurred. Most of the Section's efforts are going into notifying workers in the more recent studies. At this rate, notification will not be completed until most of the subjects have died, many from occupationally-acquired, potentially preventable health conditions such as bladder cancer. We also support NIOSH's attempts to notify workers not included in the studies but who were nonetheless exposed to the same industrial hazards in the workplaces studied.

Even at this snail's pace, evidence that notification is both feasible and potentially lifesaving has continued to accumulate. The most important notification program was conducted in Augusta, GA among 1385 workers exposed to the bladder carcinogen beta-naphthylamine (BNA). Thirteen workers were found to have bladder cancer, three through the notification program.<sup>2</sup> At least two additional cases have since occurred. A follow-up study of this cohort to determine whether more cases have occurred has only just begun, having been bottled up at the Office of Management and Budget for two years. There are three additional important aspects of this study. First, only 58% of screened workers had ever heard of BNA and only 41% of these were aware that BNA is harmful.<sup>3</sup> Second, an evaluation of the psychological aspects of the notification revealed no significant adverse effects from the notification.<sup>4</sup> Third, although 169 workers filed about \$300 million in lawsuits, these were ultimately settled for \$500,000.<sup>5</sup> This should allay concerns raised by Reagan administration officials that notification programs would result in a flurry of lawsuits. Even if it did, however, we believe that the U.S. government has no place protecting industries from workers' legitimate claims for compensation from workplace illnesses.

Further studies have confirmed the viability of worker notification programs. Workers in Port Allegany, PA exposed to asbestos have been successfully notified of that exposure without increases in psychological stress for those notified.<sup>6</sup> Similar successes have been accomplished among pattern and model makers in the automobile industry,<sup>7</sup> asbestos-exposed workers in Cloquet, MN (61% had asbestos-related changes on chest x-ray),<sup>8</sup> chemical workers in Lock Haven, PA (10% had abnormal screening tests for bladder cancer)<sup>9,10</sup> and vinyl chloride-exposed workers in Louisville, KY (30 workers had liver abnormalities).<sup>11</sup> With this accumulation of experience, there is no excuse for failing to notify workers.

The issue of radiation-exposed subjects in Department of Energy-funded studies has once again focused public attention on

the question of the rights of subjects in human subjects research, and the federal government appears to be acting expeditiously to notify the subjects of their exposures. The subjects in the NIOSH studies, often exposed to carcinogens and other workplace hazards at massive levels, deserve the same kind of attention, rather than the unethical coverup that has characterized the federal response to date.

Yours sincerely,



Peter Lurie, MD, MPH  
Staff researcher



Sidney M. Wolfe, MD  
Director



Susan Goodwin  
Staff researcher

cc: HHS Secretary Donna Shalala, PhD  
HHS Assistant Secretary for Health Philip Lee, MD  
CDC Director, David Satcher, MD, PhD

1. Draft CDC Ethics Subcommittee Deliberations: "Right to Know" and "Worker Notification," November 30, 1983.
2. Schulte PA, Ringen K, Hemstreet GP, et al. Risk assessment of a cohort exposed to aromatic amines: initial results. Journal of Occupational Medicine 1985; 27:115-21.
3. Schulte PA, Ringen K, Altekruise EB, et al. Notification of a cohort of workers at risk of bladder cancer. Journal of Occupational Medicine 1985; 27:19-28.
4. Hornsby JL, Sappington JT, Mongan P, Gullen WH, Bono SF, Altekruise E. Risk for bladder cancer: psychological impact of notification. Journal of the American Medical Association 1985; 253:1988-1902.
5. Needleman C. Worker notification: lessons from the past. American Journal of Industrial Medicine 1993; 23:11-23.
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8. Finendale MJ. Beyond notification: a case study from Cloquet, Minnesota. American Journal of Industrial Medicine 1993; 23:153-9.
9. Leviton LC, Chen HT, Marsh GM, Talbott EO. Evaluation issues in the Drake chemical workers notification and health registry study. American Journal of Industrial Medicine 1993; 23:197-204.
10. Marsh GM, Leviton LC, Talbott EO, et al. Drake chemical workers' health registry study: I. notification and medical surveillance of a group of workers at high risk of developing bladder cancer. American Journal of Industrial Medicine 1991; 19:291-301.
11. Needleman C. Worker notification: lessons from the past. American Journal of Industrial Medicine 1993; 23:11-23.

# Workplace Health Risks

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*Exposure to cancer-causing chemicals  
and other workplace hazards*



Public Citizen's Health Research Group  
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# Public Citizen



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The failure of the U.S. government to notify these workers has clear parallels to the current controversy over subjects exposed to radiation in Department of Energy studies. In both, the studies were funded by the U.S. government, the subjects were often unaware of their exposures, and the government has lists of the subjects. In fact, the subjects in the workplace studies are more clearly at increased health risk, because the studies in which they participated demonstrated associations between their occupational exposures and cancer and other diseases. Although the workplace studies were not experiments in which the scientists administered the hazardous material (they were studies of prior workplace exposures), for the federal government to fail to spend the \$150 to \$300 per person that it would take to notify each worker is

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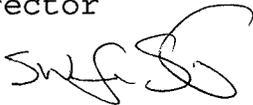
Yours sincerely,



Peter Lurie, MD, MPH  
Staff researcher



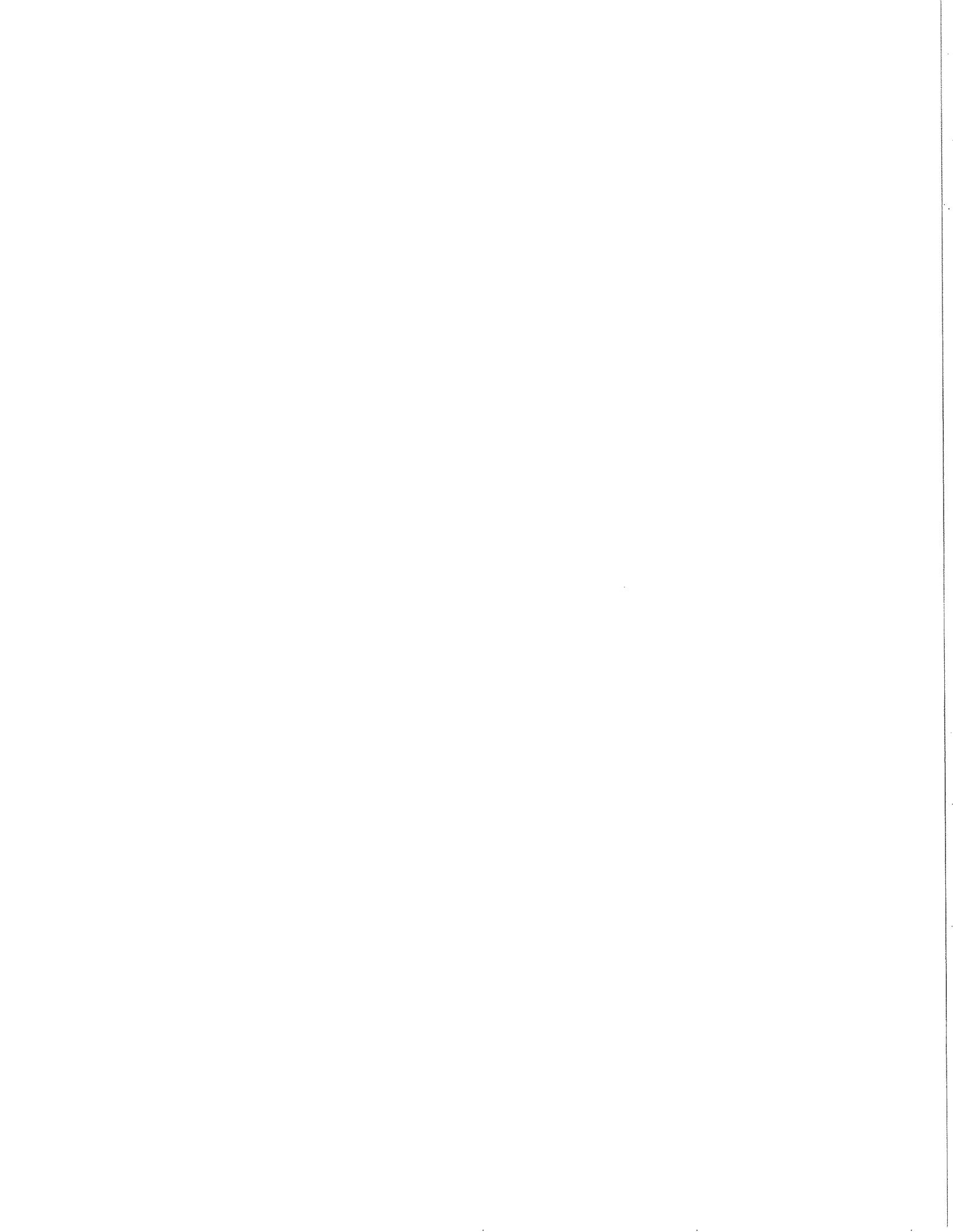
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cc: HHS Secretary Donna Shalala, PhD  
HHS Assistant Secretary for Health Philip Lee, MD  
CDC Director, David Satcher, MD, PhD

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## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
<b>Alabama</b>						
Axis	Shell Oil Company	1,2 dibromo-3-chloropropane (DBCP)	Cancer, reproductive effects	1 of 6 sites with total of 3231	B	No
Birmingham	Fairfield Works (U.S. Steel)	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth, throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Unclear
Gadston	Republic Steel	Same	Same	Same	B	Unclear
<b>Arkansas</b>						
Jacksonville	Hercules	Dioxin	Cancer	1 of 11 sites with total of 1400	B	Yes
Jacksonville	Vertac	Same	Same	Same	B	Yes
<b>Arizona</b>						
Bisbee	Copper Queen	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Cameron	Uranium Mines & Mills	Uranium, thorium, radium isotope, radon daughters	Lung cancer, resp. disease	1 of 4 states with total of 22,000	A	No
Globe	Metate	Asbestos	Lung cancer, mesothelioma, asbestosis	1 of 2 sites with total of 57	A	No
Globe	Jacquays and Co.	Same	Same	Same	A	No
Miami	Miami Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No

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Monument Valley	Vanadium Corp. of America	Uranium, thorium, radium isotope, radon daughters, silica	Lung cancer, resp. disease, tuberculosis	1 of 4 states with total of 5000	A	No
Prescott	Iron King	Silica dust, diesel exhaust	Resp. cancer silicosis	1 of 44 sites with total of 12,318	B	No
San Manuel	San Manuel Mine	Same	Same	Same	B	No
Superior	Magma Mine	Same	Same	Same	B	No
Superior	Magma Mine	Silica	Resp. disease	1 of 7 sites with total of 500	C	No
Tuba City	Uranium Mines & Mills	Uranium, thorium, radium isotope, radon daughters	Altered sex ratios in 1st born offspring	1 of 4 states with total of 10,000 offspring	A	No
Tucson	Daisy Mine (Pima-Mining)	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Unknown	IRADO Co.	Silica, diesel fumes	Resp. disease	1 of at least 10 states with total of 5000	C	No
<b>California</b>						
Bishop	Pine Creek Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Canoga Park	Rockwell Int'l	OSHA regulated carcinogens	Cancer	1 of 9 sites with total of 179	B	No

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Fontana	Kaiser (CA Steel Corp.)	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth & throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Unclear
Los Angeles	Siveco, Inc.	OSHA regulated carcinogens	Cancer	1 of 9 sites with total of 179	B	No
Newbury Park	Northrop Corp.	OSHA regulated carcinogens	Cancer	1 of 9 sites with total of 179	B	No
Northridge	Teledyne Systems	Same	Same	Same	B	No
Oakland	AFL-CIO Laundry and Dry Cleaning International	Perchloroethylene	Same	1 of 4 locals with total of 1597	B	No
Redwood City	Diamond Shamrock (Rohm & Haas)	Bis-chloromethyl ether (BCME)	Lung cancer	700	A	Yes
Sacramento	Sacramento Municipal Utility District	Polychlorinated biphenyls (PCBs)	Cancer	15	B	No
San Jose	New Idria Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Santa Clara	Owens Corning	Fibrous glass	Resp. disease	59	A	No
Santa Cruz	Salz Leathers	Benzidine-derived azo dyes	Cancer	1 of 6 sites with total of 38	A	No

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Torrence	Montose	Chlorinated hydrocarbons (e.g. chlor-dane, heptachlor, aldrin, endrin, DDT)	Cancer	1 of 4 sites with total of 2100	B	No
Unknown	Unknown	Cotton dust in cotton ginneries	Resp. disease	1 of 3 states with total of 286	B	No
<b>Colorado</b> Broomfield	Lange Co.	OSHA regulated carcinogens	Cancer	1 of 9 sites with total of 179	B	No
Climax	Climax Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Denver	Shell	Chlorinated hydrocarbons (e.g. chlor-dane, heptachlor, aldrin, endrin, DDT)	Cancer	1 of 4 sites with total of 2100	B	No
Denver	Shell Chemical Co.	1,2-Dibromo-3-chloropropane (DBCP)	Cancer, reproductive effects	1 of 6 sites with total of 3231	B	No
Denver	Asarco	Cadmium	Lung and prostate cancer	1500	A	Yes
Gilman	Eagle Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Rico	Rico Argentine Mine	Same	Same	Same	B	No
Unknown	IRADO Co.	Silica, diesel fumes	Resp. disease	1 of at least 10 states total of 5000	C	No

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Unknown	Uranium mines & mills	Uranium, thorium, radium isotope, radon daughters, silica	Lung cancer, resp. disease, tuberculosis	1 of 4 states with total of 5000	A	No
Unknown	Uranium mines & mills radon daughters, silica	Uranium, thorium, radium isotope,	Altered sex ratios in 1st born offspring	1 of 4 states with total 10,000 offspring	A	No
Unknown	Same	Uranium, thorium, radium isotope, radon daughters	Lung cancer, resp. disease	1 of 4 states with total of 22,000	A	No
<b>Connecticut</b>						
New Haven	Upjohn Co.	Benzidine	Bladder cancer	1 of 3 sites with total of 1650	A	No
North Haven	Upjohn Co.	3,3-Dichlorobenzidine (DCB)	Same	1 of 2 sites with total of 236	A	No
<b>Delaware</b>						
Claymont	Unknown	Kepone	Cancer	1 of 10 sites with total of 2269	B	No
<b>Florida</b>						
Jacksonville	Black Magic Company	Same	Same	Same	B	No
Palmetto	Southern Agricultural Insecticides	Same	Same	Same	B	No
Plant City	Asgrow Florida Co.	Same	Same	Same	B	No

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Sanford	Chase Co.	1,2-Dibromo-3-chloropropane (DBCP)	Cancer, reproductive effects	1 of 6 sites with total of 3231	B	No
<b>Georgia</b>						
Atlanta	Cluett & Peabody (Arrow Shirt)	Formaldehyde	Cancer	1 of 2 sites with total of 14,000	B	No
Augusta	Synalloy	Beta-naphthylamine	Bladder cancer	1150	A	Yes
<b>Idaho</b>						
Burke	Star Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Kellogg	Sunshine Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Kellogg	Bunker Hill Mine	Same	Same	Same	B	No
Kellogg	Bunker Hill Mine	Silica	Resp. disease	1 of 7 sites with total of 500	C	No
Kellogg	Crescent Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Silverton	Hercules Mine	Same	Same	Same	B	No
Wallace	Dayrock Mine	Same	Same	Same	B	No
Wallace	Page Mine	Same	Same	Same	B	No

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Unknown	IRADO Co.	Silica, diesel fumes	Resp. disease	1 of at least 10 states with a total of 5000	C	No
<b>Illinois</b>						
Chicago	Laundry, Dry Cleaning, & Dye House Workers Int'l Union (Inland Steel)	Perchloro- ethylene	Cancer	1 of 4 locals with total of 1597	B	No
Chicago	Velsicol Chemical Corp.	1,2-Dibromo- 3-chloropro- pane (DBCP)	Cancer, re- productive effects	1 of 6 sites with total of 3231	B	No
Chicago (Riverdale)	Riverdale Chemical Company	Dioxin	Cancer	1 of 11 sites with total of 1400	B	Yes
Marshall	Velsicol	Chlorinated hydrocarbons (e.g. chlor- dane, hepta- chlor, aldrin, endrin, DDT)	Cancer	1 of 4 sites with total of 2100	B	No
Sauget	Monsanto	Dioxin	Same	1 of 11 sites with total of 1400	B	Yes
<b>Indiana</b>						
Alexandria	Johns Manville	Mineral wool	Resp. disease	200	A	No
Bloomington	Westing- house	Polychlori- nated bi- phenyls (PCBs)	Cancer	230	B	Yes

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East Chicago	Inland Steel	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth & throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Yes
Gary	Gary Works (U.S. Steel)	Same	Same	Same	B	Unclear
Shelbyville	Pittsburgh Plate Glass (Knauf Fiber Glass)	Fibrous glass	Resp. disease	1 of 4 sites with total of 10,000	A	No
<b><i>Kansas</i></b>						
Kansas City	Thompson Hayward	Dioxin	Cancer	1 of 11 sites with total of 1400	B	Yes
Unknown	IRADO Co.	Silica, diesel fumes	Resp. disease	1 of at least 10 states with total of 5000	C	No
<b><i>Kentucky</i></b>						
Louisville	B.F. Goodrich	Vinyl chloride	Liver, brain & lung cancer	1 of 6 sites with total of 1300	B	Yes
<b><i>Louisiana</i></b>						
Norco	Shell	Epichlorohydrin	Cancer	1 of 2 sites with total of 864	B	No
<b><i>Massachusetts</i></b>						
New Bedford	Aerovix Industries	Polychlorinated biphenyls (PCBs)	Cancer	1599	B	No
Salem	Sylvania	Beryllium	Lung cancer, resp. disease	1 of at least 4 sites with total of 887	A	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Watertown	Ionics	Bis-chloro-methyl ether, chloro-methyl (methyl) ether (BCME, CMME)	Lung cancer	1 of 6 sites with total of 1800	A	Yes
<b><i>Maryland</i></b>						
Baltimore	Allied Chemical Company	Kepone	Cancer	1 of 10 sites with total of 2269	B	No
Baltimore	Young-Ana-line Co.	Benzidine	Bladder cancer	1 of 3 sites with total of 1650	A	No
Fredericktown	Unknown	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Shadyside	Chesapeake Instrument Corp.	OSHA regulated carcinogens	Cancer	1 of 9 sites with total of 179	B	No
<b><i>Michigan</i></b>						
Adrian	Anderson Development Company	4,4-Methylene-bis (chloroaniline) (MOCA)	Cancer	549	B	No
Calumet	Centennial2	Silica dust, diesel exhaust	Resp. cancer silicosis	1 of 44 sites with total of 12,318	B	No
Detroit	Amalgamated Clothing & Textile Workers Union	Perchloroethylene	Cancer	1 of 4 locals with total of 1597	B	No
Ironwood	Penokee Mine	Silica dust, diesel exhaust	Resp. cancer silicosis	1 of 44 sites with total of 12,318	B	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Midland	Dow	Bis-chloro-methyl ether, chloromethyl (methyl) ether (BCME, CMME)	Lung cancer	1 of 6 sites with total of 1800	A	Yes
Midland	Same	Dioxin	Cancer	1 of 11 sites with total of 1400	B	Yes
Muskegon	Lakeway Chemicals	Benzidine	Bladder cancer	1 of 3 sites with total of 1650	A	No
Negaunee	Tracy Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Negaunee	Mather B Mine	Same	Same	Same	B	No
Negaunee	Mather B Mine	Silica	Resp. disease	1 of 7 sites with total of 500	C	No
White Pine	White Pine Mine	Silica	Same	Same	C	No
White Pine	Same	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Ypsilanti	Peninsular Paper Co.	Benzidine-derived azo dyes	Cancer	1 of 6 sites with total of 38	A	No
Unknown	IRADO Co.	Silica, diesel fumes	Resp. disease	1 of at least 10 states with total of 5000	C	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
<b>Minnesota</b>						
Deerwood	Armour 1, 2, 3	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Duluth	Duluth works (U.S. Steel)	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth & throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Unclear
<b>Missouri</b>						
St. Louis	Union Electric Co.	Polychlorinated biphenyls	Cancer	25	B	No
Verona	Syntex	Dioxin	Same	1 of 11 sites with total of 1400	B	Yes
Viburnum	Lead Corp.	Silica dust, diesel exhaust	Resp. disease	1 of 44 sites with total of 12,318	B	No
<b>Montana</b>						
Alder	Unknown	Talc	Resp. disease (pleural thickening)	1 of 7 sites with total of 308	C	No
Butte	Anaconda Mining Co.	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Dillon	Pfizer Co.	Talc	Resp. disease (pleural thickening)	1 of 7 sites with total of 308	C	No
Ennis	Unknown	Same	Same	Same	C	No
Three Forks	Same	Same	Same	Same	C	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
<b>Nebraska</b>						
Grand Island	Cyprus Industrial Minerals	Talc	Resp. disease (pleural thickening)	1 of 7 sites with total of 308	C	No
<b>Nevada</b>						
Reno	Cordero Mine (NV Mining assoc.)	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
<b>New Hampshire</b>						
Meredith (Laconia)	American Asbestos Textile (Amatex)	Asbestos	Lung cancer, mesothelioma, asbestosis	1 of 11 sites with total of 4100	A	Unclear
<b>New Jersey</b>						
Birmingham	Ionac	Bis-chloro-methyl ether, chloro-methyl (methyl) ether (BCME, CMME)	Lung cancer	1 of 6 sites with total of 1800	A	Yes
Clifton	Walco-Linck Corp.	Kepone	Cancer	1 of 10 sites with total of 2269	B	No
Deepwater	E.I. duPont deNemours & Co.	OSHA regulated carcinogens	Same	1 of 9 sites with total of 179	B	No
Manville	Johns-Manville	Asbestos	Lung cancer, mesothelioma, asbestosis	1 of 11 sites with total of 4100	A	Unclear
Manville	Johns-Manville	Same	Same	1 of 8 sites with total of 7600	A	No
Newark	Diamond Alkali Co.	Dioxin	Cancer	1 of 11 sites with total of 1400	B	Yes

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Nutley	Hoffman-La-Roche, Inc.	OSHA regulated carcinogens	Cancer	1 of 9 sites with total of 179	B	No
Patterson	Fabricolor	Benzidine-derived azo dyes	Same	1 of 6 sites with total of 38	A	No
Trenton	NJ Motor Vehicle Department	Carbon monoxide	Cancer, cardiovascular disease	1600	B	No
<b><i>New Mexico</i></b>						
Hanover	Empire-Hanover Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Unknown	Unknown	Cotton dust in cotton ginneries	Resp. disease	1 of 3 states with total of 286	B	No
Unknown	IRADO Co.	Silica, diesel fumes	Resp. disease	1 of at least 10 states with total of 5000	C	No
Unknown	Uranium mines & mills	Uranium, thorium, radium isotope, radon daughters, silica	Lung cancer, resp. disease, tuberculosis	1 of 4 states with total of 5000	A	No
Unknown	Same	Same	Altered sex ratios in 1st born offspring	1 of 4 states with total of 10,000 offspring	A	No
Unknown	Same	Uranium, thorium, radium isotope, radon daughters	Lung cancer, resp. disease	1 of 4 states with total of 22,000	A	No
<b><i>New York</i></b>						
Gouverneur	RT Vanderbilt	Talc (asbestiform)	Lung cancer, resp. disease	750	A	No

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## Sites of NIOSH-Conducted Epidemiological Studies

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Gouverneur	Vanderbilt Talc Co.	Talc	Resp. disease (pleural thickening)	125	C	No
Hudson Falls	General Electric	Polychlorinated biphenyls (PCBs)	Cancer	986	B	No
New York City	UAW locals 259 & 595	Asbestos	Lung cancer, mesothelioma, asbestosis	1 of 3 unions with total of 882	A	No
New York City	SEIU local 246	Same	Same	Same	A	No
New York City	AFSCME District Council #37	Same	Same	Same	A	No
New York City	Amalgamated Clothing & Textile Workers Union	Perchloroethylene	Cancer	1 of 4 locals with total of 1597	B	No
New York City	International Pressmen & Assistants Union Local #2	Inks and oil mists	Lung, mouth, & throat cancer. Resp. disease	1769	B	No
Niagara Falls	Hooker Chemicals & Plastics Corp. (Occidental)	Bis-chloromethyl ether, chloro-methyl (methyl) ether (BCME, CMME)	Lung cancer	1 of 6 sites with total of 1800	A	Yes
Niagara Falls	Hooker	1,2-Dibromo-3-chloropropane (DBCP)	Cancer, reproductive effects	1 of 6 sites with total of 3231	B	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Niagara Falls	Hooker	Kepone	Cancer	1 of 10 sites with total of 2269	B	No
Rensselaer	GAF (BASF Wyandot)	Benzidine-derived azo dyes	Cancer	1 of 6 sites with total of 38	A	No
<b><i>North Carolina</i></b>						
Charlotte	H.K. Porter (Southern Manufacturing)	Asbestos	Lung cancer, mesothelioma, asbestosis	1 of 11 sites with total of 4100	A	Unclear
Charlotte	H.K. Porter	Same	Same	1 of 8 sites with total of 7600	A	No
Charlotte	Scanduras	Same	Same	1 of 11 sites with total of 4100	A	Unclear
Charlotte	Same	Same	Same	1 of 8 sites with total of 7600	A	No
Davidson	H.K. Porter	Same	Same	Same	A	No
Davidson	Same	Same	Same	1 of 11 sites with total of 4100	A	Unclear
Marshville	Raybestos-Manhattan (Raymark)	Same	Same	1 of 8 sites with total of 7600	A	No
Marshville	Johns Manville	Same	Same	1 of 11 sites with total of 4100	A	Unclear

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<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Murphy	Hitchcock Corp. (Warner Talc Mines)	Talc	Resp. disease (pleural thickening)	1 of 7 sites with total of 308	C	No
Newton	Clyde Fabrics (Div. of Ti'caro, Inc.)	Benzidine-derived azo dyes	Cancer	1 of 6 sites with total of 38	A	No
Winston-Salem	Hanes Dyeing and Finishing Co.	Same	Same	Same	A	No
Unknown	Burlington Mills	Cotton dust	Resp. disease, cardiovascular problems	2844	B	No
<b>Ohio</b>						
Akron	Goodyear Tire & Rubber Co.	Benzene	Leukemia	1 of 2 sites with total of 1000	B	No
Ashtabula	General Tire & Rubber (Diversitech General)	Vinyl chloride	Liver, brain & lung cancer	1 of 6 sites with total of 1300	B	Unclear
Avon Lake	B.F. Goodrich	Same	Same	Same	B	Unclear
Cincinnati	Construction Workers Local #8	Asbestos	Lung cancer, mesothelioma, asbestosis	1 of 11 sites with total of 4100	A	Unclear
Cincinnati	Philip-Carey	Same	Same	1 of 8 sites with total of 7600	A	No
Cincinnati	Int'l Molders Union	Silica, polyaromatic hydrocarbons	Lung cancer, resp. disease	2000	B	No

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<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Cleveland	Brush-Wellman (Lorain)	Beryllium	Lung cancer, resp. disease	1 of 6 sites with total of 3300	A	No
Cleveland	Brush-Wellman (Lucky)	Same	Same	Same	A	No
Cleveland	Brush-Wellman (St. Clair)	Same	Same	Same	A	No
Cleveland	Brush-Wellman (Elmore)	Beryllium	Lung cancer, resp. disease	1 of 6 sites with total of 3300	A	No
Cleveland	Brush-Wellman (Perkins)	Same	Same	Same	A	No
Cleveland	Brush-Beryllium Company	Same	Same	1 of at least 4 sites with total of 887	A	No
Cleveland	General Electric	Same	Same	Same	A	No
Defiance	Johns Manville	Fibrous glass	Resp. disease	1 of 4 sites with total of 10,000	A	No
Elmore	Brush-Wellman	Beryllium	Lung cancer, resp. disease	1 of 4 sites with total of 1600	A	No
Lorain	Same	Same	Same	Same	A	No
Newark	Owens-Corning	Fibrous glass	Resp. disease	1 of 4 sites with total of 10,000	A	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Painesville	Uniroyal	Vinyl chloride	Liver, brain & lung cancer	1 of 6 sites with total of 1300	B	Unclear
St. Mary's	Goodyear Tire & Rubber Co.	Benzene	Leukemia	1 of 2 sites with total of 1000	B	No
Unknown	IRADO Co.	Silica, diesel fumes	Resp. disease	1 of at least 10 states with total of 5000	C	No
Unknown	Unknown	Carbon disulfide	Cardiovascular disease	9000	A	No
<b>Oklahoma</b>						
Ponca City	Continental Oil Co.	Bis-chloro-methyl ether, chloro-methyl (methyl) ether (BCME, CMME)	Lung cancer	1 of 6 sites with total of 1800	A	Unclear
<b>Ontario</b>						
Saulte Ste. Marie	Algoma Steel	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth & throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Unclear
<b>Oregon</b>						
Portland	Rhone Poulenc	Dioxin	Cancer	1 of 11 sites with total of 1400	B	Yes
<b>Pennsylvania</b>						
Aliquippa	Jones and Laughlin Steel Corp.	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth & throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Unclear
Brackenridge	Allegheny Ludlum Corp.	Same	Same	Same	B	Unclear

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Braddock	Braddock Works (U.S. Steel)	Same	Same	Same	B	Unclear
Clairton	Clairton Works (U.S. Steel)	Same	Same	Same	B	Unclear
Duquesne	Duquesne Works (U.S. Steel)	Same	Same	Same	B	Unclear
Hazelton	Kawicki-Berylco	Beryllium	Lung cancer, Resp. disease	1 of 4 sites with total of 1600	A	No
Homestead	Homestead Steel Works (U.S. Steel)	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth & throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Yes
Lebanon	Cornwall 3 & 4 (Bethlehem Steel)	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Lewistown	Cluett & Peabody (Arrow Shirt)	Formaldehyde	Cancer	1 of 2 sites with total of 14,000	B	No
Manheim	Raybestos-Manhattan	Asbestos	Lung cancer, mesothelioma, asbestosis	1 of 11 sites with total of 4100	A	Unclear
Manheim	Same	Same	Same	3276	A	No
Marcus Hook	Allied Chemical Company	Kepono	Cancer	1 of 10 sites with total of 2269	B	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Monessen	Wheeling Pittsburgh	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth & throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Unclear
Morgantown	Grace Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Morgantown	Same	Silica	Resp. disease	1 of 7 sites with total of 500	C	No
Pittsburgh	Jones and Laughlin Steel Corp.	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth & throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Unclear
Port Allegheny	Pittsburgh-Corning	Asbestos	Lung cancer, mesothelioma, asbestosis	1 of 11 sites with total of 4100	A	Yes
Pottstown	Firestone	Vinyl chloride	Liver, brain & lung cancer	1 of 6 sites with total of 1300	B	Unclear
Pottstown	Unknown	Same	Liver enlargement, hypertension, CNS symptoms	433	B	No
Reading	Cabot-Berylco (Reading)	Beryllium	Lung cancer, resp. disease	3200	A	No
Reading	Cabot-Berylco (Hazelton)	Same	Same	1 of 6 sites with total of 3300	A	No
Reading	Kawicki-Berylco	Same	Same	1 of 4 sites with total of 1600	A	No

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## Sites of NIOSH-Conducted Epidemiological Studies

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Reading	Cabot-Berylco	Same	Same	1 of at least 4 sites with total of 887	A	No
Reading	Reading Company	Asbestos	Lung cancer, mesothelioma, asbestosis	318	A	No
Springhouse	Rohm and Haas	Bis-chloro methyl ether, chloro-methyl (methyl) ether (BCME, CMME)	Lung cancer	1 of 6 sites with total of 1800	A	Yes
State College	Nease Chemical Company (Ruetgers-Nease)	Kepone	Cancer	1 of 10 sites with total of 2269	B	No
West Mifflin	Irvin Works (U.S. Steel)	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth & throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Unclear
Unknown	IRADO Co.	Silica, diesel fumes	Resp. disease	1 of at least 10 states with total of 5000	C	No
<b>South Carolina</b>						
Bennetsville	H.K. Porter	Asbestos	Lung cancer, mesothelioma, asbestosis	1 of 8 sites with total of 7600	A	No
Charleston	Raybestos-Manhattan	Same	Same	1 of 11 sites with total of 4100	A	Unclear
Charleston	Same	Same	Same	1140	A	No

## Sites of NIOSH-Conducted Epidemiological Studies

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<b><i>South Dakota</i></b>						
Lead	Homestake Goldmine	Asbestos, radon daughters, arsenic, silica	Lung cancer, mesothelioma, asbestosis, resp. disease	3000	A	No
Lead	Homestake	Same	Same	849	A	No
Lead	Homestake Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Lead	Homestake Mine	Silica	Resp. disease	1 of 7 sites with total of 500	C	No
Unknown	IRADO Co.	Silica, diesel fumes	Resp. disease	1 of at least 10 states with total of 5000	C	No
<b><i>Tennessee</i></b>						
Lowland	American Enka Co.	Carbon disulfide	Cardiovascular disease	156	B	No
Memphis	Velsicol	Chlorinated hydrocarbons (e.g. chlordane, heptachlor, endrin, aldrin, DDT, dieldrin)	Cancer	1 of 4 sites with total of 2100	B	No
<b><i>Texas</i></b>						
Allamore	Pioneer Talc	Talc	Resp. disease (pleural thickening)	1 of 7 sites with total of 308	C	No
Arlington	Oil States Industries	OSHA regulated carcinogens	Cancer	1 of 9 sites with total of 179	B	No
Deer Park	Shell	Epichlorohydrin	Same	1 of 2 sites with total of 864	B	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Edinburg	Tide Products, Inc.	1,2-Dibromo-3-chloropropane (DBCP)	Cancer, reproductive effects	1 of 6 sites with total of 3231	B	No
Freeport	Dow Chemical	Mixed exposures	Brain cancer	2096	B	No
Palestine	Southern Clay, Van Horn & Palestine	Talc	Resp. disease (pleural thickening)	1 of 7 sites with total of 308	C	No
Pt. Arthur	Texaco	Mixed exposures	Brain cancer	1 of 3 sites with total of 2000	B	No
Pt. Arthur	Gulf	Same	Same	Same	B	No
Pt. Arthur	Mobile	Same	Same	Same	B	No
Texas City	Amoco	Same	Malignant melanoma, brain & liver cancer	162 deaths	B	No
Texas City	Marathon	Mixed exposures	Malignant melanoma, brain & liver cancer	62 deaths	B	No
Texas City	Union Carbide	Same	Brain cancer	10,000	B	No
Tyler	Pittsburgh-Corning	Asbestos	Lung cancer, mesothelioma, asbestosis	1 of 11 sites with total of 4100	A	Unclear
Tyler	Pittsburgh-Corning	Same	Same	1 of 8 sites with total of 7600	A	No
Van Horn	Milwhite Talc	Talc	Resp. disease (pleural thickening)	1 of 7 sites with total of 308	C	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Unknown	Unknown	Cotton dust in cotton ginners	Resp. disease	1 of 3 states with total of 286	B	No
<b>Utah</b>						
Garfield	Kennecott Copper Smelter	Sulfur dioxide, arsenic, dust	Resp. disease	1100	A	No
Keetley	Mayflower Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Park City	United Park City Mine	Same	Same	Same	B	No
Provo	Geneva Works (U.S. Steel)	Coal tar & distillates, metal fumes, sulfuric acid mist, etc.	Resp., liver, pancreas, bowel, mouth & throat cancers. Resp. disease	1 of 17 sites with total of 59,000	B	Unclear
Unknown	Uranium mines & mills	Uranium, thorium, radium isotope, radon daughters, silica	Lung cancer, resp. disease, tuberculosis	1 of 4 states with total of 5000	A	No
Unknown	Same	Same	Altered sex ratios in 1st born offspring	1 of 4 states with total of 10,000 offspring	A	No
Unknown	Same	Uranium, thorium, radium isotope, radon daughters	Lung cancer, resp. disease	1 of 4 states with total of 22,000	A	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
<b>Vermont</b>						
Barre	Quarries & finishing sheds	Silica	Resp. disease	2000	B	No
Englehart	Johnson & Johnson	Talc	Same	1 of 2 sites with total of 750	A	No
Englehart	Eastern Magnesia Talc Co.	Same	Same	Same	A	No
<b>Virginia</b>						
Alexandria	R.G. Boyle Company	Arsenic, mercury	Lung cancer, CNS effects	176	B	No
Hopewell	Allied Chemical Company	Kepon	Cancer	1 of 10 sites with total of 2269	B	No
<b>Washington</b>						
Metaline Falls	Pend'Orielle Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Metaline Falls	Grandview Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	Same	B	No
Republic	Knob Hill Mine	Same	Same	Same	B	No
Seattle	Boiler-makers Union Local #104	Asbestos, welding fumes	Lung cancer, resp. disease	8679	A	No
<b>West Virginia</b>						
Charleston	Union Carbide	Vinyl chloride	Liver, brain & lung cancer	1 of 6 sites with total of 1300	B	Unclear

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Nitro	Monsanto	Dioxin	Cancer	1 of 11 sites with total of 1400	B	Yes
Parkersburg	Johns Manville	Fibrous glass	Resp. disease	1 of 4 sites with total of 10,000	A	No
<b>Wyoming</b>						
Sunrise	Sunrise Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Sunrise	Same	Silica	Resp. disease	1 of 7 sites with total of 500	C	No
Unknown	FMC	Trona dust, diesel fumes nitrogen di-oxide	Resp. disease	1 of 2 sites with total of 700	C	No
Unknown	Allied	Same	Same	Same	C	No
Unknown	IRADO Co.	Silica, diesel fumes	Resp. disease	1 of at least 10 states with total of 5000	C	No
<b>Unknown</b>						
Unknown	Abbott Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No
Bristol	Unknown	Same	Same	Same	B	No
(Bunker Hill)	Madison Mine	Same	Same	Same	B	No
(Sonoma Mt.)	Jackson Mine	Same	Same	Same	B	No

## Sites of NIOSH-Conducted Epidemiological Studies

<i>City</i>	<i>Plant</i>	<i>Exposure</i>	<i>Disease</i>	<i># of Workers Exposed</i>	<i>Category</i>	<i>Notified?</i>
Unknown	Wm. T. Thompson	Dioxin	Cancer	1 of 11 sites with total of 1400	B	Yes
Unknown	Movat Mine	Silica dust, diesel exhaust	Resp. cancer, silicosis	1 of 44 sites with total of 12,318	B	No

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