

Young Worker Fatal Injury in Construction

Final Report

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Section I

Executive Summary

This was a study of fatal work injury in the construction industry from 1984 through 1998 which focused on teenage workers. The study used OSHA investigation data to compare fatal injuries in teenagers with adults, to describe various factors related to fatal injury, and to determine whether fatalities among workers less than age 18 were in apparent violation of existing child labor regulations (hazardous orders). The investigation data were for 47 U.S. states for 1984-89, with California, Michigan, and Washington State excluded, and for all 50 states for 1990-1998.

OSHA investigates fatal work injuries for which it has jurisdiction. Certain fatalities such as motor vehicle crashes and homicides are usually excluded. For the 15 year period we found 9,344 fatalities, with 326 in teenagers, of which 76 were in workers less than age 18. The fatality rate of 1.28 per 10,000 per year was somewhat lower than that found by NIOSH from death certificate data for 1980-1995 (1.52/10,000/year) but indicated that OSHA investigated the majority of deaths in the construction industry during 1984-1998.

The OSHA investigation reports indicated that teenage workers who died were more likely than adults to be victims of electrocution or to be struck by industrial vehicles or materials handling equipment. A variety of types of vehicles and equipment were involved, such as dump trucks and bulldozers, and the teenage fatalities were usually bystander fatalities. No one type of equipment was reported significantly more for teenagers than adults. The fatalities from electrocution were from contact with service voltage (e.g., 110 V AC) and high voltage power lines.

For the 76 fatalities among workers less than age 18, 49% were in apparent violation of existing hazardous orders. The most frequently violated hazardous orders were trenching work and roofing (9 each), followed by operating a motor vehicle or being an outside helper (5), demolition work (3), operating a power saw (2), and operation of powered hoisting apparatus (1). There were 15 age violations (less than age 16), which are also considered violations of hazardous orders. We estimated that in 54% of the 76 fatalities the employer's gross annual income exceeded \$500,000, the current threshold for federal enforcement of hazardous orders.

Fatal work injuries among teenage construction workers were significantly more likely to be at small business firms with fewer than 11 employees (Odds Ratio = 1.72, $p < .05$) and far more likely to be at non-union firms (OR=4.96, $p < .05$).

This study did not identify work activities which would justify promulgation of new hazardous orders. Additional research concerning the hazards of street and highway construction, or of hazards related to industrial vehicles should be considered.

The findings of this study indicate the need for training for employers and young workers in non-union small firms, particularly with respect to existing hazardous orders, electrical work, and work in the vicinity of power lines and large vehicles such as in street and highway construction.

Section II

Background and need

The 1998 Institute of Medicine report *Protecting Youth at Work* (IOM, 1998) found that existing Hazardous Orders fail to address the full range of health and safety hazards and technologies in the contemporary workplaces in which youngsters are now employed. The IOM report recommended that changes to the hazardous orders should be based on periodic reviews by the National Institute for Occupational Safety and Health (NIOSH) of current workplace hazards and the adequacy of existing hazardous orders to address them. In the 1997 report *Child Labor Research Needs* NIOSH noted that substantial gaps exist in the coverage provided by occupational injury surveillance systems and there was a need for detailed information about the circumstances of youth work injury and contributing factors.

Although construction provided only 3% of youth employment in 1990 (NIOSH, 1997), the construction industry accounted for the second largest proportion of fatal work injuries for 16- and 17-year olds (17% of all fatalities), second only to agriculture (Castillo et.al., 1994). With respect to fatal injury, construction work is especially hazardous for young workers.

This study was proposed to address the above concerns for youth employed in the construction industry and was funded through a cooperative agreement with NIOSH.

Why the study used OSHA investigation data

The most comprehensive sources of information concerning fatal work injury in the U.S. are the Bureau of Labor Statistics' Census of Fatal Occupational Injury (CFOI) and the NIOSH National Traumatic Occupational Fatalities (NTOF) surveillance system. Both surveillance systems provide information on fatal work injuries starting with 1992 (CFOI) and with 1980 (NTOF). The research described in this report was done using U.S. Department of Labor Occupational Safety & Health (OSHA) investigation data for the construction industry. We acknowledge that OSHA investigation data are less comprehensive than either CFOI or NTOF and that OSHA does not have jurisdiction over nor investigate every fatal injury in construction. We chose the OSHA investigation data for several strengths: a) systematic collection of detailed information concerning work injury since April 1984, and, b) particularly relevant to the construction industry, investigation of the majority of fatal work injuries in construction, and c) investigating fatal injuries in a consistent manner with coding of factors related to fatal injury, which allowed comparison of teenage fatalities vs. adults with respect to violation of safety regulations and characteristics of construction employers. OSHA fatality reports usually contain sufficient narrative information to judge whether the work activity was in violation of hazardous orders. The kind of information available from OSHA investigations is also pertinent to the evaluation of whether child labor regulation, as represented by existing hazardous orders promulgated in 1937, has kept up with hazards faced by young construction workers.

Hazardous Orders

In the U.S., child labor is defined by the Fair Labor Standards Act (FLSA) as agricultural employment before age 16, and employment in certain other occupations before the age of 18. There are 17 work activities proscribed for children in non-agricultural occupations. These are referred to as Hazardous Orders.

Work Activities Prohibited to Workers Age 16-17 by FLSA (Non-agricultural Occupations)

- | | |
|--|--|
| 1) Manufacturing and Storing Explosives | 10) Slaughtering, or meat-packing, processing, or rendering |
| 2) Motor vehicle driving and outside helper | 11) Power-driven bakery machines |
| 3) Coal mining | 12) Power-driven paper-products machines |
| 4) Logging and sawmilling | 13) Manufacturing brick, tile, and kindred products |
| 5) Power-driven woodworking machines | 14) Power-driven circular saws, band saws, and guillotine shears |
| 6) Exposure to radioactive substances | 15) Wrecking, demolition, and ship-breaking operations |
| 7) Power-driven hoisting apparatus | 16) Roofing operations |
| 8) Power-driven metal-forming, punching, and shearing machines | 17) Excavation operations |
| 9) Mining, other than coal mining | |

These 17 Hazardous Orders are largely unchanged since 1937. Numbers 2, 5, 7, 14, 15, 16, and 17 are particularly relevant to the construction industry. These hazardous orders were the basis for the review of work activities as listed in Section III of this report, page 23.

\$500,000 Gross Income Exemption

Federal enforcement of hazardous orders is restricted by legislative action to business firms with gross annual income exceeding \$500,000, the threshold for Wage & Hour (WHD) enforcement of child labor laws. Whether young workers who take jobs in construction are more likely to be employed at small firms is unknown.

Study Methods

The study population consists of all U.S. construction workers with fatal work injury from April 1984 (when narrative reports were first included in the OSHA data) through 1998 whose deaths were investigated by OSHA. Excluded from the study are fatalities in California, Michigan, and Washington State for 1984-1989 which data were not maintained in a format compatible with federal data and so were not available from OSHA. We had obtained some of the OSHA data for previous studies (1984-89, 1990-94). We obtained a data tape for 1995-98. We then cleaned up the data, reformatted it into data sets suitable for analysis by Statistical Analysis System (SAS, Cary N.C.), and concatenated the data sets for the construction industry into a single analysis data set.

Simple descriptive statistics were calculated. For comparison of the frequency of various factors listed in the OSHA investigation reports (e.g., source of injury = hoisting apparatus) we used 2X2 tables comparing the factor of interest among teenage fatalities and the same factor for adults versus all other factors in that category and reported the results as odds ratios. We had originally proposed a 2XN analysis of the leading factors in each category but our statistical consultant Dr. Reading felt that 2X2 was more appropriate. Where statistical significance is reported as $p < .05$, the odds ratios excluded 1 at the 95% confidence interval.

Section III

Specific objective 1

The first specific objective was to compile the data set for analysis. We had available OSHA investigation data for 1984-89 in printed form and a data tape of OSHA investigations for 1990-1994. We obtained a data tape for 1995-1998, keypunched the needed 1984-89 records, and then transformed all of the data into fixed length records. Investigations of fatalities in Standard Industrial Classification 15, 16, and 17 were then merged into the analysis data set.

For period from April 1984 through December 1998 there were 9,344 fatal injuries in the construction industry which were investigated by OSHA. California, Michigan, and Washington State had state OSHA plans that did not contribute investigation reports to the federal OSHA database prior to 1990. The 1995-98 data tape abstract reports were incomplete for 1998 because of an OSHA policy change to review all abstracts for personal identifier information prior to addition to the publicly available data set.

There were 326 fatalities among teenagers and 9,018 fatalities among workers age 20 or older, for a total of 9,344. Some descriptive statistics are presented:

Fatal injuries in the construction industry investigated by OSHA 1984-1998

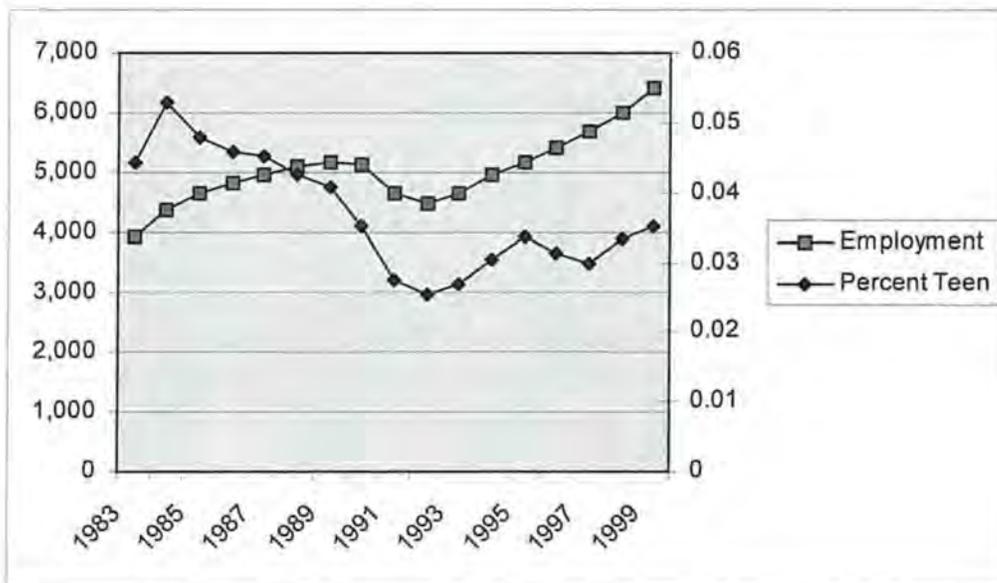
| | Teenagers | Workers age 20 or older | All workers |
|---|-----------|----------------------------|-------------|
| Males | 99% | 99% | 99% |
| Covered by collective bargaining agreements | 8% | 27% | 26% |
| At small firms with fewer than 11 employees | 41% | 28% | 28% |
| SIC 15 (General construction) | 11% | 13% | 13% |
| SIC 16 (Heavy construction) | 28% | 30% | 30% |
| SIC 17 (Special trades) | 61% | 57% | 57% |
| OSHA cited employer for safety violations | 81% | 72% | 73% |

Specific objective 2

Fatality rates

We proposed to calculate fatality rates for both teenage and adult construction workers using the fatalities investigated by OSHA for each group as the numerator and using employment data for the construction industry from the current population survey for 1984-1998. When we obtained and examined these data, however, the figures for teenage employment prior to 1990 varied in a manner suggesting sampling error. We also interpreted this to mean that the sampling method changed sometime after 1990, probably in 1993, and that using these data for the study period might not generate valid fatality rates for teenage workers if calculated year by year. We were unable to find better employment data for teenage construction workers. We discussed this problem with our NIOSH project office during Year I of the cooperative agreement.

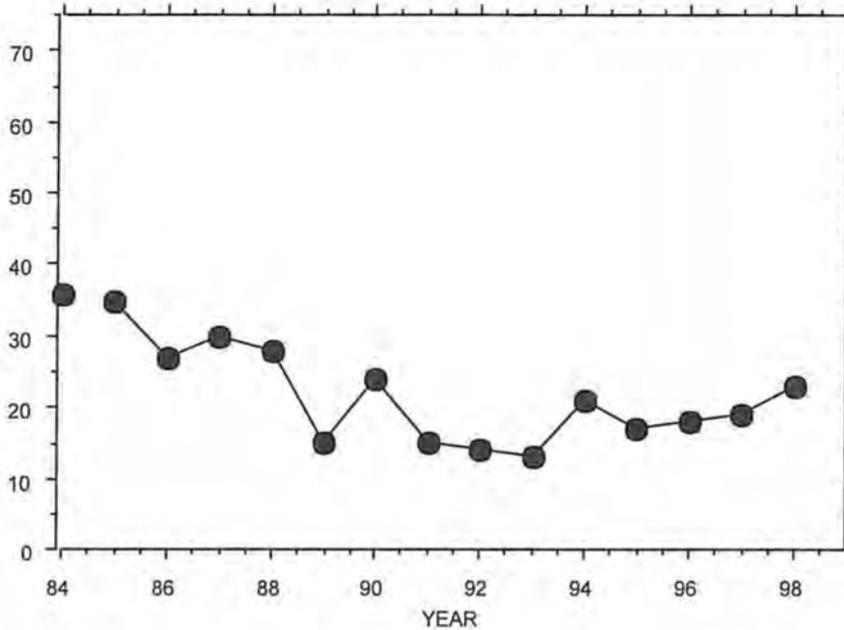
U.S. Construction Employment 1984-2000 and Percentage Teenage Construction Employment



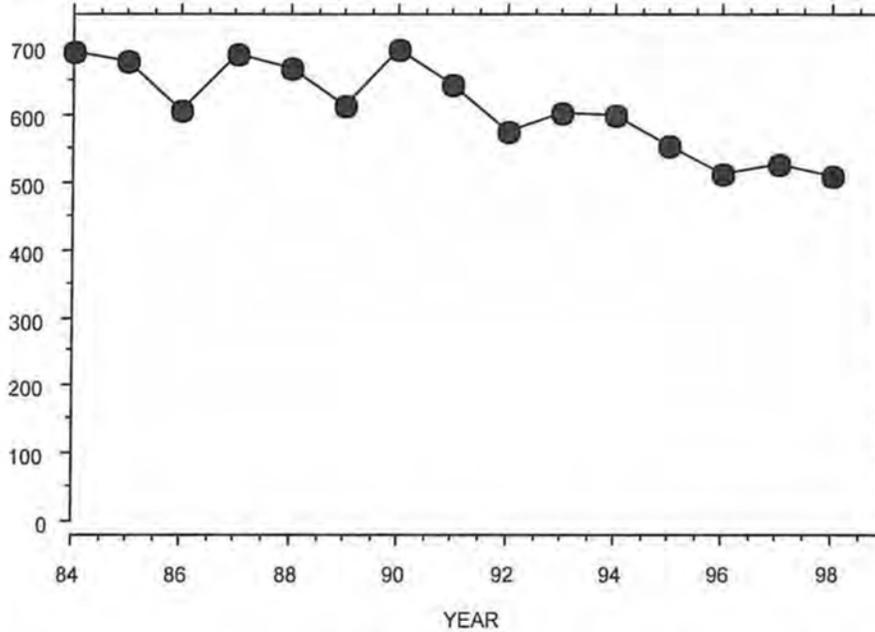
Using the above CPS data as the denominator, adjusted for the absence of three U.S. states for 1984-89, we find for the 15 year period:

| | Fatalities | Employment | Fatality Rate/10,000 |
|-----------|------------|------------|----------------------|
| Total | 9,344 | 72,792,000 | 1.28 |
| Teenagers | 326 | 2,698,370 | 1.19 |

Fatal Injuries to Teenage Construction Workers 1984-1998



Fatal Injuries to Adult Construction Workers 1984-1998



For the graphs above, fatal injuries in 1984 were adjusted to a full year. Frequency of fatal injury generally declined during the study period, even though after 1990 fatalities from California, Michigan, and Washington State were now included. The apparent rise in fatal injuries in teenagers after 1992 is largely due to inclusion of the above three states.

Specific objective 3

For this objective we proposed to test several null hypotheses:

Hypothesis: Factors recorded during the investigation of fatal young worker injury in construction do not differ from those for adults.

OSHA reports were coded as to nature of injury, part of body, source of injury, event type, and human factor. These codes are a modification of the ANSI Z16.2 standard for accident investigations. The codes are listed in Appendix G, Investigation Summary Codes, OSHA Integrated Management Information Systems Forms Manual, instruction ADM 1-1, 12A, April 1984. In the original proposal we assumed that 25 or fewer codes would account for at least 75% of the coding. This proved to be a conservative assumption. The number of codes in the following tables were chosen to represent at least 90% of the codes for the particular variable.

Nature of Injury as Coded on the OSHA Investigation Report of Fatal Injuries in the Construction Industry Ten most frequently cited codes, 1984-1998

| Teenage | | | Adult | | |
|---------|-----------|---------|-------|-----------|---------|
| NA | Frequency | Percent | NA | Frequency | Percent |
| 10 | 70 | 21.47 | 21 | 2222 | 24.64 |
| 21 | 64 | 19.63 | 12 | 1560 | 17.30 |
| 12 | 54 | 16.56 | 0 | 1505 | 16.69 |
| 0 | 53 | 16.26 | 10 | 1346 | 14.93 |
| 6 | 38 | 11.66 | 6 | 900 | 9.98 |
| 2 | 20 | 6.13 | 2 | 590 | 6.54 |
| 3 | 10 | 3.07 | 3 | 380 | 4.21 |
| 7 | 5 | 1.53 | 5 | 161 | 1.79 |
| 18 | 5 | 1.53 | 7 | 88 | 0.98 |
| 5 | 4 | 1.23 | 18 | 86 | 0.95 |

Legend:

0 = unknown

2= asphyxiation

3= bruise/contusion/abrasion

5= burn/scald (heat)

6= concussion

7 = cut/laceration

10= electric shock

12= fracture

18= puncture

21= other

Teenage workers were more likely than adults to be victims of electric shock (Odds Ratio (OR)=1.56, p<.05).

Part of Body as Coded on the OSHA Investigation Report
of Fatal Injuries in the Construction Industry
Ten most frequently cited codes, 1984-1998

| Teenage | | | Adult | | |
|---------|-----------|---------|-------|-----------|---------|
| PA | Frequency | Percent | PA | Frequency | Percent |
| 4 | 72 | 22.09 | 13 | 2106 | 23.89 |
| 13 | 70 | 21.47 | 4 | 1574 | 17.85 |
| 0 | 53 | 16.26 | 0 | 1474 | 16.72 |
| 5 | 37 | 11.35 | 19 | 1453 | 16.48 |
| 19 | 37 | 11.35 | 5 | 731 | 8.29 |
| 31 | 16 | 4.91 | 31 | 410 | 4.65 |
| 1 | 9 | 2.76 | 1 | 174 | 1.97 |
| 12 | 9 | 2.76 | 12 | 160 | 1.81 |
| 28 | 7 | 2.15 | 20 | 156 | 1.77 |
| 20 | 5 | 1.53 | 28 | 147 | 1.67 |

Legend:

0 = unknown or missing
1 = abdomen
4 = body system
5 = chest
12= hands

13= head
19= multiple
20= neck
28= lung
31= other body system

Teenage workers were somewhat less likely to suffer a fatal head injury than adults (OR = 0.9) but this was not statistically significant. The coding "body system" is commonly cited in cases of electric shock and was greater in teenagers than adults (OR=1.34, p<.05). Chest was cited more commonly for teenagers (OR=1.34) but this was not statistically significant.

Source of Injury as Coded on the OSHA Investigation Report
of Fatal Injuries in the Construction Industry
Fifteen most frequently cited codes, 1984-1998

| Teenage | | | Adult | | |
|---------|-----------|---------|-------|-----------|---------|
| SO | Frequency | Percent | SO | Frequency | Percent |
| 15 | 61 | 18.71 | 0 | 1474 | 16.72 |
| 0 | 53 | 16.26 | 15 | 1160 | 13.16 |
| 27 | 32 | 9.82 | 42 | 879 | 9.97 |
| 8 | 24 | 7.36 | 8 | 839 | 9.52 |
| 30 | 24 | 7.36 | 43 | 658 | 7.46 |
| 43 | 23 | 7.06 | 27 | 595 | 6.75 |
| 42 | 20 | 6.13 | 29 | 526 | 5.97 |
| 29 | 19 | 5.83 | 24 | 444 | 5.04 |
| 12 | 17 | 5.21 | 12 | 433 | 4.91 |
| 5 | 9 | 2.76 | 30 | 377 | 4.28 |
| 24 | 7 | 2.15 | 5 | 338 | 3.83 |
| 25 | 6 | 1.84 | 25 | 228 | 2.59 |
| 19 | 5 | 1.53 | 26 | 162 | 1.84 |
| 26 | 5 | 1.53 | 16 | 109 | 1.24 |
| 21 | 3 | 0.92 | 41 | 104 | 1.18 |

Legend:

| | |
|---------------------------------|----------------------------------|
| 0 = unknown or missing | 25= ladder |
| 5 = bodily motion | 26= machine |
| 8 = buildings/structures | 27= materials handling equipment |
| 12= dirt/sand/stone | 29= motor vehicle (highway) |
| 15= electrical apparatus/wiring | 30= motor vehicle (industrial) |
| 16= fire/smoke | 41= water |
| 19= gases | 42= working surface |
| 21= hand tool (powered) | 43= other |
| 24= hoisting apparatus | |

Teenage fatalities were more likely than adult to be coded as electrical apparatus/wiring (OR=1.56, p<.05), materials handling equipment (OR=1.54, p<.05), and motor vehicle (industrial) (OR=1.76, p<.05). Teenage fatalities were less likely to be coded as working surface (OR=0.61, p<.05); working surface is commonly coded as the source of injury for falls from elevation when the victim impacts a floor or other working surface. Teenage fatalities were somewhat more likely to be coded as dirt/sand/stone (OR=1.09) but this was not statistically significant.

We manually reviewed the report abstracts for the 24 fatalities coded as motor vehicle (industrial) to determine if any additional information could be found. There were a variety of vehicles mentioned:

Types of vehicles or equipment coded as “Motor Vehicle (industrial)”
for Source of Injury
For teenage construction fatalities, 1984-1998

| | | |
|---|---|----|
| Aerial lifts | | 2 |
| Backhoes | | 2 |
| Bulldozer | | 1 |
| Crane, crawler | | 2 |
| Earth compactor/roller | | 1 |
| Forklift | | 1 |
| Paving machine | | 1 |
| Power broom (road sweeper) | | 1 |
| Road grader | | 1 |
| Tractors | | 2 |
| Trucks | | 7 |
| Dump trucks | 4 | |
| Truck, unspecified | 1 | |
| Water truck | 1 | |
| Pickup truck | | |
| Wheeled vehicle, unspecified as to type | | 1 |
| Narrative information missing | | 2 |
| Total | | 24 |

In all seven of the reports involving trucks the victim was on the ground and was struck by a vehicle. For the remainder, some victims were equipment operators and others bystanders. There were 9 fatalities during street or highway construction, 11 during other activities, and in 4 cases the information concerning work activity was insufficient to determine the type of construction activity.

For comparison we reviewed a convenience sample of 76 fatalities in the same category of “motor vehicles (industrial)” which OSHA investigated among older workers. The results are shown on the following page.

Types of vehicles or equipment coded as “Motor Vehicle (industrial)”
for Source of Injury
For a sample of adult construction fatalities, 1984-1998

| | | |
|-------------------------------|----|----|
| Aerial lifts | | 1 |
| Automobile | | 2 |
| Backhoes | | 2 |
| Bulldozers and loaders | | 14 |
| Crane | | 2 |
| Ditching machine | | 1 |
| Earth compactor/roller | | 9 |
| Forklift | | 4 |
| Paving machine | | 1 |
| Road grader | | 10 |
| Tractors | | 7 |
| Trash compactor | | 1 |
| Trucks | | 18 |
| Dump trucks | 12 | |
| Truck, unspecified | 3 | |
| Water truck | 2 | |
| Concrete truck | 1 | |
| Trimmer machine | | 1 |
| Narrative information missing | | 3 |
| Total | | 76 |

Fatality reports for teenage workers were more likely to mention trucks (OR=1.33) but this was not statistically significant. Other than for the increased number of bulldozers and loaders for adults the distribution of equipment does not appear greatly different from that for teenage fatalities. Of the 76 adult fatalities reviewed, 32 (42%) were engaged in street or highway construction, 40 (53%) were engaged in other activities, and in 4 (5%) the narrative information was missing or insufficient to determine the exact activity. These percentages were not significantly different from those found for teenagers.

To further investigate the question of whether street and highway construction was related to fatal injuries to teenage construction workers, we compared the SIC codes of employers:

**Standard Industrial Classification of Employers
of Fatally Injured Workers in the Construction Industry
Fifteen most frequent codes, 1984-1998**

| Teenage | | | Adult | | |
|---------|-----------|---------|-------|-----------|---------|
| SIC | Frequency | Percent | SIC | Frequency | Percent |
| 1623 | 38 | 11.66 | 1623 | 1054 | 11.69 |
| 1761 | 38 | 11.66 | 1611 | 824 | 9.14 |
| 1611 | 28 | 8.59 | 1761 | 689 | 7.64 |
| 1731 | 26 | 7.98 | 1731 | 683 | 7.57 |
| 1629 | 22 | 6.75 | 1791 | 626 | 6.94 |
| 1799 | 22 | 6.75 | 1629 | 567 | 6.29 |
| 1794 | 19 | 5.83 | 1799 | 564 | 6.25 |
| 1542 | 16 | 4.91 | 1542 | 518 | 5.74 |
| 1711 | 14 | 4.29 | 1711 | 465 | 5.16 |
| 1741 | 13 | 3.99 | 1721 | 363 | 4.03 |
| 1751 | 13 | 3.99 | 1622 | 343 | 3.80 |
| 1791 | 11 | 3.37 | 1794 | 307 | 3.40 |
| 1771 | 10 | 3.07 | 1541 | 272 | 3.02 |
| 1795 | 10 | 3.07 | 1741 | 259 | 2.87 |
| 1721 | 9 | 2.76 | 1795 | 234 | 2.59 |

Teenage fatalities were no more likely than adults to be coded in SIC 1611, street & highway construction. Teenagers were more likely to be coded in SIC 1761, roofing, siding & sheet metal work (OR=1.18) but this was not statistically significant. Teenagers were less likely than adults to be coded in SIC 1791, structural steel erecting (OR=0.47, p<.05). It is noteworthy that the two most frequently sited codes for teenagers were 1623, water, sewer, pipeline, and communications and power line construction and 1761. A major activity for SIC 1623 contractors is trench and excavation work, which is covered by an existing hazardous order. A major activity for SIC 1761 is roofing, which is also covered by an existing hazardous order.

We manually reviewed the report abstracts for the 32 fatalities coded as materials handling equipment to determine if any additional information could be found. There were a variety of equipment:

Types of Materials Handling Equipment coded as Source of Injury For teenage construction fatalities, 1984-1998

| | | |
|------------------------|---|----|
| Backhoe | | 4 |
| Bulldozers and loaders | | 11 |
| Crane (mobile) | | 5 |
| Crane (overhead) | | 1 |
| Forklift | | 2 |
| Missing information | | 3 |
| Road grader | | 1 |
| Tractor | | 2 |
| Truck | | 3 |
| Dump truck | 2 | |
| Truck, unspecified | 1 | |
| Total | | 32 |

The majority of bulldozer and loader-related fatalities were bystander fatalities.

We then reviewed a convenience sample of adult fatalities whose source of injury was also coded as materials handling equipment (see following page).

Types of Materials Handling Equipment coded as Source of Injury
 For a sample of adult construction fatalities, 1984-1998

| | | |
|-------------------------------|---|-----|
| Aerial lifts | | 2 |
| Backhoes | | 14 |
| Bulldozers and loaders | | 24 |
| Compactor/Roller | | 2 |
| Concrete pumper | | 1 |
| Cranes (mobile) | | 31 |
| Crane (barge) | | 1 |
| Drill, rock | | 1 |
| Forklift | | 6 |
| Grader/paver | | 9 |
| Narrative information missing | | 5 |
| Tractor | | 4 |
| Trucks | | 9 |
| Dump trucks | 8 | |
| Truck, unspecified | 1 | |
| Total | | 109 |

The proportion of fatal injuries involving cranes was decreased among teenagers compared to adults (OR =0.56) but this was not statistically significant. The proportion of fatal injuries involving bulldozers and loaders was increased among teenagers (OR=1.86) but this was also not statistically significant.

Event Type as Coded on the OSHA Investigation Report
of Fatal Injuries in the Construction Industry
Ten most frequently cited codes, 1984-1998

| Teenage | | | Adult | | |
|---------|-----------|---------|-------|-----------|---------|
| EV | Frequency | Percent | EV | Frequency | Percent |
| 1 | 77 | 23.62 | 5 | 2525 | 28.00 |
| 5 | 65 | 19.94 | 1 | 1889 | 20.95 |
| 0 | 53 | 16.26 | 0 | 1505 | 16.69 |
| 13 | 53 | 16.26 | 13 | 1039 | 11.52 |
| 2 | 38 | 11.66 | 2 | 898 | 9.96 |
| 12 | 14 | 4.29 | 14 | 396 | 4.39 |
| 14 | 10 | 3.07 | 12 | 366 | 4.06 |
| 8 | 7 | 2.15 | 6 | 169 | 1.87 |
| 6 | 6 | 1.84 | 8 | 127 | 1.41 |
| 3 | 1 | 0.31 | 4 | 49 | 0.54 |

Legend:

| | |
|---------------------------|---|
| 0 = unknown or missing | 6 = struck against |
| 1 = struck by | 8 = inhalation |
| 2 = caught in or between | 12= cardiovascular/respiratory system failure |
| 3 = bite/sting/scratch | 13= shock |
| 4 = fall (same level) | 14= other |
| 5 = fall (from elevation) | |

Teenage fatalities were more likely than adults to be coded as shock (OR=1.49, $p<.05$) and were somewhat more likely to be coded as caught in or between (OR=1.15) and struck by (OR=1.16) but these were not statistically significant. Teenage fatalities were less likely than adult to be coded as falls from elevation (OR=0.64, $p<.05$).

Environmental Factor as Coded on the OSHA Investigation Report
of Fatal Injuries in the Construction Industry
Ten most frequently cited codes, 1984-1998

| Teenage | | | Adult | | |
|---------|-----------|---------|-------|-----------|---------|
| EN | Frequency | Percent | EN | Frequency | Percent |
| 18 | 70 | 21.47 | 18 | 2158 | 23.93 |
| 13 | 59 | 18.10 | 13 | 2122 | 23.53 |
| 0 | 53 | 16.26 | 0 | 1505 | 16.69 |
| 8 | 44 | 13.50 | 6 | 962 | 10.67 |
| 6 | 41 | 12.58 | 8 | 933 | 10.35 |
| 4 | 22 | 6.75 | 4 | 383 | 4.25 |
| 7 | 8 | 2.45 | 5 | 195 | 2.16 |
| 17 | 6 | 1.84 | 7 | 151 | 1.67 |
| 1 | 5 | 1.53 | 1 | 138 | 1.53 |
| 14 | 5 | 1.53 | 17 | 137 | 1.52 |

Legend:

- 0 = unknown or missing
- 1 = pinch point action
- 4 = squeeze point action
- 5 = flying object action
- 6 = overhead moving and/or falling object action
- 7 = gas/vapor/mist/fume/smoke/dust condition
- 8 = materials handling equipment/method
- 13= working surface/facility layout condition
- 14= illumination
- 17= weather/earthquake etc. condition
- 18= other

Teenage fatalities were less likely than adults to be coded as working surface/facility layout condition (OR=0.72, p<.05). Working surface/facility layout condition is commonly coded in falls from elevation in which the victim impacts a floor or other working surface. Teenage fatalities were somewhat more likely to be coded as materials handling equipment/method (OR=1.35) and overhead moving and/or falling object action (OR=1.20) but these were not statistically significant.

Human Factor Codes on the OSHA Investigation Report
of Fatal Injuries in the Construction Industry
Fifteen most frequently cited codes, 1984-1998

| Teenage | | | Adult | | |
|---------|-----------|---------|-------|-----------|---------|
| HU | Frequency | Percent | HU | Frequency | Percent |
| 1 | 126 | 38.65 | 1 | 3126 | 34.66 |
| 0 | 53 | 16.26 | 0 | 1505 | 16.69 |
| 9 | 20 | 6.13 | 14 | 764 | 8.47 |
| 11 | 18 | 5.52 | 9 | 652 | 7.23 |
| 14 | 17 | 5.21 | 4 | 516 | 5.72 |
| 4 | 16 | 4.91 | 6 | 469 | 5.20 |
| 6 | 16 | 4.91 | 20 | 384 | 4.26 |
| 18 | 14 | 4.29 | 10 | 350 | 3.88 |
| 10 | 11 | 3.37 | 11 | 321 | 3.56 |
| 17 | 7 | 2.15 | 18 | 253 | 2.81 |

Legend:

- 0 = unknown or missing
- 1 = misjudgement of hazardous situation
- 4 = malfunction of procedure for securing operation or warning of hazardous situation
- 6 = equipment in use not appropriate for operation or process
- 9 = safety devices removed or inoperative
- 10= operational position not appropriate for task
- 11= procedure for handling materials not appropriate for task
- 14= other
- 17= insufficient or lack of engineering controls
- 18= insufficient or lack of written work practice program
- 20= insufficient or lack of protective work clothing and equipment

Teenage fatalities were somewhat more likely than adult to be coded misjudgement of hazardous situation (OR=1.18) and somewhat less likely to be coded safety devices removed or inoperative (OR=0.84) but these were not statistically significant.

Hypothesis: There is no difference in the proportion of teenage vs. adult construction workers who die from work injury in firms with fewer than 11 employees compared to larger firms.

In this analysis we excluded firms whose employment size was zero because it was not clear whether these were self-employed individuals, partnerships, or represented missing values.

| | Teenage | Adult |
|---|---------|-------|
| Fatalities in firms with 1-10 employees | 101 | 1,952 |
| Fatalities in firms with 11 or more employees | 148 | 4,910 |
| Total* | 249 | 6,862 |

* excludes firms with missing data or zero for firm size

The Odds ratio (OR) for teenagers construction workers being employed at a small firm compared to adults was 1.72 ($p < .05$). When examined by SIC category, the OR for SIC 15 (general construction) was 1.67 (not statistically significant), for SIC 16 (heavy construction) the OR was 2.24 ($p < .05$), and for SIC 17 (special trade construction) the OR was 1.49 ($p < .05$).

Hypothesis: Fatalities among teenage and adult construction workers do not differ with respect to whether the employer had a collective bargaining agreement with a labor union.

| | Teenage | Adult |
|-----------|---------|-------|
| Non-union | 304 | 6,635 |
| Union | 22 | 2,383 |
| Total | 326 | 9,018 |

The OR for teenage construction workers who were fatally injured being employed at a firm that did not have a collective bargaining agreement with a labor union was 4.96 ($p < .05$).

Specific objective 4

Estimation of employer gross annual income

Federal authority for enforcement of hazardous orders during the study period 1984-1998 was limited to business establishments with a gross annual income of \$500,000. The Census of Construction is a census of employers done every five years which provides information on gross annual income and number of employees for the various standard industrial classifications (SIC) which comprise the construction industry. We used this Census to estimate employer gross annual income from the OSHA inspection data.

We estimated employer gross annual income for the business establishments which employed the 16- and 17-year olds who sustained fatal injuries investigated by OSHA during the study period. There were 76 fatalities. These are listed on the following pages, along with whether there was an apparent violation of child labor laws. How we determined apparent violations of child labor laws is described in the next section of this report, pages 23-25.

Firms below the \$500,000 gross income threshold were more likely to have apparent violations of child labor laws (OR=1.52) but this was not statistically significant.

Using estimated gross annual employer income, 41 (54%) of the 76 fatal injuries in workers less than 18 years old were at firms whose income exceeded \$500,000. If the income level were lowered by legislative action to \$250,000, the percentage covered by federal enforcement would rise to 79%. If the threshold were lowered to \$100,000, all but one of the fatalities would have been covered.

Estimated Employer Gross Annual Income and Apparent Violation of Child Labor Laws

| | CASE | YEAR | SIC | Employees | Income | Apparent Violation |
|---------------------------------|------|------|------|-----------|-------------------|--------------------|
| 1 | 5 | 85 | 1751 | 2 | \$93,976 | 1 |
| 2 | 27 | 89 | 1711 | 1 | \$153,326 or less | 0 |
| 3 | 15 | 84 | 1796 | 2 | \$164,354 | 0 |
| 4 | 32 | 88 | 1629 | 2 | \$167,503 | 1 |
| 5 | 63 | 95 | 1761 | 0 | \$173,187 or less | 1 |
| 6 | 30 | 88 | 1761 | 3 | \$183,640 | 1 |
| 7 | 2 | 85 | 1711 | 3 | \$184,835 | 1 |
| 8 | 73 | 98 | 1761 | 2 | \$192,803 | 1 |
| 9 | 64 | 95 | 1795 | 0 | \$205,162 or less | 1 |
| 10 | 69 | 97 | 1794 | 2 | \$205,867 | 1 |
| 11 | 60 | 95 | 1629 | 2 | \$208,749 | 0 |
| 12 | 46 | 92 | 1761 | 3 | \$211,934 | 1 |
| 13 | 65 | 96 | 1623 | 2 | \$212,028 | 1 |
| 14 | 74 | 98 | 1623 | 1 | \$212,028 or less | 0 |
| 15 | 7 | 85 | 1731 | 3 | \$212,206 | 0 |
| 16 | 44 | 92 | 1741 | 5 | \$219,320 | 0 |
| 17 | 56 | 94 | 1799 | 3 | \$252,272 | 0 |
| 18 | 14 | 84 | 1721 | 8 | \$260,205 | 1 |
| 19 | 51 | 93 | 1795 | 3 | \$277,123 | 0 |
| 20 | 50 | 93 | 1761 | 4 | \$281,701 | 1 |
| 21 | 6 | 85 | 1751 | 7 | \$304,700 | 1 |
| 22 | 35 | 90 | 1731 | 5 | \$308,412 | 0 |
| 23 | 10 | 86 | 1771 | 3 | \$312,082 | 0 |
| 24 | 53 | 94 | 1711 | 4 | \$318,484 | 0 |
| 25 | 55 | 94 | 1799 | 4 | \$327,117 | 0 |
| 26 | 25 | 89 | 1771 | 4 | \$341,246 | 0 |
| 27 | 29 | 87 | 1629 | 5 | \$367,159 | 1 |
| 28 | 12 | 86 | 1623 | 5 | \$375,307 | 1 |
| 29 | 23 | 87 | 1623 | 5 | \$395,130 | 1 |
| 30 | 17 | 86 | 1795 | 6 | \$396,091 | 0 |
| 31 | 36 | 90 | 1761 | 7 | \$403,808 | 1 |
| 32 | 47 | 93 | 1751 | 7 | \$422,454 | 1 |
| 33 | 21 | 87 | 1521 | 5 | \$422,953 | 0 |
| 34 | 39 | 91 | 1623 | 5 | \$444,505 | 1 |
| 35 | 37 | 90 | 1791 | 7 | \$450,934 | 0 |
| <hr/> | | | | | | |
| (Current enforcement threshold) | | | | | | |
| 36 | 76 | 98 | 1751 | 7 | \$500,880 | 0 |
| 37 | 66 | 96 | 1771 | 7 | \$502,622 | 0 |
| 38 | 57 | 94 | 1721 | 10 | \$517,693 | 0 |
| 39 | 20 | 87 | 1521 | 7 | \$564,361 | 1 |
| 40 | 49 | 93 | 1791 | 8 | \$596,535 | 0 |

Note: a detailed listing of apparent violations begins on p.24

| CASE | YEAR | SIC | Employees | Income | Apparent Violation | |
|------|------|-----|-----------|--------|---------------------|---|
| 41 | 52 | 94 | 1541 | 3 | \$616,887 | 0 |
| 42 | 54 | 94 | 1611 | 6 | \$683,116 | 0 |
| 43 | 59 | 94 | 1771 | 10 | \$715,378 | 1 |
| 44 | 67 | 96 | 1799 | 9 | \$730,691 | 0 |
| 45 | 34 | 90 | 1751 | 12 | \$741,667 | 1 |
| 46 | 8 | 84 | 1791 | 13 | \$744,523 | 0 |
| 47 | 31 | 87 | 1731 | 12 | \$751,042 | 0 |
| 48 | 13 | 84 | 1795 | 15 | \$777,549 or more | 1 |
| 49 | 70 | 97 | 1751 | 10 | \$783,720 | 0 |
| 50 | 3 | 86 | 1742 | 150 | \$829,647 or more | 0 |
| 51 | 26 | 89 | 1731 | 25 | \$944,496 or more | 1 |
| 52 | 38 | 91 | 1542 | 6 | \$965,091 | 1 |
| 53 | 11 | 86 | 1623 | 12 | \$973,087 | 0 |
| 54 | 43 | 92 | 1623 | 11 | \$1,023,661 | 0 |
| 55 | 9 | 84 | 1731 | 40 | \$1,044,158 or more | 0 |
| 56 | 4 | 85 | 1796 | 70 | \$1,050,168 or more | 0 |
| 57 | 19 | 88 | 1794 | 16 | \$1,073,678 or more | 1 |
| 58 | 1 | 85 | 1623 | 179 | \$1,082,096 or more | 1 |
| 59 | 22 | 88 | 1795 | 30 | \$1,087,009 or more | 1 |
| 60 | 42 | 91 | 1794 | 65 | \$1,089,397 or more | 1 |
| 61 | 61 | 95 | 1731 | 50 | \$1,133,013 or more | 0 |
| 62 | 16 | 86 | 1623 | 30 | \$1,156,510 or more | 0 |
| 63 | 45 | 92 | 1799 | 15 | \$1,178,290 | 0 |
| 64 | 62 | 95 | 1542 | 6 | \$1,179,467 | 1 |
| 65 | 68 | 97 | 1761 | 28 | \$1,186,200 or more | 1 |
| 66 | 71 | 97 | 1791 | 16 | \$1,437,537 or more | 0 |
| 67 | 72 | 97 | 1629 | 40 | \$1,613,759 or more | 1 |
| 68 | 41 | 91 | 1611 | 100 | \$1,632,920 or more | 1 |
| 69 | 40 | 91 | 1542 | 10 | \$1,739,813 | 1 |
| 70 | 48 | 93 | 1611 | 150 | \$1,752,898 or more | 0 |
| 71 | 24 | 87 | 1541 | 6000 | \$1,832,804 or more | 0 |
| 72 | 28 | 89 | 1522 | 90 | \$2,039,212 or more | 0 |
| 73 | 33 | 88 | 1522 | 15 | \$2,039,212 or more | 1 |
| 74 | 18 | 88 | 1542 | 9999 | \$2,134,896 or more | 0 |
| 75 | 75 | 98 | 1611 | 25 | \$3,433,570 or more | 1 |
| 76 | 58 | 94 | 1622 | 190 | \$4,232,829 or more | 1 |

Note: a detailed listing of apparent violations begins on p.24

Specific objective 5

Fatalities involving work performed in apparent violation of hazardous orders.

Of the 326 fatalities among teenage construction workers which were investigated by OSHA for the years 1984-1998, there were 76 fatalities in workers less than age 18. These fatality reports numbered 1 through 76 are included in Appendix A.

The narrative descriptions from the OSHA investigation reports were then independently reviewed as in a previous study (Suruda & Halperin) by an occupational medicine physician (AS) and an industrial hygienist (DL) who were familiar with hazardous orders. Each report was evaluated with respect to age violations (less than 16 years of age) and specific hazardous orders (listed above on page 3). A mechanical engineer who was a safety specialist (RS) also reviewed the reports and served as a tie-breaker in case of disagreement of the two initial reviewers.

The most frequently violated hazardous orders were trenching work and roofing (9 each), followed by operating a motor vehicle or being an outside helper (5), demolition work (3), operating a power saw (2), and operation of powered hoisting apparatus (1). There were 15 age violations. A total of 37 (49%) were in apparent violation of child labor laws. A list of cases and apparent violations is on the following page.

We were conservative in making the determination of an apparent violation of hazardous orders and so the true number might be greater. For example, we made the determination concerning operation of a motor vehicle or being an outside helper for work involving highway vehicles only. There was one fatality of a young worker who was operating a paving roller which overturned (case #42) and another fatality where the young worker was operating a power broom (case #48) which overturned; we did not consider these as highway vehicles. There was no abstract available for review for case #70, which was an electrocution. In case #52 a 16 year old who was working with his father fell through roof insulation that was not covered by roof decking. There was insufficient information in the report abstract to determine whether this contractor was performing roofing operations.

Other fatalities

Of the 39 fatalities for which we did not determine apparent violations of hazardous orders, there were 14 deaths from electrocution, 14 deaths from being struck by falling objects or equipment, 9 from falls, and two drownings. Of the 14 electrocutions, 8 were from service voltage (110 through 277 volts A.C.), 5 were from power line contact with high voltage, and there were no details available for one case (#70).

Listing of Fatality reports for workers less than 18 years of age with respect to apparent violation of hazardous orders.

Legends:

HazOrder = Apparent violation of a hazardous order

Age = Worker less than 16 years of age, an age violation

AnyViolation = Either an age or hazardous order violation

Apparent violations were found for trenching, demolition work, roofing, operation of powered hoisting apparatus, driving a motor vehicle or being an outside helper, and using a power saw.

| CASE | HazOrder | Age | Trench | Demolition | Roof | Hoist | MotorVeh | PowerSaw | AnyViolation |
|------|----------|-----|--------|------------|------|-------|----------|----------|--------------|
| 1 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 2 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 5 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 6 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 |
| 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 12 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 13 | 1 | 1 | 0 | 1 | 0 | 1 | 0 | 0 | 1 |
| 14 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 19 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 20 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 22 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 23 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 25 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 26 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 27 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 28 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 29 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 30 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 31 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 32 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 33 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 34 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 35 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| CASE | HazOrder | Age | Trench | Demolition | Roof | Hoist | MotorVeh | PowerSaw | AnyViolation |
|--------|----------|-----|--------|------------|------|-------|----------|----------|--------------|
| 36 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 37 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 38 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 39 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 40 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 41 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 42 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 43 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 44 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 45 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 46 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 47 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 48 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 49 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 50 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 51 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 52 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 53 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 54 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 55 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 56 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 57 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 58 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 59 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 60 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 61 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 62 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 63 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 64 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 1 |
| 65 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 66 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 67 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 68 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 69 | 1 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 70 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 71 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 72 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 73 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 0 | 1 |
| 74 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 75 | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 0 | 1 |
| 76 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Totals | 28 | 15 | 9 | 3 | 9 | 1 | 5 | 2 | 37 |

Section IV

Discussion

The fatality rate for the construction industry for the period 1984-1998 using OSHA investigation data was 1.28 per 10,000 workers per year. This compares favorably to the fatality rate listed on the NIOSH web site for the construction industry for 1980-1995 of 1.52 per 10,000 workers per year. We had expected that OSHA would have investigated the majority of fatal injuries in the construction industry. Certain types of fatalities such as motor vehicle crashes and homicides would not normally be investigated by OSHA. The fatality rate for teenage construction workers was somewhat lower than for adults, which is consistent with findings from CFOI (Windau, Sygnatur, and Toscano, 1999).

In comparing our findings to CFOI, for the years 1992-1995 in the construction industry there were 102 fatal injuries to teenagers (Derstine, 1996). We found 65 fatalities for the same period, which is consistent with OSHA investigating the majority of construction fatalities.

OSHA cited the employer for safety violations more frequently (81% of fatalities) when the victim was a teenager rather than an adult (72% of fatalities). We tested the hypothesis that factors related to fatal injury would not differ between teenagers and adults. OSHA compliance officers record several factors derived from the American National Standards Institute Z16.2 standard. Investigations of teenage fatalities were significantly more likely to be coded as electric shock, body system, and electrical apparatus/wiring, all of which describe or are related to electrocution. Teenage fatalities were also significantly more likely to be coded as motor vehicle (industrial) and materials handling equipment. Review of individual case reports for these latter two categories and a sample of adult fatalities in the same categories showed a variety of equipment with no one type predominating for teenage fatalities. The same types of equipment were found in both the category motor vehicle (industrial) and materials handling equipment. It appeared that if, for example, a bulldozer was carrying a load and was involved in a fatality it was more likely to be coded as materials handling equipment, while if it was traveling through a construction site without a load it would be coded motor vehicle (industrial). There is no specific coding in OSHA reports for whether a vehicle had a back-up alarm. Some of the narrative reports of investigations mentioned back-up alarms, and in all cases where this was mentioned the alarms were functioning.

Teenage fatalities were significantly less likely to be coded as falls and the related category working surface/facility layout condition. Whether the lower frequency of fatal falls in teenagers was due to biological factors such as better balance or the better ability of the young to survive injury, or to exposure factors such as not working at elevation as frequently as adults, such as in structural steel erecting, or differences in the use of personal protective equipment cannot be determined from the data available.

Whenever multiple comparisons of categories with many entries are made, such as with the OSHA report codes, it is possible that significant differences will be found at the $p < .05$ level by chance

alone. That a particular finding is due to chance is lessened when the finding is consistent across categories, such as was found for electric shock and for falls.

The OSHA categories for coding are broad and coding by compliance officers appears to be inconsistent for some categories. The coding in the reports is of value in that it has not changed since 1984 and so allows comparisons between various groups for a period of time greater than that available from CFOI, which began in 1992.

Review of the narrative reports for teenage electrocutions indicated slightly greater numbers of fatalities from service voltage (e.g., 110V AC) than from contact with high voltage power lines. The narrative reports of fatalities from motor vehicles (industrial) and materials handling equipment indicated that bystander fatalities were frequent for trucks and for bulldozers and loaders.

Contractors who employed fatally injured teenagers were most frequently trenching & excavation (SIC 1623), followed by roofing (SIC 1761). For the years 1992-1997 CFOI found the most frequent classes to be roofing and concrete work (Windau, Sygnatur, & Toscano, 1999).

Teenage fatalities were more likely than adults to occur at small firms with fewer than 11 employees (OR= 1.72) and far more likely to be at non-union firms (OR= 4.96).

We evaluated the 76 fatalities among workers less than 18 years old to determine whether the work activity described in the OSHA investigation report was in apparent violation of existing hazardous orders. Approximately one half (49%) were in violation of existing hazardous orders. The most frequently violated hazardous orders were trenching work and roofing (9 each), followed by operating a motor vehicle or being an outside helper (5), demolition work (3), operating a power saw (2), and operation of powered hoisting apparatus (1). There were 15 age violations.

Of the 39 fatalities for which we did not determine apparent violations of hazardous orders, there were 14 deaths from electrocution, 14 deaths from being struck by falling objects or equipment, 9 from falls, and two drownings. There was no single work activity which appeared to call for creation of a new hazardous order. However, the number of fatalities was small and it is possible that evaluating non-fatal injuries or a larger sample of fatal injuries might identify particularly dangerous activities, such as street and highway construction.

The \$500,000 employer gross income threshold exempted 46% of fatalities in construction workers less than 18 years of age from federal enforcement. This is slightly more restrictive than for OSHA routine (general) inspections, in which employers with fewer than 11 employees are exempt, which would have applied to 41% of fatalities in the same age group. If the employer gross income exemption is not adjusted for inflation it will eventually equal the OSHA inspection exemption with respect to construction firm size.

We noted in the application for this cooperative agreement that there were no fatal youth work injuries investigated by the federal Wage & Hour division for the years 1989 through 1994. It is evident from the estimated gross incomes shown on pages 22 and 23 that in 1989-94 there were 16

fatalities in the construction industry alone in workers less than age 18 whose employers met the threshold for federal enforcement, and 8 of these cases had apparent violations of child labor laws. This indicates a lack of communication between local authorities, OSHA, and the W&H division during this period. Secretary Dole issued an executive order requiring OSHA to refer child labor violations to W&H, but we are not aware of a way to track compliance with this order from publicly available OSHA inspection data as there is no item in the inspection report to record the referral.

The findings of this study indicate the need for training for employers and young workers in non-union small firms, particularly with respect to existing hazardous orders, electrical work, and work in the vicinity of power lines and large vehicles such as in street and highway construction. NIOSH (1999) has previously identified the high risk of non-fatal injury in small business firms.

The findings of this study are not robust enough to recommend that specific new hazardous orders be promulgated. Additional research concerning the hazards of street and highway construction, or of hazards related to industrial vehicles for young workers should be considered.

Acknowledgments

We thank the many professionals at the U.S. Occupational Safety & Health Administration who have assisted us with data and advice, including Bruce Beveridge, Robert Curtis, Sanford Hamilton, and Thomas Tyburski. Brian Nordberg of the Intermountain Injury Control Research Center at the University of Utah performed the data transformation. We also thank our NIOSH project officer Ms. Stephanie Pratt.

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Appendix A

to: Young Worker Fatal Injury in Construction

Narrative and other information for fatality reports 1-76

Note: These reports were obtained over several years time. The formatting of the OSHA reports changed during this period, and the amount of other information printed on the same page as the narrative report varies.

March, 2002

Cooperative agreement number U60/CCU817182

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0625400 AUSTIN
 EVENT TIME: 0 OSHA-170 NR: 14511018
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN HR | S E X | A G E | I N J T | H A D Y | P D Y | S R C | E V T | E N V M | H U M | T U M | SUBS CODE | OCC CDE |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|------------------|------------------|-------------|-------------|-------------|------------------|-------------|-------------|--------------|------------|
| 100295948 | 1623 | 179 | 9 | 1 M | 16 | 1 | 2 | 4 | 12 | 1 | 6 | 1 | 1 | | 0 | |

EVENT TYPE: TRENCH CAVE-IN

EVENT KEYWORDS:

ASBTRACT:

ON THE 6TH OF NOVEMBER 1985 AT APPROXIMATELY 9:30 AM, EMPLOYEE #1 AND OTHER LABORERS WERE LAYING A 15" SEWER LINE PIPE IN A TRENCH THAT WAS APPROXIMATELY 50' IN LENGTH, 30" IN WIDTH, AND 9 1/2' IN DEPT. ONE LABORER SIGNALLED THE LEADMAN TO DUMP A LOAD OF GRAVEL THAT WAS BEING USED FOR BEDDING. THE LEADMAN SIGNALLED THE FRONTEND LOADER OPERATOR TO MOVE CLOSER TO THE BANK OF THE TRENCH TO DUMP A LOAD OF GRAVEL. AS HE GOT CLOSER TO THE BANK THE WEST WALL OF THE TRENCH CAVED-IN COVERING EMPLOYEE #1 WITH SOIL. WALLS OF THE TRENCH WERE VERTICAL AND NO SLOPING, NO SHORING AND NO TRENCH BOX WAS PROVIDED.

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0626300 DALLAS
 EVENT TIME: 0 OSHA-170 NR: 14400139
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LNR NR | S E X | A G E | I N J | N A T Y | P D Y | S R C | E V T | E N V M K | H U M K | T S K | SUBS CODE | OCC CDE |
|----------------------|------|--------------|--------------|------------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-----------------------|------------------|-------------|--------------|------------|
| 100315860 | 1711 | 3 | 3 | 1 M 2 M | 52 16 | 1 1 | 12 12 | 19 19 | 12 12 | 2 2 | 4 4 | 4 4 | 1 1 | | | |

EVENT TYPE: TRENCH CAVE-IN

EVENT KEYWORDS:

ASBTRACT:

ONE EMPLOYEE AND THE OWNER OF THE COMPANY WERE LAYING 10" PIPE IN A TRENCH 12.5 TO 13 FEET DEEP AND A LENGTH OF 22 FEET AND 24' WIDE THIS TRENCH WAS NOT SLOPED AT ALL AND NO SHORING HAD BEEN DONE A LARGE CHUNK OF DIRT HAD MORE FROM THE MIDDLE OF THE WEST WALL PINNING D TO THE EAST WALL HAD STARTED OUT OF THE TRENCH BUT WENT BACK IN TO HELP BETWEEN THEM THE WHOLE WEST SIDE OF THE TRENCH CLOSED BURYING BOTH OF THEM IF PAUL HAD LIVED HE WOULD HAVE BEEN CITED HOWEVER HE DID NOT AND HE WAS THE ONLY ONE THAT HAD EMPLOYEES ON SITE GENERAL CONTRACTOR HAD NO REPRESENTATIVE ON SITE OR ANY EMPLOYEES

2

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0418800 FT. LAUDERDALE
 EVENT TIME: 0 OSHA-170 NR: 14526446
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A G E | I N J T | N A T Y | P D Y | S R C | E V T | E N V M K | H U M K | T S C O D E | OCC CDE | EVENT DT (OSHA36) | OPENDATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|------------------|------------------|-------------|-------------|-------------|-----------------------|------------------|----------------------------|------------|----------------------|----------------------|
| 2455467 | 1742 | 150 | 23 | 1 | M | 17 | 1 | 12 | 19 | 5 | 5 | 18 | 1 | 1 | 0 | 10/31/85 | 11/04/85 |
| 2455442 | | | | 981 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10/31/85 | 11/04/85 |

EVENT TYPE: FALL FROM (14TH FLOOR) ELEVATION.

EVENT KEYWORDS:

ABSTRACT:

WHILE WAITING FOR A HOIST CAR ON THE 14TH FLOOR JUST PRIOR TO LUNCH BREAK EMPLOYEE #1 AND TWO OTHER WORKERS WERE LEANING ON A PERMETER QUARDRAIL TALKING TO OTHER WORKERS TWO FLOORS BELOW. THE QUARDRAILS SPANNED A DISTANCE OF 104" BETWEEN A TRASH CHUTE AND A MAN HOIST. THE 2 CLAMP TYPE STEEL STANCHIONS WERE ON 81" CENTERS & HAD 2"X4" LUMBER FOR BOTH RAILS AND JOE BOARD, A 4'X8'X3/8" SHEET OF PLYWOOD WAS STORED UPRIGHT AGAINST THE QUARDRAIL & HELD IN PLACE WITH A WOODEN CRATE OF GLASS PANELS. ONE EMPLOYEE WAS NEXT TO THE TRASH CHUTE WITH HIS ARM HANGING OVER THE PLYWOOD. ANOTHER EMPLOYEE WAS LEANING WITH HIS HAND ON AN APPROX. 8"X8'X3/4" PLYWOOD HOIST BARRIER. EMPLOYEE #1 WAS BETWEEN THE 2 ABOVE MENTIONED EMPLOYEES LEANING AGAINST THE PLYWOOD TALKING TO FRIENDS BELOW. THE QUARDRAILS GAVE WAY & EMPL #1 FELL TO THE GROUND.(120FT)(THE TRASH CHUTE & PLYWOOD BARRIERS HELPED THE OTHER 2 EMPLOYEES FROM FALLING ALSO.)

3

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0751910 IONA
EVENT TIME: 0 OSHA-170 NR: 14453534
EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INH LN NR | S E X | A G E | I N J T | N A T Y | P D Y | S R C | E V T | E N V M K | H U M K | T S C O D E | SUBS CDE | OCC CDE | EVENT (OSHA36) | DT (OSHA-1) | OPENDATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|------------------|------------------|-------------|-------------|-------------|-----------------------|------------------|----------------------------|-------------|------------|-------------------|----------------|----------------------|
| 2657476 | 1796 | 70 | 4 | 1 | M | 16 | 1 | 2 | 4 | 41 | 8 | 13 | 2 | 2 | | 865 | 07/22/85 | 07/24/85 | |

CITATION: 2657476 S 1 1 A 19260021 B02

EVENT TYPE: FELL IN DEEP WATER UNABLE TO SWIM

EVENT KEYWORDS:

ASBTRACT:

EMPLOYEE TRYING TO REMOVE BOAT HOIST THAT WAS STRUCKING MUD. STRUCTED TO RETURN TO SHORE IN DEEP WATER UNABLE TO SWIM

4

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0626300 DALLAS
EVENT TIME: 0 OSHA-170 NR: 14400451
EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED NSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN HR | S E X | A G E | I N J T | N A T Y | P D Y | S R C | E V T | E N V M K | H U M K | T S C O D E | SUBS CODE | OCC CDE |
|---------------------|------|--------------|--------------|-----------------|-------------|-------------|------------------|------------------|-------------|-------------|-------------|-----------------------|------------------|----------------------------|--------------|------------|
| 01795763 | 1751 | 2 | 2 | 1 | M | 17 | 1 | 10 | 4 | 15 | 13 | 17 | 6 | 1 | | 0 |

Nov 26, 1985

ITATION: 101795763 S 1 1 19260304 F
 S 1 2 A 19260400 H01
 S 1 2 B 19260401 A01
 S 1 2 C 19260402 C03
 0 2 1 19040008

VENT TYPE: ELECTROCUTION

VENT KEYWORDS:

SBTRACT:

EMPLOYEE USING A TABLE SAW TO RIP SOME TWO BY FOUR STUDS. GROUND WAS
LOADED FROM RAIN THE PREVIOUS EVENING. HOT LEAD FROM POWER POLE WAS WIRED
TO A HOUSE HOLD TYPE SWITCH ON SAW FRAME. WIRES WERE SPLAYED OUTSIDE
SWITCH CONNECTION & WERE TOUCHING HOUSING OF SWITCH BOX

5

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0627700 OKLAHOMA CITY
 EVENT TIME: 0 OSHA-170 NR: 14234108
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED NSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN HR | S E X | A G E | I N J | N A T | P D Y | S R C | E V T | E N V | H U M | T S K | SUBS CODE | OCC CDE |
|---------------------|------|--------------|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------|
| 841643 | 1751 | 7 | 7 | 1 M | 15 | 1 | 10 | 4 | 21 | 13 | 18 | 9 | 1 | | | 0 |
| 1397751 | 1541 | 5 | 5 | 981 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 |

CITATION: 841643 S 1 1 A 19260400 H01
 S 1 1 B 19260402 A05

EVENT TYPE: LOW VOLTAGE ELECTROCUTION

EVENT KEYWORDS:

ABSTRACT:

JUNE 25 1985 EMPLOYEE 1 WORKED ON 2 NEW HOUSE THAT WAS 80% COMPLETE AFTER HAVING USED AN ELECTRIC SANDER ON CABINETS IN THE KITCHEN FOR 2 HOURS HE WENT FOR A DRINK OF WATER LACKING A CUP AT THE JOB SITE HE APPARENTLY DRANK FROM A SPOUT ?????? REPORTED THAT HIS SHIRT WAS SOAKED WET AS HE RETURNED TO BEGIN WORKING IN THE DEN ROOM USING THE SAME 120 VOLT ELECTRIC SANDER HE WAS THEN ELECTROCUTED AFTER SEVERAL ATTEMPTS OF CPR FROM HIS CO-WORKER EMPLOYEE 1 WAS BROUGHT TO NEARBY HOSPITAL WHERE HE WAS IN COMA FOR 4 DAYS BEFORE THE LIFE SUPPORT SYSTEM WAS UNPLUGGED FROM HIM THE LOW VOLTAGE ELECTROCUTION RESULTED FROM FAILURE OF GROUND FAULT OPERATION ON THE JOB SITE ALSO THE CORDS OF THE ELECTRIC SANDER WAS BADLY SPLICED AND TAPED THE SANDER WAS MANUFACTURED BY ROCKWELL SERIAL NO A 241881 MODEL NO 505

6

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0111400 BOSTON
EVENT TIME: 0 OSHA-170 NR: 14265268
EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A G E | I N J | N A T Y | P D Y | S R C | E V T | E N V M K | H U S C O D E | T S C O D E | SUBS CODE | OCC CDE |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-----------------------|---------------------------------|----------------------------|--------------|------------|
| 100437458 | 1731 | 3 | 3 | 1 | M | 17 | 1 | 10 | 31 | 15 | 13 | 18 | 18 | 1 | | 0 |

CITATION: 100437458 S 1 1 A 19260021.D02
0 2 1 19040008

EVENT TYPE: ELECTROCUTION DUE TO EXPOSED WIRE AND A COPPER PIPE

EVENT KEYWORDS:

ASBTRACT:

THE DECEASED WAS IN AN ATTIC, THE DECEASED WAS INSTALLING A RECESSED SHOWER LIGHT. THE DECEASED HAD PREVIOUSLY CONNECTED THREE WIRES TO A SPLICE BOX. THE DECEASED DID NOT PUT A WIRE NUT OVER THE SPLICE. THE POWER WAS NOT SHUT OFF. THE DECEASED CONTACTED AN EXPOSED WIRE AND A COPPER PIPE WHILE ATTEMPTING TO INSTALL THE RECESSED SHOWER LIGHT.

12/6/85

7

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0454716 TENN CMPL 8FTY 6
 CASE NR: 0 FILM NR: 0 OSHA-170 NR: 14213920
 CASE PROCESSED: 08/10/84 CASE REVIEWED: NO

| RELATED INSPEC NR | BIC | FIRM SIZE | BITE SIZE | INJ LNR | S E | A G | I N | N A | P D | S R | E V | E N | H U | T S | SUBS CODE | OCC CDE |
|----------------------|------|--------------|--------------|------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------------|------------|
| | | | | NR | X | E | J | T | Y | C | T | V | M | K | | |
| 15156946 | 1791 | 13 | B | 1 | H | 16 | 1 | 10 | 31 | 15 | 13 | 8 | 18 | 2 | 8870 | 065 |

OM

EVENT TYPE: ELECTROCUTION

ABSTRACT:

ON JULY 31, 1984 AT APPROXIMATELY 10:30 A.M., EMPLOYEE WAS IN THE PROCESS OF CLEANING HYDRAULIC FLUID FROM A CRANE OPERATING PLATFORM. EMPLOYEE WAS ATTEMPTING TO ADJUST THE CONTROLS THE CONTROL THE AMOUNT OF CLEANING COMPOUND THAT ENTERS, THE STEAM JENNY USED FOR CLEANING. EMPLOYEE CAME IN CONTACT WITH THE ADJUSTMENT HANDLE THAT HAD BECOME ENERGIZED, THEREFORE, HE BECAME THE PATH TO GROUND AND WAS ELECTROCUTED. STEAM JENNY OPERATES ON 110 VOLT POWER SUPPLY.

8

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0418300 BIRMINGHAM
 EVENT TIME: 0 OSHA-170 NR: 14350367
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A G E | I H T | N A J | P D Y | S C | E T | E V | H N M | T U K | SUBS CODE | OCC CDE | EVENT DT (OSHA36) | OPENDATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|--------|--------|--------|-------------|-------------|--------------|------------|----------------------|----------------------|
| 1635564 | 1731 | 40 | 3 | 1 | M | 17 | 1 | 10 | 4 | 15 | 13 | 18 | 1 | 2 | | 0 | 08/16/84 | 08/21/84 |

EVENT TYPE: ELECTRIC SHOCK AT CONSTRUCTION SITE

EVENT KEYWORDS:

ASBTRACT:

EMPLOYEE WAS CONNECTING A 2 LAMP ILLUMINATION FIXTURE TO ENERGIZED TEMPORARY WIRING. HE WAS WORKING FROM A 6 FOOT WOOD LADDER AND CLOSE TO METAL CEILING GRID. HE RECEIVED AN ELECTRIC SHOCK AND FELL TO FLOOR ON HIS SEAT HE WAS TAKEN TO HOSPITAL IN LESS THAN 20 MINUTES. APROXIMATELY 1 1/2 HR RESUCITATION EFFORT FAILED AND HE WAS PRONOUNCED DEAD FROM ELECTRIC SHOCK AND CARDIAC ARREST. CAUSES: MENTAL CONDUCTOR FROM TEMPORARY SERVICE WAS NOT IDENTIFIED AND GFCI WAS NOT IN THE CIRCUIT.

9

OSHA INVESTIGATIVE SUMMARY REPORT

87-06-16 20:35:57

REPORTING ID: 0419400 JACKSON
 EVENT TIME: 0 OSHA-170 NR: 14349161
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED SPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LH HR | S E X | A O E | I H J | N A T | P D Y | S R C | E V T | E N V | H U M | T S K | SUBS CODE | OCC CDE | EVENT DT (OSHA36) | OPENDATE (OSHA-1) |
|-----------------|------|-----------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|---------|-------------------|-------------------|
| 1628261 | 1771 | 3 | 3 | 1 | M | 17 | 1 | 10 | 19 | 15 | 13 | 13 | 1 | 1 | | | | |
| 1628279 | | | | 981 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 07/29/86 | 07/29/86 |
| | | | | | | | | | | | | | | | | | 0 07/29/86 | 07/29/86 |

STATION: 101628261 S 1 1 19260700 D03

EVENT TYPE: ELECTROCUTION

EVENT KEYWORDS:

ABSTRACT:

EMPLOYEE #1 WAS USING A BULL FLOAT TO SMOOTH CONCRETE. EMPLOYEE #1 WAS STANDING UNDER A 13,000 VOLT OVERHEAD POWER LINE. THE BULL FLOAT WAS 10" LONG FROM TIP OF HANDLE TO PAN. THE NEAREST POWER LINE WAS 17' 4" NOMINALLY ABOVE CEMENT WALL WHERE EMPLOYEE #1 WAS STANDING. THE FAR POWER LINE WAS 17' 10" ABOVE CEMENT WALL WHERE EMPLOYEE #1 WAS STANDING. BULL FLOAT CONTACTED FAR POWER LINE ELECTROCUTTING EMPLOYEE #1 THE ONE LINE WAS 000 VOLTS TO GROUND.

10

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0854910 UTAH
 EVENT TIME: 0 OSHA-170 NR: 690909
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN HR | S E X | A O E | I N J | M A T | P D Y | S R C | E V T | E N V | H U M | T S K | SUBS CODE | OCC CDE | EVENT (OSHA36) | DT (OSHA-1) | OPENDATE |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------|-------------------|----------------|----------|
| 102108438 | 1623 | 12 | 7 | 1 M | 16 | 1 | 10 | 31 | 27 | 13 | 8 | 4 | 1 | | 869 | 00/00/00 | 06/24/86 | | |

CITATION: 102108438 S 1 1 CON05500115 000

EVENT TYPE: ELECTROCUTION

EVENT KEYWORDS:

ASBTRACT:

EMPLOYEE #1 WAS HOLDING ONTO A 18 FOOT, 30-INCH DIAMETER SECTION OF METAL PIPE. THE METAL PIPE WAS BEING MOVED FROM THE SIDE OF THE ROAD TO THE TRENCH IN THE CENTER OF THE ROAD, BY A MITSUBISHI HYDRAULIC EXCAVATOR. THERE WAS A WIRE ROPE ATTACHED TO THE BUCKET OF THE EXCAVATOR AND THE METAL PIPE. AS THE OPERATOR RAISED THE BOOM OF THE EXCAVATOR HE CONTACTED A 7,200 VOLT OVERHEAD POWER LINE.

11

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0729700 WICHITA
 EVENT TIME: 0 OSHA-170 NR: 14502845
 EVENT DATE: 00/00/00 CASE REVIEWED: YES

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A G E | I N J T | N A T Y | P D Y | S R C | E V T | E N V M | H U M K | T S K | SUBS CODE | OCC CDE | EVENT (OSHA36) | DT (OSHA-1) | OPENDATE |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|------------------|------------------|-------------|-------------|-------------|------------------|------------------|-------------|--------------|------------|-------------------|----------------|----------|
| 101845808 | 1623 | 5 | 3 | 1 | M | 17 | 1 | 3 | 5 | 27 | 2 | 4 | 18 | 1 | | 999 | 05/15/86 | 05/16/86 | |

EVENT TYPE: EMPLOYEE CRUSHED BETWEEN BACKHOE AND TRENCH WALL

EVENT KEYWORDS: CRUSHED BACKHOE TRENCH
 RIDING ON EQUIPMENT

ASBTRACT:

EMPLOYEE #1 WAS ATTEMPTING TO RIDE ON THE BACK OF THE CATERPILLAR BACKHOE AS IT WAS MOVING DIRT. HE WAS CRUSHED BETWEEN THE MACHINE AND THE WALL OF THE TRENCH.

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0523400 MILWAUKEE
 EVENT TIME: 0 OSHA-170 HR: 14499560
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A G E | I N J T | N A T Y | P D Y | S R C | E V T | E N V M K | H U M K | T S C O D E | SUBS CODE | OCC CDE | EVENT (OSHA36) | DT (OSHA-1) | OPENDATE |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|------------------|------------------|-------------|-------------|-------------|-----------------------|------------------|----------------------------|--------------|------------|-------------------|----------------|----------|
| 1279223 | 1795 | 15 | 6 | 1 | M | 15 | 1 | 12 | 5 | 27 | 2 | 4 | 9 | 2 | | | 0 | 08/02/84 | 08/08/84 |
| 1279249 | | | | 981 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | 0 | 00/00/00 | 08/08/84 |

CITATION: 1279223 S 1 1 19260602 A10

EVENT TYPE: CRUSHED SISSOR POINT ON LOADER

EVENT KEYWORDS:

ASBTRACT:

THE DECEDENT WAS OPERATING AN DWATONNA SKID STEER LOADER MODEL 440 AT A DEMOLITION SITE. DECEDENT APPARENTLY LEANED OUT THE RIGHT SIDE OF THE OPERATORS SEAT EITHER TO LEAVE THE UNIT OR TO PUSH/PULL DEBRIS OUT OF THE WAY. IN SO DOING DECEDENTS UPPER BODY ENTERED THE VERICAL PLANE OF TRAVEL OF THE RIGHT BUCKET ACTURATING ARM & SUSTAINED MASSIVE CHEST INJURIES. AS HE WAS CRUSHED (SISSOR POINT ACTION) BETWEEN ARM & RIGHT FENDER/FAME. DECEDENTS RIGHT FOOT WAS BOUND TO THE RIGHT FOOT PEDAL CONTROL. EMPLOYER PURCHASED THE SKID STEER (BOB- CAT STYLE) LOADER WITHOUT THE MFGR'S SIDE SCREENS (BASIC EQUIPMENT) IN PLACE.

13

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0830300 BISMARCK
 EVENT TIME: 0 OSHA-170 HR: 14534960
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC HR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A G E | I N J T | N A T Y | P D Y | S R C | E V T | E N V M K | H U M K | T S K | SUBS CODE | OCC CDE | EVENT DT (OSHA36) | OPENDATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|------------------|------------------|-------------|-------------|-------------|-----------------------|------------------|-------------|--------------|------------|----------------------|----------------------|
| 1495027 | 1721 | 8 | 7 | 1 | M | 15 | 1 | 5 | 19 | 10 | 14 | 10 | 1 | 1 | | 0 | 06/29/84 | 07/05/84 |

CITATION: 1495027 S 1 1 A 19260021 B02
 S 1 1 B 19260152 A01
 S 1 1 C 19260152 F03

EVENT TYPE: THINNER MIXTURE IGNITED BY FLAMMABLE SOURCE

EVENT KEYWORDS:

ASBTRACT:

THE VICTIM WAS WORKING IN THE GARAGE CLEANING UP PAINT ON THE FLOOR WITH A RAG & WAS USING LACQUER THINNER MIXTURE. AN EXPLOSIVE OCCURED FROM A CIGARETTE OR MATCHES. BURNS WERE SUSTAINED OVER MOST OF THE VICTIMS BODY.

N.D

14

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0626300 DALLAS
 EVENT TIME: 0 OSHA-170 NR: 14234934
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A G E | I N J T | M A T Y | P D Y | S R C | E V T | E H M | H U M K | T S C O D E | SUBS CDE | OCC CDE | EVENT DT (OSHA36) | OPENDATE (OSHA-1) |
|----------------------|------|--------------|--------------|-------------------|-------------------|---------------------|-------------------|---------------------|-------------------|-------------------|-------------------|-------------------|-------------------|----------------------------|-------------|------------|-------------------------------------|---------------------------------|
| 1435197 | 1796 | 2 | 2 | 1 2 | M M | 49 16 | 1 1 | 12 12 | 4 4 | 8 8 | 1 1 | 4 4 | 1 1 | 1 | | | 0 07/09/84 0 07/09/84 | 07/11/84 07/11/84 |

EVENT TYPE: STRUCK BY VAULT DOOR ON SAFE

EVENT KEYWORDS:

ABSTRACT:

HAS INSTALLING A 5,500 LB. VAULT DOOR ON
 A WALK-IN SAFE. DURING THE INSTALLING PROCESS, THE VAULT DOOR FELL ON BOTH
 MEN CAUSING FATAL INJURIES.

15

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0551815 INDIANA CNSTR SFTY B
 EVENT TIME: 0 OSHA-170 NR: 732479
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A G E | I O J | N A T | P D Y | S C | E T | E V V | H N V | T U M | SUBS CODE | OCC CDE | EVENT DT (OSHA36) | OPENDATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|--------|--------|-------------|-------------|-------------|--------------|------------|----------------------|----------------------|
| 104060314 | 1623 | 30 | 2 | 1 | M | 17 | 1 | 12 | 13 | 43 | 1 | 6 | 1 | 1 | | 0 | 12/05/86 | 12/05/86 |

CITATION: 104060314 S 1 1 A 19260021 B02
 S 1 1 B 19260100 A
 O 2 1 4000402

EVENT TYPE: STRUCK BY FALLING SEWER PIPES

EVENT KEYWORDS:

ASBTRACT:

ON DECEMBER 5, 1986 AT APPROXIMATELY 10:00 A.M. EMPLOYEE #1 WAS HELPING TO UNLOAD SEWER PIPE FROM A FLATBED TRAILER. THE 8"X12' PVC SEWER PIPE WAS STACKED 5 HIGH & 5 ACROSS, SEPARATED WITH PLASTIC SPACERS. THE 25 PIPE IN EACH BUNDLE WAS HELD TOGETHER WITH 1/2 METAL STRAPS ON EACH END. TWO BUNDLES OF SEWER PIPE WERE STACKED, ONE A TOP THE OTHER AND HOLD TOGETHER WITH ONE 1 1/4 METAL STARP. AROUND THE MIDDLE OF BOTH BUNDLES. WHEN EMPLOYEE #1 WAS STANDING ON THE EDGE OF THE TRAILER CUT THE 1 1/4" METAL STRAP HOLDING THE TWO BUNDLES TOGETHER THE TWO END STRAPS OF THE TOP BUNDLE FAILED AND 25 SEWER PIPE WEIGHING 125 LBS EACH ROLLED OFF THE TRAILER. KNOCKING THE EMPLOYEE TO THE GROUND AND HE WAS COVERED BY THE SEWER PIPE. EMPLOYEE #1 SUFFERED FATAL INJURIES AND DIED AT THE SCENE.

160

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0524200 HILES
 EVENT TIME: 0 OSHA-170 NR: 14387617
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A G E | I N J T | N A T Y | P D Y | S R C | E V T | E N V M | H U M K | T S C O D E | SUBS CDE | OCC CDE | EVENT DT (OSHA36) | OP'EN DATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|------------------|------------------|-------------|-------------|-------------|------------------|------------------|----------------------------|-------------|------------|----------------------|------------------------|
| 101063907 | 1795 | 6 | 6 | 1 M | 17 | 1 | 12 | 3 | 43 | 1 | 8 | 10 | 2 | | | 0 | 11/16/86 | 11/19/86 |

EVENT TYPE: STRUCK BY I-BEAM MOVING LOAD

EVENT KEYWORDS:

ASBTRACT:

A FRONT END LOADER WAS DRAGGING SA 15 FOOT LONG I-BEAM ACROSS THE GROUNDS OF THE CONSTRUCTION SITE. THE LOAD WAS CONNECTED TO THE LOADER WITH A SINGLE-LEGGED WIRE ROPE SLING USING A CHOKER HITCH. AS THE BEAM WAS BEING DRAGGED IT WAS DIGGING A FURROW WHEN ALL OF A SUDDEN IT HIT AN OBSTRUCTION BELOW THE GROUND SURFACE. THE I-BEAM JUMPED INTO THE AIR PROVOTING ON THE END TO WHICH THE SLING WAS CONNECTED AND STRUCK AN EMPLOYEE WHO WAS WALKING NEAR IT.

17

COTT PLAZ I
 (NICUM
 ELAWARE PA 19113 6/23/88 UN-FATCAT SAFETY 550 1480
 045 7/07/88 602 COMPREH PRIV 3
 11/29/89 1001123603 NONUNION 10000 (PENALTIES PAID)
 A360113641

OPT-INFO: N-20 F/U ASSIGNED

| | | | | | | | | |
|-----------------|------------|---------|----------|---|------|------|---|----------|
| 1926.417 A | S/O 01001A | 8/26/88 | 9/01/88 | X | 700 | 0 | 0 | Y FORMAL |
| 1926.417 C | S/O 01001B | 8/26/88 | 9/01/88 | X | 0 | 0 | 0 | Y FORMAL |
| 1926.416 A01 | W 02001A | 8/26/88 | 9/01/88 | X | 7000 | 5000 | 0 | Y FORMAL |
| 1926.416 A03 | W/S 02001B | 8/26/88 | 9/01/88 | X | 0 | 500 | 0 | Y FORMAL |
| 1926.020 B01 | W/S 02001C | 8/26/88 | 10/19/89 | X | 0 | 0 | 0 | Y FORMAL |
| 1926.020 B02 | W/S 02001D | 8/26/88 | 10/19/89 | X | 0 | 0 | 0 | Y FORMAL |
| 1926.021 B03 | W/S 02001E | 8/26/88 | 9/01/88 | X | 0 | 0 | 0 | Y FORMAL |
| TOTAL PENALTIES | | | | | 7700 | 5500 | 0 | |

*** ACCIDENT DATA ***

SUMMARY # 14243331 DATE: 6-23-88 KEYWDS: EMPLOYEE WAS WORKING OFF A 6' LADDER WITH THE TOP HALF OF HIS BODY ABOVE THE TILE CEILING IN A SPACE APPROXIMATELY 1' HI
 ABSTRACT: DE HIS LEFT UPPER ARM WAS REACHING A SHEET METAL DOCK AND RIGHT HAND WAS HOLDING WIRE STRIPPERS WHICH MADE CONTACT WITH BARE WIRE COMPLETING THE CIRCUIT
 DESCRIPT: ELECTROCUTION 277 VOLT LINE HOT
 --- (ABSTRACT NOT REVIEWED)

QY00399(BHB) 05/04/90 OFFICE OF MANAGEMENT DATA SYSTEMS

BOEING COMPUTER SERVICE

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FEDERAL AND 18 STATE INSPECTIONS WITH ACCIDENT VICTIMS
 JANUARY 1987 - DECEMBER 1989

PAGE: 1284

ESTABLISHMENT INSPECTED REPORT ID ACTIVITY# CSHO SICI/SIC2
 ADDRESS OPEN DATE INSP TYPE CATEGORY \$REMITTED EMPESTAB LHDI
 CITY STATE ZIP CLOSECONF OPT REPT# SCOPE OWNERSHIP EMPINSP
 COUNTY (NAME/CODE) CASE CLSD PREV ACT UNION CLASS EMPCTRL
 RELTD ACT
 STANDARD CITATION R ISSUANCE ABATE ABT INITIAL CURRENT
 TYP IDENT E DATE DATE CDE PENALTY PENALTY
 CURRENT C HAZD
 F-T-A H SETTLM-T SUBS
 PENALTY T DISPOS-N CODE

 COTT PAPER COMPANY 0317000 100384122 *** CONTINUED ***

VICTIM: 001 AGE: 17 SEX: M
 DISPOSITION: FATALITY EVENT-TYPE: CARD-VASC/RESP FAIL.
 INJ NATURE: ELECTRIC SHOCK ENVIR FACTOR: OTHER
 INJ SOURCE: ELEC APPARAT/HIRING HUMAN FACTOR: INSUFF/LACK/WRITH WRK PRAC PROG.
 PART-OF-BODY: OTHBODYSYS HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

18

ENT ENTE SES INC. 0355110-S 018742973 R4495-C 1794
 JTE 58A 8/31/88 UN-FATCAT SAFETY 0 16
 RTON VA 24273 9/01/88 112-88 PARTIAL PRIV SEC 16
 RTON 720 9/01/88 A360789242 NONUNION SPG-CONST 16
 A360789242

*** ACCIDENT DATA ***

SUMMARY # 14292379 DATE: 8-27-88 KEYWDS: DESCRIP: TIRE EXPLOSION
 ABSTRACT: ON SEPTEMBER 27, 1988 AT APPROXIMATELY 10:45 AM EMPLOYER #1 WAS INSPECTING DAMAGES ON A 777B CATERPILLAR OFF HIGHWAY TRUCK CAUSED BY THE RIGHT REAR OUTSIDE TIRE THAT HAD BLOWN OUT AS EMPLOYER #1 APPROACHED THE LEFT SIDE OF TRUCK LOOKING AT DAMAGE HE CAME TO WITHIN 3 FT OF LEFT INSIDE TIRE IT BLEW OUT WITH THE AIR PRESSURE STRIKING EMPLOYER #1 IN HEAD EMPLOYER #1 WAS DEAD ON ARRIVAL AT ST MARYS HOSPITAL --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 13 SEX: M
 DISPOSITION : FATALITY EVENT-TYPE : STRUCK BY
 INJ NATURE : CONCUSSION ENVIR FACTOR: FLYING OBJECT ACTION
 INJ SOURCE : AIR PRESSURE HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: HEAD HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0355114 VIRGINIA SAFETY 4
EVENT TIME: 0 OSHA-170 NR: 893354
EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A O E | I N J | H A T | P D Y | S R C | E V T | E N V | H U M | T S M | SUBS CODE | OCC CDE | EVENT DT (OSHA36) | OPENDATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------|----------------------|----------------------|
| 18735316 | 1521 | 7 | 6 | 1 | M | 15 | 1 | 12 | 13 | 8 | 5 | 13 | 17 | 1 | 567 | 10/27/87 | 10/27/87 | |

CITATION: 18735316 S 1 1 19260500 B04

EVENT TYPE: FALL THROUGH SKYLIGHT OPENING

EVENT KEYWORDS:

ASBTRACT:

EMPLOYEE #1 WAS PLACING TAR PAPER OVER NEWLY INSTALLED INSULATION ON A A ROOF. THE EMPLOYEE (#1) HAD TALKED DOWN ONE END OF THE PAPER WHICH WAS COVERING APX. 1/2 OF THE SKYLIGHT OPENING, HE WALKED TOWARD THE LADDER AND STEPPED ON THE TAR PAPER COVERING A PORTION OF THE SKYLIGHT OPENING AND FELL APX. 25' TO THE BOTTOM OF A DRY POOL BELOW. DEATH RESULTED FROM MULTIPLE SEVERE INJURIES, INCLUDING A FRACTURED SKULL.

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0418300 BIRMINGHAM
 EVENT TIME: 0 OSHA-170 NR: 14347629
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A O E | I N J | H A T | P D Y | S C | E V T | E N V | H U M | T S M | SUBS CODE | OCC CDE | EVENT DT (OSHA36) | OPENDATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|--------|-------------|-------------|-------------|-------------|--------------|------------|----------------------|----------------------|
| 101236549 | 1521 | 5 | 5 | 1 | M | 17 | 1 | 6 | 13 | 5 | 5 | 13 | 1 | 1 | 0 | 02/12/87 | 02/13/87 | |

EVENT TYPE: JUMP TO FLOOR AND FLOOR SURFACE FAILED TO SUPPORT

EVENT KEYWORDS:

ASBTRACT:

ON FEBRUARY 12, 1987 AT APPROXIMATELY 9:30 AM EMPLOYEE #1 WAS WORKING AT A SINGLE FAMILY HOME CONSTRUCTION SITE. EMPLOYEE #1 WAS WORKING ON A WALL TOP WHEN HE WAS ASKED TO GET SOME MATERIALS FOR ANOTHER EMPLOYEE. EMPLOYEE #1 LEANED OVER THE WALL EDGE GRABBED HOLD OF A BRACE AND JUMPED TO THE FLOOR BELOW. WHEN EMPLOYEE #1 LANDED ON THE PARTICLE BOARD FLOOR, IT FAILED, EMPLOYEE #1 FELL THROUGH TO THE DAY CONCRETE FLOOR BELOW STRICKING HIS HEAD AND LATER DIED OF HEAD INJURIES.

JX2 FAIRE WORKS
 AIRFIELD AL 35064 6/10/88 352 UNFAIRLY SAFETY
 EFFERSON 073 7/27/88 (NONE) COMPREH PRIV
 A360673735 NONUNION SPO-L ST

8
 30 (PENALTIES PAID)

| | | | | | | | |
|-----------------|-----------|---------|---------|---|------|------|---|
| 1926.020 B04 | S 01001A | 6/30/88 | 7/05/88 | X | 560 | 560 | 0 |
| 1926.021 B02 | S 01001B | 6/30/88 | 7/05/88 | X | 0 | 0 | 0 |
| 1926.600 A03 | I | | | | 640 | 640 | 0 |
| 1926.602 C01 | S 01002 A | 6/30/88 | 7/05/88 | X | 0 | 0 | 0 |
| | | | | | 1200 | 1200 | 0 |
| TOTAL PENALTIES | | | | | | | |

QY00399(BHB) 05/04/90 OFFICE OF MANAGEMENT DATA SYSTEMS

BOEING COMPUTER SERVICES

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OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
FEDERAL AND 188 STATE INSPECTIONS WITH ACCIDENT VICTIMS
JANUARY 1987 - DECEMBER 1989

PAGE: 1692

| ESTABLISHMENT INSPECTED (ADDRESS CITY COUNTY (NAME/CODE)) | STATE ZIP | REPORT ID OPEN DATE CLOSECONF CASE CLSD | ACTIVITY# INSP TYPE OPT REPT# PREV ACT RELTD ACT | CSHO CATEGORY SCOPE UNION | SIC1/SIC2 \$REMITTED OWNERSHIP CLASS | EMPESTAB EMPINSP EMPCNTRL | LWDI | STANDARD | CITATION TYP IDENT | R E C | ISSUANCE DATE | ABATE DATE | ABT CMP CDE | INITIAL PENALTY | CURRENT PENALTY | CURRENT C F-T-A N PENALTY T | HAZD SETTLM-T DISPOS-N CODE |
|--|-----------|--|--|------------------------------------|---|---------------------------------|------|----------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------------|--------------------------------------|
|--|-----------|--|--|------------------------------------|---|---------------------------------|------|----------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------------|--------------------------------------|

 OSBORNE & CO., INC. 0418300 101228591 *** CONTINUED ***

*** ACCIDENT DATA ***

SUMMARY # 14347991 DATE: 5-29-88 KEYWDS: DESCRIP: STRUCK BY AND CAUGHT IN FRONT AND LOADER BUCKET
 ABSTRACT: MAINTENANCE WAS BEING PERFORMED ON A FRONT END LOADER BUCKET REMOVED THE ARMS OF THE BUCKET CONTROL ASSEMBLY HAD BEEN RAISED BY THE MACHINES HYDRAULICS SYSTEM THE TIP OF THE FORKS ON A LIFT TRUCK WAS PLACED UNDER THE HORIZONTAL MEMBER BETWEEN THE ARMS OF THE ASSEMBLY DURING THE REMOVAL OF A HYDRAULIC CYLINDER THE HYDRAULIC PRESSURE WAS LOST AND THE ELEVATED ASSEMBLY DROPPED THIS KICKED THE LIFT TRUCK BACK DISLODGING THE FORKS AND ALLOWING THE ASSEMBLY TO FALL TO THE GROUND ONE EMPLOYEE WAS CAUGHT IN THE SCOSSPR POINT AND ANOTHER WAS STRUCK ON THE HEAD BY THE FALLING ASSEMBLY BOTH WERE KILLED
 --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 54 SEX: M
 DISPOSITION: FATALITY EVENT-TYPE: STRUCK BY
 INJ NATURE: CONCUSSION ENVIR FACTOR: OVERHEAD MOVING/FALLING OBJ AC
 INJ SOURCE: MATERIALS HANDLG EQ. HUMAN FACTOR: EQUIP. INAPPROPR FOR OPERATION
 PART-OF-BODY: HEAD HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

VICTIM: 002 AGE: 15 SEX: M
 DISPOSITION: FATALITY EVENT-TYPE: CAUGHT IN OR BETWEEN
 INJ NATURE: CUT/LACERATION ENVIR FACTOR: SQUEEZE POINT ACTION
 INJ SOURCE: MATERIALS HANDLG EQ. HUMAN FACTOR: EQUIP. INAPPROPR FOR OPERATION
 PART-OF-BODY: MULTIPLE HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

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OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0418100 ATLANTA
 EVENT TIME: 0 OSHA-170 NR: 607986
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A G E | I N J T | N A T Y | P D Y | S C | E R C | E V T | H N V | T U M | SUBS CODE | OCC CDE | EVENT DT (OSHA36) | OPENDATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|------------------|------------------|-------------|--------|-------------|-------------|-------------|-------------|--------------|------------|----------------------|----------------------|
| 101866226 | 1623 | 5 | 4 | 1 | M | 17 | 1 | 12 | 19 | 12 | 1 | 6 | 1 | 1 | | 0 | 05/15/87 | 05/15/87 |

CITATION: 101866226 S 1 1 19260021 B02
 S 1 2 19260650 E
 S 1 3 19260652 B

EVENT TYPE: TRENCH CAVE IN

EVENT KEYWORDS:

ASBTRACT:

ON MAY 15, 1987 AT APPROXIMATELY 3:00 P.M., EMPLOYEE 01 ENTERED A SANITARY SEWER TRENCH TO CLEAN OUT THE END OF A PREVIOUSLY LAID PIPE. THE TRENCH HAS ABOUT 15 FEET LONG, 3 FEET WIDE AND 12 FEET DEEP. THE WALLS WERE VERTICAL WITHOUT SHORING. THE SOUTH WALL. CAVED IN COVERING HIM COMPLETELY, HE WAS KILLED INSTANTLY FROM MULTIPLE INJURIES WHICH INCLUDED MASSIVE SKULL FRACTURES, CRUSHED CHEST, BROKEN PELVIS AND BROKEN RIGHT ARM. PORTIONS OF THE ABOVE IN FORMATION WERE TAKEN FROM POLICE AND CORONER REPORTS. WEATHER CONDITIONS WERE CLEAR AND WARNING HE APPARENTLY DID NOT RECOGNIZE THE HAZARDOUS CONDITION OF THE TRENCH.

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OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0418100 ATLANTA
EVENT TIME: 0 OSHA-170 NR: 608257
EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A O E | I H J | N A T | P D Y | S R C | E V T | E H V | H U M | T S K | SUBS CODE | OCC CDE | EVENT DT (OSHA36) | OPENDATE (OSHA-1) |
|-------------------|------|-----------|-----------|-----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-----------|---------|-------------------|-------------------|
| 101277051 | 1541 | 6000 | 349 | 1 | M | 17 | 1 | 12 | 4 | 42 | 5 | 13 | 1 | 1 | | 0 | 09/06/87 | 09/09/87 |

CITATION: 101277051 S 1 1 19260020 B01
O 1 2 19260021 B02
S 1 3 19260028 A

EVENT TYPE: FALL THROUGH FLOOR OPENING.

EVENT KEYWORDS:

ABSTRACT:

EMPLOYEE #1 WAS AN IRON WORKER HELPER. HE, ANOTHER IRON WORKER HELPER, AND A JOURNEYMAN IRON WORKER WENT TO THE 263.8 LEVEL OF THE GOTAVERKEN RECOVERY BOILER. THE OTHER HELPER AND THE IRONWORKER PREPARED TO REMOVE A SECTION OF THE METAL FLOOR GRATING IN ORDER TO RE-POSITION AN AIR HOISTS RIGGING. EMPLOYEE #1 WAS SENT DOWN TO GET SOME BARRICADE TAPE TO BARRICADE THE AREA WITH THE OPENING WHEN HE RETURNED, THE GRATING HAD BEEN REMOVED AND THE HELPER WAS RE- POSITIONING THE RIGGING. EMPLOYEE #1 STARTED PUTTING THE TAPE AROUND THE AREA 3-4' AWAY FROM THE 39" X87" OPENING HE HAD PUT ONE TAPE ALL THE WAY AROUND AND WAS IN THE PROCESS OF PUTTING ANOTHER AROUND WHEN HE FELL THROUGH THE OPENING TO GROUND LEVEL APPROX 100' BELOW. HE WAS WEARING A SAFETY BELT BUT WAS NOT TIED OFF. THE OTHER HELPER WAS TIED OFF.

24

PIC 3 DUA 41 A
 ID MS 38965 8/01/89 UN-PAID SAFETY 800 4
 LAHATCHIL 135 8/03/89 559 COMPREH PRIV 4
 9/26/89 (NONE) NONUNION SPO-CO 4 (PENALTIES PAID)
 A360131726

| | | | | | | | |
|--------------|---------|-----------------|-----------|------|-----|---|----------|
| 1926.106 A | S 01001 | 9/06/89 | 9/11/89 X | 640 | 600 | 0 | INFORMAL |
| 1926.106 C | S 01002 | 9/06/89 | 9/11/89 X | 640 | 200 | 0 | INFORMAL |
| 1903.002 A01 | O 02001 | 9/06/89 | 9/11/89 X | 0 | 0 | 0 | |
| | | TOTAL PENALTIES | | 1280 | 800 | 0 | |

*** ACCIDENT DATA ***

SUMMARY # 14528368 DATE: 7-31-89 KEYWDS: DESCRIP: DROWNING
 ABSTRACT: EMPLOYEE WENT IN A 20' POND STILLING POND TO RETREIVE A HARD HAT THAT HAD FALLEN INTO THE WATER THE EMPLOYEE GOT INTO DI
 FFICULTY IN HIS ATTEMP TO RETRIEVE THE HARD HAT FROM THE WATER OTHER EMPLOYEES GOT INTO THE WATER AND ATTEMPTED TO RESCU
 E HIM THEIR EFFORTS FAILED THE EMPLOYEE DROWNED --- (ABSTRACT NOT REVIEWED)

00399(BHB) 05/04/90 OFFICE OF MANAGEMENT DATA SYSTEMS

REPORTING COMPLETED BY: [REDACTED]

A Division of the Department of Labor

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FEDERAL AND 188 STATE INSPECTIONS WITH ACCIDENT VICTIMS
 JANUARY 1987 - DECEMBER 1989

PAGE: 2446

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | EMPESTAB | LHDI | STANDARD | CITATION E | R | ISSUANCE | ABATE | ABT | INITIAL | CURRENT | CURRENT C | HAZD |
|-------------------------|-----------|-----------|----------|------------|----------|------|----------|------------|-------|----------|-------|-----|---------|---------|-----------|----------|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPINSP | | | TYP | IDENT | DATE | DATE | CDE | PENALTY | PENALTY | F-T-A | SETTLM-T |
| CITY | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPCNTRL | | | | | | | | | | N | DISPOS-N |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | | | | | | | | | | | | CODE |

 DONALD MORRIS 0419400 101185205 *** CONTINUED ***

VICTIM: 001 AGE: 16 SEX: M
 DISPOSITION: FATALITY EVENT-TYPE: OTHER
 INJ NATURE: OTHER ENVIR FACTOR: OTHER
 INJ SOURCE: WATER HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: OTHBODYSYS HAZ SUBSTANCE: NO SUBSTANCE IMPLICATED

25

 MUS ELEC. C, INC. 0454711-S 107912677 W4880-C 1731
 OAK COUR, DRIVE 8/24/89 UN-FATCAT SAFETY 640 25
 PHIS TN 38127 8/24/89 097-89 PARTIAL PRIV SEC 8
 LBY 157 12/18/89 A360286413 NONUNION SPG-CONST 25 (PENALTIES PAID)
 A360286413

1926.417 B S 01001 9/06/89 9/11/89 X 640 640 0

**** ACCIDENT DATA ****

SUMMARY # 14306120 DATE: 8-23-89 KEYWDS: DESCRIP: ELECTROCUTION
 BSTRCT: APPRENTICE ELECTRIICIAN WAS RECEIVED ELECTRICAL SHOCK WHILE TERMINATING WIRES IN A JUNCTION BOX DURING CONSTRUCTION OF A
 N OFFICE BUILDING --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 13 SEX: M
 DISPOSITION : FATALITY EVENT-TYPE : CARD-VASC/RESP FAIL.
 INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: OTHER
 INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: LOCKOUT/TAGOUT PROCED MALFUNC
 PART-OF-BODY: BODYSYSTEM HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

00399(BHB) 05/04/90 OFFICE OF MANAGEMENT DATA SYSTEMS

BOEING COMPUTER SERVICES
 A Division of The Boeing Company

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 RLES OSBL PLUMBING 0454712-S 107889297 M5640-C 1711
 9 11TH AVENUE, NORTH 7/14/89 UN-FATCAT SAFETY 0 1
 NASHVILLE TN 37208 7/17/89 081-89 PARTIAL PRIV SEC 1
 IDSON 037 7/26/89 (NONE) NONUNION SPG-CONST 1
 A360285902

*** ACCIDENT DATA ***

SUMMARY # 763243 DATE: 7-10-89 KEYWDS: DESCRIP: ELECTROCUTION
 ABSTRACT: A PLUMBER AND HIS SUMMER HELPER WERE CONTRACTED TO REPLACE THE PLUMBING IN AN OLD HOUSE AT 1909 11TH AVE NORTH, NASHVILLE, TN. WHEN THEY ARRIVED AT THE HOUSE THEY NOTICED THERE WAS A LOT OF TRASH AND DEBRIS UNDER THE HOUSE. THE PLUMBER TOLD HIS HELPER TO CLEAN ALL OF TRASH OUT FROM UNDER THE HOUSE WHILE HE WENT TO GET A WORK PERMIT. THE HELPER APPARENTLY CAME INTO CONTACT WITH A LIVE WIRE WHILE UNDER THE HOUSE AND WAS ELECTROCUTED. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 17 SEX: M
 DISPOSITION : FATALITY EVENT-TYPE : CARD-VASC/RESP FAIL.
 INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: OTHER
 INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: HAND(S) HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FEDERAL AND 188 STATE INSPECTIONS WITH ACCIDENT VICTIMS
 JANUARY 1987 - DECEMBER 1989

ESTABLISHMENT INSPECTED REPORT ID ACTIVITY# CSHO SIC1/SIC2
 ADDRESS OPEN DATE INSP TYPE CATEGORY \$REMITTED EMPESTAB
 CITY STATE ZIP CLOSECONF OPT REPT# SCOPE OWNERSHIP EMPINSP LWDI
 COUNTY (NAME/CODE) CASE CLSD PREV ACT UNION CLASS EMPCNTRL

STANDARD CITATION R ABATE ABT INITIAL CURRENT
 TYP IDENT C DATE DATE CDE PENALTY PENALTY
 CURRENT C HAZD
 F-T-A N SETTLM-T SUBS
 PENALTY T DISPOS-N CODE

IN SLACK CONSTRUCTION COMPAN 0521400 103361812 B3000-C 1522
 4 HAMPTON RIDGE DRIVE 1/09/89 UN-FATCAT SAFETY 1978.01 90
 KFOR IL 61109 1/09/89 COMPREH PRIV SEC 90
 INEBAGO 201 11/03/89 (NONE) NONUNION SPG-CONST 90

OPT-INFO: N-12 1600.00
 N-98 X

N-13 890517

| STANDARD | CITATION | R | ISSUANCE | ABATE | ABT | INITIAL | CURRENT | CURRENT C | HAZD |
|-----------------|----------|----------|----------|---------|-----|---------|---------|-----------|----------|
| TYP | IDENT | C | DATE | DATE | CDE | PENALTY | PENALTY | F-T-A | SETTLM-T |
| 1926.020 | B01 | S 01001A | 2/01/89 | 2/16/89 | W | 810 | 500 | 0 | INFORMAL |
| 1926.021 | B02 | S 01001B | 2/01/89 | 4/03/89 | W | 0 | 0 | 0 | |
| 1926.105 | A | S 01002 | 2/01/89 | 2/04/89 | W | 630 | 380 | 0 | INFORMAL |
| 1926.500 | B01 | S 01003A | 2/01/89 | 2/04/89 | W | 720 | 720 | 0 | |
| 1926.500 | B02 | S 01003B | 2/01/89 | 2/04/89 | W | 0 | 0 | 0 | |
| 1903.002 | A01 | O 02001 | 2/01/89 | 2/04/89 | W | 0 | 0 | 0 | |
| 1904.002 | A | O 02002 | 2/01/89 | 2/04/89 | W | 0 | 0 | 0 | |
| TOTAL PENALTIES | | | | | | 2160 | 1600 | 0 | |

*** ACCIDENT DATA ***

SUMMARY # 14384002 DATE: 1-04-89 KEYWDS: DESCRIP: FALL FROM WORK PLATFORM
 ABSTRACT: EMPLOYEE #1 DEASESED AND EMPLOYEE #2 WERE RETRIEVING 2/6 12 FOOT LONG LUMBER FROM THIRD LEVEL FOR USE IN CONSTRUCTING EXT
 ERIOR PATIO DECK ON SECOND FLOOR OF RESIDENTIAL HOUSING UNIT EMPLOYEE #1 WAS ON THIRD LEVE HANDING DOWN LUMBER TO EMPLOY
 EE # ON SECOND LEVE IN THE COURSE OF DECE NDING DOWN TO THE THE SECOND LEVEL EMPLOYEE #1 CLIMBED DOWN LADDE MADE OF 2/4
 NAILED TO STUDS 14INCHES APART EMPLOYEE #1 SLIPPED ON MUD AND/OR ICE ON BOTTOM RUNG OF MAKESHIFT LADDER LANDING ON UNSEC
 URED STYRAFOAM INSULATON 1" THICK EMPLOYEE #1 FELL APPROXIMATELY 12 FEET FEET FIRST O THE FIRST LEVEL LANDING ON A CYLIN
 ICALLY SHAPED HEATER DEFLECTING TO THE CEMENT FLOOR WHERE HE HIT THE RIGHT SIDE OF HIS CAUSING SKULL FRACTURE AND HEMORA
 GE FRACTORS INCLUDED LOCATION OF LUMBER IMPROPER LADDER FAILURE TO PROVIDE A BARRI ER FOR UNSECURED WORK PLATFORM AND IC
 E AND OR MUD ON THE LADDER
 --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 17 SEX: M
 DISPOSITION : FATALITY EVENT-TYPE : FALL (FROM ELEVATION)
 INJ NATURE : FRACTURE ENVIR FACTOR: WORK-SURFACE/FACIL-LAYOUT COND
 INJ SOURCE : WORKING SURFACE HUMAN FACTOR: INSUFF/LACK/WRITN WRK PRAC PROG.
 PART-OF-BODY: HEAD HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

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OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0551814 INDIANA CNSTR SFTY A
 EVENT TIME: 0 OSHA-170 NR: 14464531
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN NR | S E X | A O E | I N J | N A T | P D Y | S R C | E V C | E V C | H U M | T S K | SUBS CODE | OCC CDE | EVENT DT (OSHA36) | OPEN DATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|--------------|------------|----------------------|-----------------------|
| 104034301 | 1629 | 5 | 3 | 1 | M | 17 | 1 | 12 | 19 | 27 | 1 | 8 | 18 | 1 | 869 | 09/28/87 | 09/29/87 | |

EVENT TYPE: CRUSHING

EVENT KEYWORDS:

ASBTRACT:

EMPLOYEE WAS PICKING UP ROCKS DURING A LANDSCAPE PROJECT HE AND ANOTHER EMPLOYEE WERE AT THE REAR OF A DUMP TRUCK WHEN A THIRD EMPLOYEE STARTED THE TRUCK AND BEGAN BACKING THE TRUCK TO THE NEXT PLACE WHERE ROCKS WERE TO BE PICKED UP THE VICTIM DID NOT MOVE OUT OF THE WAY AFTER BEING TOLD BY THE DRIVER HE CONTINUED TO PICK UP ROCKS UNTIL THE TRUCK WAS VERY CLOSE THE VICTIM THEN GRABBED THE FRIGATE OF THE TRUCK AND TRIED TO PULL HIS LEGS UP BUT WAS UNABLE TO DO SO THE EMPLOYEES FEET WERE CAUGHT BY THE TANDEM WHEELS AND WAS PULLED UNDER THE WHEELS AND CRUSHED

 AVIS BR ER ROOFING COMPANY 0627700 100583673 A1617-C 176.
 PORTLAND YELLOWSTONE STREE 12/12/88 UN-FATCAT SAFETY 350 3
 UKON OK 73099 12/12/88 111 PARTIAL PRIV SEC 1
 ANADIAN 017 3/17/89 (NONE) NONUNION SPG-CONST 3 (PENALTIES PAID)
 A360548226
 1926.451 U03 S 01001 2/10/89 2/16/89 X 350 350 0
 1903.002 A01 O 02001 2/10/89 2/16/89 X 0 0 0
 1904.008 O 02002 2/10/89 2/16/89 X 0 0 0

QY00399(BHB) 05/04/90 OFFICE OF MANAGEMENT DATA SYSTEMS

REPORTING AGENCY: STATE OF MONTANA

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FEDERAL AND 18B STATE INSPECTIONS WITH ACCIDENT VICTIMS
 JANUARY 1987 - DECEMBER 1989

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | EMPESTAB | LWDI | HAZD |
|-------------------------|-----------|-----------|----------|------------|----------|---------|-------------------------|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPIHSP | | |
| CITY | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPCNTRL | | |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | | | |
| | RELTD ACT | | | | | | |
| STANDARD | CITATION | R | ISSUANCE | ABATE | ABT | INITIAL | CURRENT |
| | TYP IDENT | E | DATE | DATE | CMP | PENALTY | PENALTY |
| | | C | | | CDE | | |
| | | | | | | | F-T-A N SETTLM-T SUBS |
| | | | | | | | PENALTY T DISPOS-N CODE |

 VIS BROTHER ROOFING COMPANY 0627700 100583673 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 14495253 DATE:12-05-88 KEYWDS: DESCRIP:FALL FROM A TWO STORY RESIDENCE ROOF
 ABSTRACT: THE DECEASED WAS HELPING HIS EMPLOYER REPLACE DAMAGED WOOD SHAKE RIDGE CAPS ON TOHE ROOF OF A TWO STORY RESIDENCE THE DE
 CEASED HAD JUST BROUGHT UP MORE REPLACEMENT RIDGE CAP TO HIS EMPLOYER AND WAS MOVING JUST BELOW HIS EMPLOYER HE STEPPED
 ON A PIECE OF OLD RIDGE CAP IN THE METAL VALLEY OF THE ROOF HE SLIPPED DOWN THE VALLEY AND OFF THE 17' 4" ROOF EAVE TO T
 HE CONCRETE WALKWAY BELOW HE RECEIVED SEVERAL FRACTURES INCLUDING A SKULL FRACTURE WITH AN ASSOCIATED BRAIN HEMMORAGE HE
 WAS UNCONSCIOUS HE EXPIRED 24 HOURS LATER IN A HOSPITAL WITHOUT REGAINING CONSCIOUSNESS --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 14 SEX: M
 DISPOSITION: FATALITY EVENT-TYPE: FALL(FROM ELEVATION)
 INJ NATURE: FRACTURE ENVIR FACTOR: WORK-SURFACE/FACIL-LAYOUT COND
 INJ SOURCE: BUILDINGS/STRUCTURES HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: MULTIPLE HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

30

OSHA INVESTIGATIVE SUMMARY REPORT

REPORTING ID: 0626000 CORPUS CHRISTI
 EVENT TIME: 0 OSHA-170 NR: 14402267
 EVENT DATE: 00/00/00 CASE REVIEWED: NO

| RELATED INSPEC NR | SIC | FIRM SIZE | SITE SIZE | INJ LN HR | S E X | A O E | I N J | N A T Y | P D Y | S R C | E V T | E N V M K | H U M K | T S C O D E | SUBS C O D E | OCC C O D E | EVENT (OSHA36) | DT (OSHA-1) | OPENDATE (OSHA-1) |
|----------------------|------|--------------|--------------|-----------------|-------------|-------------|-------------|------------------|-------------|-------------|-------------|-----------------------|------------------|----------------------------|--------------------------|-------------------------|-------------------|----------------|----------------------|
| 100653260 | 1799 | 4 | 1 | 1 | M | 17 | 1 | 10 | 19 | 15 | 12 | 8 | 1 | 1 | | | 0 | 06/19/87 | 06/23/87 |
| | | | | 2 | M | 53 | 5 | 10 | 12 | 15 | 14 | 8 | 18 | 1 | | | 0 | 06/19/87 | 06/23/87 |
| 100652122 | | | | 981 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | 0 | 06/19/87 | 5/23/87 |

CITATION: 100653260 S 1 1 A 19260021 B02
 S 1 1 B 19260550 A15 I

EVENT TYPE: ELECTROCUTION WHILE USING CRANE

EVENT KEYWORDS:

ASBTRACT:

ON JUNE 19 1987 AT APPROXIMATELY 10:04 AM EMPLOYEES #1 AND #2 WERE PREPARING TO LAY DOWN A LIGHT STANDARD (POLE) HAVING 2 ARMS WITH A LIGHT ON EACH ARMS THE TOTAL HEIGHT OF THE LIGHT STANDARD WAS 42 FT THE STANDARD HAD BEEN MOUNTED 21 FT WASY FROM OVERHEAD POWERLINES 7200 VOLTS THE POWER LINES WERE 29 FT ABOVE GROUND LEVEL THE CRANE RAISED THE STANDARD TO CLEAR THE BOLTS AND THEN MOVED APPROX 15 FEET AWAY FROM THE POWER LINES BEFORE THEY STARTED TO LOWER THE STANDARD EMPLOYEE #2 STOOD ON THE BASE OF THE STANDARD AS THE STANDARD WAS LOWER EMPLOYEE #1 STOOD APPROX 2 FT FROM THE POLE AS THE TOP OF THE LIGHT CAME IN CONTACT WITH THE OVERHEAD LINE EMPLOYEE #2 JUMPED FREE OF THE POLE EMPLOYEE #1 RECEIVED A SHOCK & FELL ON HIS RIGHT SIDE COMING IN CONTACT WITH THE ENERGIZED POLE AT WHICH TIME HE WAS ELECTROCUTED EMPLOYEE #2 REC'D BURNT HAND AS HE ATTEMPTED TO PULL EMPLOYEE #1 AWAY FROM THE POLE

LEMAN CO' CONSTRUCTION CO. 0751910-S 104225693 M1667-C 1629
 Y THEDE IDENCE - 3 MILES 10/05/88 UN-FATCAT SAFETY 675 2
 DRID IA 50156 10/05/88 11833 COMPREH PRIV SEC 2
 ONE 015 11/14/88 (NONE) NONUNION SPG-CONST 2 (PENALTIES PAID)
 A360740864
 1926.021 B02 S 01001 10/10/88 10/15/88 X 350 225 0 INFORMAL
 1926.651 101 S 01002 10/10/88 10/15/88 X 350 225 0 INFORMAL
 1926.652 A S 01003 10/10/88 10/15/88 X 350 225 0 INFORMAL
 TOTAL PENALTIES 1050 675 0

Y00399(BHB) 05/04/90 OFFICE OF MANAGEMENT DATA SYSTEMS

BOHRIG CONSULTING SERVICES

A Branch of The Boeing Company

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FEDERAL AND 18 STATE INSPECTIONS WITH ACCIDENT VICTIMS
 JANUARY 1987 - DECEMBER 1989

PAGE: 4976

| ESTABLISHMENT INSPECTED ADDRESS CITY COUNTY (NAME/CODE) | STATE ZIP | REPORT ID OPEN DATE CLOSECONF CASE CLSD | ACTIVITY# INSP TYPE OPT REPT# PREV ACT RELTD ACT | CSHO CATEGORY SCOPE UNION | SIC1/SIC2 \$REMITTED OWNERSHIP CLASS | EMPESTAB EMPINSP EMPCNTRL | LWDI | STANDARD | CITATION TYP IDENT | R E C | ISSUANCE DATE | ABATE DATE | ABT CMP CDE | INITIAL PENALTY | CURRENT PENALTY | CURRENT C F-T-A N PENALTY T | HAZD SETTLM-T DISPOS-N | SUBS CODE |
|--|-----------|--|--|------------------------------------|---|---------------------------------|------|----------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------------|------------------------------|--------------|
|--|-----------|--|--|------------------------------------|---|---------------------------------|------|----------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------------|------------------------------|--------------|

 LEMAN CONSTRUCTION CO. 0751910-S 104225693 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 827238 DATE: 10-01-88 KEYWDS: DESCRIP: TRENCH CAVE-IN
 ABSTRACT: THIS WORKER WAS BURIED WHEN A TRENCH CAVED IN --- (ABSTRACT NOT REVIEWED)
 VICTIM: 001 AGE: 16 SEX: M
 DISPOSITION: FATALITY EVENT-TYPE: CARD-VASC/RESP FAIL.
 INJ NATURE: ASPHYXIA ENVIR FACTOR: OTHER
 INJ SOURCE: DIRT/SAND/STONE HUMAN FACTOR: EQUIP. INAPPROPR FOR OPERATION
 PART-OF-BODY: CHEST HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

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OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FEDERAL AND 18B STATE INSPECTIONS WITH ACCIDENT VICTIMS
 JANUARY 1987 - DECEMBER 1989

ESTABLISHMENT INSPECTED REPORT ID ACTIVITY# CSHO SIC1/SIC2
 ADDRESS OPEN DATE INSP TYPE CATEGORY \$REMITTED
 CITY STATE ZIP CLOSECONF OPT REPT# SCOPE OWNERSHIP EMPINSP LWDI
 COUNTY (NAME/CODE) CASE CLSD PREV ACT UNION CLASS EMPCNTRL

| STANDARD | CITATION TYP IDENT | R E C | ISSUANCE DATE | ABATE DATE | ABT CMP CDE | INITIAL PENALTY | CURRENT PENALTY | CURRENT C F-T-A N PENALTY T | HAZD SETTLM-T DISPOS-N | HAZD SUBS CODE |
|--------------------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------------|------------------------------|----------------------|
| ***** | | | | | | | | | | |
| ITEM INDUSTRIES | 0931800 | | 106979032 | K1182-C | 1522 | | | | | |
| COLE STREET | 12/06/88 | | UN-FATCAT | SAFETY | 1140 | 3 | | | | |
| FRANCISCO CA 94117 | 12/06/88 | | 89023 | COMPREH | PRIV SEC | 3 | | | | |
| FRANCISCO 075 | 6/07/89 | | (NONE) | NONUNION | SPG-CONST | 15 | (PENALTIES PAID) | | | |
| | | | A360399752 | | | | | | | |
| 1926.500 G01 | S 01001 | | 1/04/89 | 1/07/89 | X | 810 | 405 | 0 | INFORMAL | |
| 1926.500 G05 | S 01002 | I | 1/04/89 | 1/17/89 | X | 490 | 245 | 0 | INFORMAL | |
| 1926.500 G05 | S 01003 | III | 1/04/89 | 1/17/89 | X | 490 | 245 | 0 | INFORMAL | |
| DEL-1926.500 G05 | S 01004 | VI | 1/04/89 | 1/17/89 | X | 640 | | | INFORMAL | |
| 1926.500 G06 | S 01005 | III | 1/04/89 | 1/17/89 | X | 490 | 245 | 0 | INFORMAL | |
| | | | TOTAL PENALTIES | | | 2920 | 1140 | 0 | | |

*** ACCIDENT DATA ***

SUMMARY # 517417 DATE: 12-03-88 KEYWDS: DESCRIP: FALL FROM ROOF
 ABSTRACT: A 17 YEAR OLD STUDENT HIRED AS A LABORER/HELPER TO WORK WITH HIS BROTHER (FOREMAN) & FATHER (KETTLEMAN) TO PERFORM BUILT-UP ROOFING ACTIVITY ON SATURDAY FOR A "SMALL", 2000SQ. FT. JOB. THE DECEASED FELL 4 STORIES TO HIS DEATH SHORTLY AFTER STARTING BACK TO WORK FROM LUNCH BREAK. HIS FIRST TIME WORKING ON A ROOF THE DECEASED WAS ROLLING OUT PAPER NEAR THE EDGE AND TACKING IT DOWN. THE BROTHER & FATHER BOTH EXPERIENCED WERE NEWLY HIRED BY THE GENERAL CONTRACTOR BECAUSE THE G.C. NEEDED A CREW FOR A FEW JOBS. THE G.C. WAS NOT NORMALLY ENGAGED IN BUILT-UP ROOFING ACTIVITY, HOWEVER HAD INSTALLED BUILT-UP ROOFING PREVIOUSLY OVER THE COMPANY'S 17 YEARS EXISTENCE. NO FORMAL TRAINING WAS PROVIDED BY THE G.C. FOR ANY OF THE MEMBERS OF THE ROOFING CREW. NO MOTION STOPPING SYSTEM OR SAFETY MONITORING SYSTEM WAS IMPLEMENTED. WORK PLACE SAFETY HAD BEEN DISCUSSED WITH THE BROTHER & FATHER OF THE DECEASED. AT THE TIME OF INITIAL INTERVIEW 4 DAYS PRIOR TO THE ACCIDENT. A JOB SUPERINTENDENT FOR THE G.C. HAD VISITED THE SITE THE DAY BEFORE THE ACCIDENT TO ASSURE THAT SUCH ITEMS AS FIRE EXTINGUISHERS AND HARD HATS WERE PRESENT AND IN USE. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 17 SEX: M
 DISPOSITION: FATALITY EVENT-TYPE: FALL (FROM ELEVATION)
 INJ NATURE: OTHER ENVIR FACTOR: WORK-SURFACE/FACIL-LAYOUT COND
 INJ SOURCE: WORKING SURFACE HUMAN FACTOR: MALFUNC IN SECURING/WARNING OP
 PART-OF-BODY: MULTIPLE HAZ SUBSTANCE: NO SUBSTANCE IMPLICATED

33

ALLEY CARPENTRY INC 0950411-B 108161332 V0136-C 175 5.0
 300 E L REALES RD 2/21/90 UN-FATCAT SAFETY 1
 Tucson AZ 85706 3/01/90 0715 PARTIAL PRIV SEC 1
 ima 019 3/02/90 I014609994 NONUNION SPG-CONST 12
 A360184121

**** ACCIDENT DATA ****

SUMMARY # 170064455 DATE: 2-20-90 KEYWDS: DESCRIP: STRUCK BY A D9N TRACK TYPE TRACTOR
 ABSTRACT: AT 2,36PM 2-20-90 EMPLOYEE #1 WAS AT THE CITY OF TUCSON LOS REALES LANDFILL FOR THE PURPOSE OF DUMPING TRASH FROM A DUMP TRUCK, WHEN HE WAS STRUCK BY A D9N TRACK-TYPE TRACTOR AND KILLED, THE OPERATOR OF THE TRACTOR DID NOT SEE THE VICTIM. THE VICTIM HAD HIS BACK TOWARDS THE TRACTOR. (ABSTRACT NOT REVIEWED)

QY50638(BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1990 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PAGE: 69
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | | | | | | | | | | | | | | | |
|-------------------------|-----------|-----------|----------|------------|----------|---------|---------|---------|---------|---------|----------|----------|------|--|--|--|--|--|--|--|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | | | | | | | | | | | | | | | |
| CITY STATE ZIP | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP | LWDI | | | | | | | | | | | | | | |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL | | | | | | | | | | | | | | | |
| | RELTD ACT | | | | | | | | | | | | | | | | | | | |
| | | GR | ABT | | | | | | | | | | | | | | | | | |
| STANDARD | CITATION | RE | ISSUANCE | ABATE | CMP | INITIAL | CURRENT | INITIAL | CURRENT | C | SETTLM-T | HAZD | | | | | | | | |
| | TYP | IDENT | VC | DATE | DATE | CDE | PENALTY | PENALTY | PENALTY | PENALTY | N | DISPOS-N | SUBS | | | | | | | |
| | | | | | | | | | | | T | /FINORDT | CODE | | | | | | | |

 ALLEY CARPENTRY INC 0950411-S 108161332 *** CONTINUED ***

VICTIM: 001 AGE: 16 SEX: M OCCUP: Construction trades, n.e.c.
 DISPOSITION : FATALITY EVENT-TYPE : STRUCK BY
 INJ NATURE : OTHER ENVIR FACTOR: MATERIALS HANDLG EQUIP./METHOD
 INJ SOURCE : MOTOR VEHICLE(INDUS)- HUMAN FACTOR: MATER-HANDLG PROCED. INAPPROPR
 PART-OF-BODY: MULTIPLE HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

34

FORD ELECTRICAL CONTRACTOR 0453710-S 018464438 F3066-C 1731 18.0
 18 WILLOW ND ROAD 9/05/90 UN-FATCAT SAFETY 840 5
 elius NC 28031 9/06/90 073-90 PARTIAL PRIV SEC 3
 clenburg 119 11/26/90 (NONE) NONUNION 5 (PENALTIES PAID)
 A360488944

OPT-INFO: N-01 018464453 S-02 1606922
 S-03 15 S-04 R

| REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | EMPESTAB | EMPINSP | EMPCNTRL | INITIAL | CURRENT | C SETTLM-T | HAZD |
|-----------------|-----------|---------|-----------------------|--------|----------|---------|----------|---------|---------|------------|------|
| 1926.021 | B02 | S 01001 | 05A 11/06/90 11/16/90 | X 140 | 140 | 0 | 0 | | | | |
| 1926.404 | B01 | S 01002 | 05A 11/06/90 11/13/90 | X 140 | 140 | 0 | 0 | | | | |
| 1926.404 | F06 | S 01003 | 05A 11/06/90 11/13/90 | X 140 | 140 | 0 | 0 | | | | |
| 1926.405 | A02 | S 01004 | 05A 11/06/90 11/13/90 | X 140 | 140 | 0 | 0 | | | | |
| 1926.405 | B02 | S 01005 | 05A 11/06/90 11/13/90 | X 140 | 140 | 0 | 0 | | | | |
| 1926.416 | A01 | S 01006 | 05A 11/06/90 11/13/90 | X 140 | 140 | 0 | 0 | | | | |
| 1926.416 | E01 | O 02001 | 02 11/06/90 11/13/90 | X 0 | 0 | 0 | 0 | | | | |
| TOTAL PENALTIES | | | | 840 | 840 | 0 | 0 | | | | |

**** ACCIDENT DATA ****

SUMMARY # 170055560 DATE: 8-28-90 KEYWDS: DESCRIP: ELETROCUTION
 ABSTRACT: WHILE CHECKING A TOGGLE SWITCH (WHICH WAS ENERGIZED) FOR PROPER CONNECTION THE RELEASED, JOHN RICHARD PROCTOR, AGE 17, MADE INADVERTENT CONTACT WITH A LIVE PART OF THE SWITCH AND WAS ENERGIZED THE ENERGIZED CIRCUIT WAS 120 V.A.C.
 --- (ABSTRACT NOT REVIEWED)

0638 (BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

ODHAR 1990 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PAGE: 746
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | EMPESTAB | EMPINSP | EMPCNTRL | INITIAL | CURRENT | C SETTLM-T | HAZD |
|-------------------------|-----------|-----------|----------|------------|----------|----------|---------|----------|---------|---------|------------|------|
| STATE | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | | | | | | | |
| STATE ZIP | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP | LWDI | | | | | | |
| Y (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL | | | | | | | |
| | RELTD ACT | | | | | | | | | | | |
| STANDARD | CITATION | GR | RE | ISSUANCE | ABATE | CMP | INITIAL | CURRENT | INITIAL | CURRENT | C SETTLM-T | HAZD |
| | TYP IDENT | VC | DATE | DATE | CDE | PENALTY | PENALTY | PENALTY | PENALTY | PENALTY | N DISPOS-N | SUBS |
| | | | | | | | | | | | T /FINORDT | CODE |

 FORD ELECTRICAL CONTRACTOR 0453710-S 018464438 *** CONTINUED ***

VICTIM: 001 AGE: 17 SEX: M OCCUP: Electricians' apprentices
 DISPOSITION : FATALITY EVENT-TYPE : SHOCK
 INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: CATCH POINT/PUNCTURE ACTION
 INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: HAND(S) HAZ SUBSTNCE: ELECTRICAL SHOCK

35

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

| ESTABLISHMENT INSPECTED ADDRESS CITY COUNTY (NAME/CODE) | STATE | ZIP | REPORT ID OPEN DATE CLOSECONF CASE CLSD | ACTIVITY# INSP TYPE OPT REPT# PREV ACT RELTD ACT | CSHO CATEGORY SCOPE UNION | SIC1/SIC2 \$REMITTED OWNERSHIP CLASS | SUMHRS EMPESTAB EMPINSP EMPCNTRL | LWDI | GR RE VC | ISSUANCE DATE | ABATE DATE | ABT CMP CDE | INITIAL PENALTY | CURRENT PENALTY | INITIAL F-T-A PENALTY | CURRENT F-T-A PENALTY | C N T | SETTLM-T DISPOS-N /FINORDT | HAZD SUBS CODE | |
|--|-------|--------------|--|--|--|---|---|------|----------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|-------------|----------------------------------|----------------------|--|
| ***** | | | | | | | | | | | | | | | | | | | | |
| JAMES HOLT AND DONNIE MOORE 1700 EAGLE LANDING BLVD. Hanahan Berkeley | SC | 29406 015 | 0454510-S 11/02/90 11/03/90 5/06/91 | 111023925 UN-FATCAT 1605-91 (NONE) | C1959-C SAFETY PARTIAL NONUNION | 1761 0 PRIV SEC SPG-CONST | 33.7 7 7 7 | | | | | | | | | | | | | |
| | | | | A360496061 | | | | | | | | | | | | | | | | |
| 1926.028 A | | | S 01001 | 06 | 1/28/91 | 1/31/91 | X | 480 | 480 | | | | 0 | 0 | | | | | | |
| 1926.405 A10 | | | S 01002 | 05 | 1/28/91 | 1/31/91 | X | 210 | 210 | | | | 0 | 0 | | | | | | |
| 1926.050 C | | | O 02001 | 00 | 1/28/91 | 4/01/91 | X | 0 | 0 | | | | 0 | 0 | | | | | | |
| | | | | | TOTAL PENALTIES | | | 690 | 690 | | | | 0 | 0 | | | | | | |
| ***** ACCIDENT DATA ***** | | | | | | | | | | | | | | | | | | | | |

SUMMARY # 800045 DATE:10-31-90 KEYWDS: DESCRIP:FALL FROM BUILDINGS
 ABSTRACT: EMPLOYEE WAS CUTTING SHINGLES OVERLAPES WHILE WALKING BACKWARD DOWN THE ROOF. THE WORKERS WERE ON THE ROOF OF BUILDING W
 HICH WAS 27 FEET & 3 INCHES HIGH. NO EQUIPMENT INVOLVED. EMPLOYEES PUTTING DOWN BELT AND SHINGLES. DEATH CAUSED FROM BRO
 KEN BONES AND MASSACRE BLEEDING INSIDE. EMPLOYEE WAS NOT USING SAFETY BELT OR ANY MEANS OF FALL PROTECTION.
 --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 15 SEX: M OCCUP: Roofers
 DISPOSITION : FATALITY EVENT-TYPE : FALL (FROM ELEVATION)
 INJ NATURE : OTHER ENVIR FACTOR: OTHER
 INJ SOURCE : OTHER HUMAN FACTOR: INSUF/LACK/PROTCV WRK CLTHG/EQUIP
 PART-OF-BODY: HEAD HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

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OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

| ESTABLISHMENT INSPECTED ADDRESS CITY COUNTY (NAME/CODE) | STATE ZIP | REPORT ID OPEN DATE CLOSECONF CASE CLSD RELTD ACT | ACTIVITY# INSP TYPE OPT REPT# PREV ACT RELTD ACT | CSHO CATEGORY SCOPE UNION | SIC1/SIC2 \$REMITTED OWNERSHIP CLASS | SUMHRS EMPESTAB EMPINSP EMPCNTRL | LWDI |
|--|-----------|---|--|------------------------------------|---|---|------|
|--|-----------|---|--|------------------------------------|---|---|------|

| STANDARD | CITATION TYP IDENT | GR RE VC | ISSUANCE DATE | ABATE DATE | ABT CMP CDE | INITIAL PENALTY | CURRENT PENALTY | INITIAL F-T-A PENALTY | CURRENT F-T-A PENALTY | C SETTLM-T N DISPOS-N T /FINORDT | HAZD SUBS CODE |
|----------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|--|----------------------|
|----------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|--|----------------------|

 & B STEEL ERECTORS INC.
 5A SHANNON DRIVE
 Fredericksburg VA 22401
 Fredericksburg 630

| | | | | | | | | | | | |
|-----------|------------|----------|-----------|---|--|-------|--|--|--------------------|--|--|
| 0355114-S | 105721179 | C1209-C | 1791 | | | 305.5 | | | | | |
| 4/25/90 | UN-FATCAT | SAFETY | | 0 | | 6 | | | | | |
| 4/27/90 | 025/90 | COMPREH | PRIV SEC | | | 6 | | | | | |
| 10/02/94 | A360299564 | NONUNION | SPG-CONST | | | 7 | | | (PENALTIES WAIVED) | | |
| | A360299564 | | | | | | | | | | |

OPT-INFO: N-01 105721179

S-03 50000.00

| | | | | | | | | | | | |
|-----------------|-----|---------|----|----------|----------|---|-------|-------|---|---|------------|
| 1926.021 | B02 | S 01001 | 09 | 10/05/90 | 10/23/90 | X | 900 | 900 | 0 | 0 | Y 1-082291 |
| 1926.350 | A01 | S 01002 | 07 | 10/05/90 | 10/09/90 | X | 700 | 700 | 0 | 0 | Y 1-082291 |
| 1926.350 | A09 | S 01003 | 07 | 10/05/90 | 10/09/90 | X | 700 | 700 | 0 | 0 | Y 1-082291 |
| 1926.350 | J | S 01004 | 07 | 10/05/90 | 10/09/90 | X | 700 | 700 | 0 | 0 | Y 1-082291 |
| 51.001 | A | W 02001 | 10 | 10/05/90 | 10/09/90 | X | 10000 | 10000 | 0 | 0 | Y 1-082291 |
| 51.001 | A | W 03001 | 10 | 10/05/90 | 10/09/90 | X | 10000 | 10000 | 0 | 0 | Y 1-082291 |
| 1926.028 | A | W 03002 | 09 | 10/05/90 | 10/09/90 | X | 9000 | 9000 | 0 | 0 | Y 1-082291 |
| 1926.550 | B02 | W 03003 | 09 | 10/05/90 | 10/09/90 | X | 9000 | 9000 | 0 | 0 | Y 1-082291 |
| 1926.602 | C01 | W 03004 | 09 | 10/05/90 | 10/09/90 | X | 9000 | 9000 | 0 | 0 | Y 1-082291 |
| 1926.152 | A01 | O 04001 | | 10/05/90 | 10/09/90 | X | 0 | 0 | 0 | 0 | Y 1-082291 |
| 1926.404 | F06 | O 04002 | | 10/05/90 | 10/09/90 | X | 0 | 0 | 0 | 0 | Y 1-082291 |
| TOTAL PENALTIES | | | | | | | 50000 | 50000 | 0 | 0 | |

**** ACCIDENT DATA ****

SUMMARY # 894147 DATE: 4-25-90 KEYWDS: DESCRIPT: FALL FROM ROOF BEAMS
 ABSTRACT: EMPLOYEE # 1,2,3, & 4 WERE SITTING ON STEEL ROOF BEAMS BOLTING BEAMS TO COLUMNS AND CONNECTING ROOF PURLINS TO BEAMS. EMPLOYEE 1 AND 2 WERE BOLTING BEAMS TO COLUMNS AND EMPLOYEES 3 AND 4 WERE SITTING ON THE BEAMS TO CONNECT ROOF PURLINS WHEN A GUST OF WIND CAME UP AND THE COLUMNS IN DOMINO FASHION. EMPLOYEE 3 FELL APPROXIMATELY 25 FEET TO HIS DEATH. EMPLOYEE 1,2 AND 4 FELL AND WERE HOSPITALIZED. TEMPORARY AND PERMANENT BRACING ALMOST NON-EXISTANT. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 16 SEX: M OCCUP: Helpers, construction trades
 DISPOSITION : FATALITY EVENT-TYPE : FALL (FROM ELEVATION)
 INJ NATURE : FRACTURE ENVIR FACTOR: WEATHER, EARTHQUAKE, ETC.
 INJ SOURCE : BUILDINGS/STRUCTURES HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: CHEST HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

37

JOHNSON'S DRIVE INN 0627100 107574956 M5140-C 154 40.0
 614 SO. 1ST ST. 7/10/91 UN-FATCAT SAFETY 6
 McGehee AR 71654 7/11/91 1532 COMPREH PR1 SEC 6
 Desha 041 10/01/91 (NONE) NONUNION SPG-CONST 6 (PENALTIES PAID)

OPT-INFO: N-01 107574956

| OPT-INFO | DATE | ACTIVITY | CSHO | SIC1/SIC2 | SUMHRS | 300 | 750 | 0 | 0 | INFORMAL |
|------------------|------|-------------|---------|-----------|--------|------|------|---|---|----------|
| 1910.212 A05 | | S 01001 02 | 7/31/91 | 8/06/91 X | 600 | 300 | 750 | 0 | 0 | INFORMAL |
| 1926.403 I02 | I | S 01002 10 | 7/31/91 | 8/06/91 X | 1500 | 750 | 750 | 0 | 0 | INFORMAL |
| 1926.404 F07 | IV | S 01003A 10 | 7/31/91 | 8/06/91 X | 1500 | 750 | 750 | 0 | 0 | INFORMAL |
| 1926.404 F07 | IV | S 01003B 02 | 7/31/91 | 8/06/91 X | 0 | 0 | 0 | 0 | 0 | INFORMAL |
| 1926.405 A02 | IIJ | S 01003C 10 | 8/15/91 | 8/20/91 X | 0 | 0 | 0 | 0 | 0 | INFORMAL |
| 1926.405 A02 | III | S 01003D 10 | 8/15/91 | 8/20/91 X | 0 | 0 | 0 | 0 | 0 | INFORMAL |
| DEL-1926.405 A02 | IIJ | S 01004 10A | 7/31/91 | 8/06/91 X | 1500 | 1500 | 1500 | 0 | 0 | INFORMAL |
| DEL-1926.405 G02 | III | S 01005 10A | 7/31/91 | 8/06/91 X | 1500 | 1500 | 1500 | 0 | 0 | INFORMAL |
| 1903.002 A01 | | O 02001 00 | 7/31/91 | 8/06/91 X | 300 | 0 | 0 | 0 | 0 | |
| 1926.404 B01 | I | O 02002 01 | 7/31/91 | 8/06/91 X | 6900 | 1800 | 1800 | 0 | 0 | |
| TOTAL PENALTIES | | | | | 6900 | 1800 | 1800 | 0 | 0 | |

QY50638 (BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | | | | | | | | | | | | | | |
|-------------------------|-----------|-----------|----------|------------|----------|------|--|--|--|--|--|--|--|--|--|--|--|--|--|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | | | | | | | | | | | | | | |
| CITY | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP | LWDI | | | | | | | | | | | | | |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL | | | | | | | | | | | | | | |
| | RELTD ACT | | | | | | | | | | | | | | | | | | |

 JOHNSON'S DRIVE INN 0627100 107574956 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 564526 DATE: 7-09-91 KEYWDS: DESCRIP: ELECTRICAL SHOCK
 ABSTRACT: EMPLOYEE #1 TOOK A BREAK AS A LABORER AND LAYED DOWN FACE FIRST ON THE CONCRETE FLOOR IN FRONT OF A SQUIRREL CAGE FAN. HE PLACED HIS HAND ON THE POWER CORD. HE THEN WIPED HIS FOREHEAD AND PLACED HIS HAND BACK ON THE POWER CORD AND RECEIVED A FATAL ELECTRIC SHOCK. THE POWER CORD HAD EXPOSED ELECTRICAL WIRE, 115 VOLT. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 14 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : SHOCK
 INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: OTHER
 INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: DEFECTIVE EQUIPMENT IN USE
 PART-OF-BODY: BODYSYSTEM HAZ SUBSTANCE: NO SUBSTANCE IMPLICATED

38

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

| | | | | | | |
|-------------------------|-----------|-----------|----------|------------|----------|------|
| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | |
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | |
| CITY | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP | LWDI |
| COUNTY (NAME/CODE) | STATE ZIP | CASE CLSD | PREV ACT | UNION | EMPCNTRL | |
| | | RELTD ACT | | CLASS | | |

| STANDARD | CITATION TYP | GR RE IDENT | ISSUANCE VC | ABATE DATE | ABT CMP CDE | INITIAL PENALTY | CURRENT PENALTY | INITIAL F-T-A PENALTY | CURRENT F-T-A PENALTY | C SETTLM-T N DISPOS-N T /FINORDT | HAZD SUBS CODE |
|--------------------------------|--------------|-------------|-----------------|------------|-------------|-----------------|------------------|-----------------------|-----------------------|----------------------------------|----------------|
| ***** | | | | | | | | | | | |
| CLAY HILL UTILITY CONSTRUCTION | 0418100 | 110113008 | S4059-C | 1623 | | 60.0 | | | | | |
| INTER. OF PEACTREE IND. BLVD. | 8/07/91 | UN-FATCAT | SAFETY | 550 | | 5 | | | | | |
| Doraville | GA 30360 | 8/22/91 | 204 | COMPREH | PRIV SEC | 5 | | | | | |
| De Kalb | 089 | 2/21/92 | (NONE) | NONUNION | SPG-CONST | 5 | (PENALTIES PAID) | | | | |
| | | | A360144653 | | | | | | | | |
| 1926.020 B01 | S 01001 | 10 | 9/03/91 | 10/21/91 | X | 1500 | 275 | 0 | 0 | Y F-022392 | |
| 1926.021 B06 | I S 01002 | 10 | 9/03/91 | 10/21/91 | X | 1500 | 275 | 0 | 0 | Y F-022392 | |
| | | | TOTAL PENALTIES | | | 3000 | 550 | 0 | 0 | | |

**** ACCIDENT DATA ****

SUMMARY # 14332860 DATE: 8-07-91 KEYWDS:

DESCRIP: ASPHYXIATION-DROWNING

ABSTRACT: ON AUGUST 7, 1991, AT APPROXIMATELY 3:00PM, EMPLOYEE #1 OF THE BORING COMPANY ENTERED A 23 1/4" DIAMETER STEEL TUBE RUNNING HORIZONTALLY FOR 200 FEET AND 8 TO 12 FEET UNDER PEACHTREE INDUSTRIAL BLVD. EMPLOYEE #1 LAYED ON A SKATEBOARD CARRYING AN ELECTRONIC DEVICE IN ORDER TO LOCATE WHERE ROCK HAD PREVENTED FURTHER BORING OPERATIONS. EMPLOYEE #2 LOCATED OUTSIDE THE TUBE, KEPT IN CONSTANT COMMUNICATION WITH EMPLOYEE #1. AFTER APPROXIMATELY 20 MINUTES, EMPLOYEE #1 STOPPED COMMUNICATION AND EMPLOYEE #2 CALLED FOR HELP. EMPLOYEE #1 WAS RETRIEVED BY LOCAL RESCUE PERSONNEL AND PRONOUNCED DEAD AT THE SCENE. CAUSAL FACTORS INCLUDED NO TESTING OF THE ATMOSPHERE BEFORE ENTERING THE TUBE, NO RESPIRATOR EQUIPMENT USED, NO VENTILATION USED, AND NO LIFELINE ATTACHED TO EMPLOYEE #1. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001

AGE: 16

SEX: M OCCUP: Not reported

DISPOSITION : FATALITY

EVENT-TYPE : CARD-VASC/RESP FAIL.

INJ NATURE : ASPHYXIA

ENVIR FACTOR: GAS/VAPOR/MIST/FUME/SMOKE/DUST

INJ SOURCE : OTHER

HUMAN FACTOR: NO PERSONAL PROTECTIVE EQ USED

PART-OF-BODY: BODYSYSTEM

HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

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OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

| | | | | | | |
|-------------------------|-----------|-----------|-----------|------------|----------|-----------|
| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | |
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | |
| CITY | STATE | ZIP | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP |
| COUNTY (NAME/CODE) | CASE | CLSD | PREV ACT | UNION | CLASS | EMPCNTRL |
| | | RELTD | ACT | | | LWDI |

| STANDARD | CITATION | GR | RE | ISSUANCE | ABATE | ABT | INITIAL | CURRENT | INITIAL | CURRENT | C | SETTLM-T | HAZD |
|--------------------|-----------|------------|---------|----------|-----------|-----|---------|------------------|---------|---------|---|----------|------|
| | TYP | IDENT | VC | DATE | DATE | CDE | PENALTY | PENALTY | F-T-A | F-T-A | N | DISPOS-N | SUBS |
| | | | | | | | | | | | T | /FINORDT | CODE |
| ***** | | | | | | | | | | | | | |
| CRAIG CONSTRUCTION | 0751910-S | 115043887 | D0897-C | 1542 | | | 59.5 | | | | | | |
| 108 2ND AVENUE | 7/08/91 | UN-FATCAT | SAFETY | 2000 | | | 1 | | | | | | |
| Armstrong | IA 50514 | 7/10/91 | 13073 | COMPREH | PRIV SEC | | 1 | | | | | | |
| Emmet | 063 | 7/24/92 | (NONE) | NONUNION | SPG-CONST | | 10 | (PENALTIES PAID) | | | | | |
| | | A360201263 | | | N:TRENCH | | | | | | | | |
| 1926.651 C02 | S 01001 | 10A | 8/12/91 | 8/15/91 | X | | 1500 | 250 | 0 | 0 | Y | F-070192 | |
| 1926.651 J02 | S 01002 | 10A | 8/12/91 | 8/15/91 | X | | 1500 | 350 | 0 | 0 | Y | F-070192 | |
| 1926.651 K01 | S 01003 | 10A | 8/12/91 | 8/15/91 | X | | 1500 | 350 | 0 | 0 | Y | F-070192 | |
| 1926.652 A01 | S 01004 | 10A | 8/12/91 | 8/15/91 | X | | 1500 | 350 | 0 | 0 | Y | F-070192 | |
| 3.001 | O 02001 | 00A | 8/12/91 | 8/15/91 | X | | 300 | 100 | 0 | 0 | Y | F-070192 | |
| 4.004 2 | O 02002 | 00A | 8/12/91 | 8/15/91 | X | | 300 | 100 | 0 | 0 | Y | F-070192 | |
| 4.008 | O 02003 | 00A | 8/12/91 | 8/15/91 | X | | 1500 | 500 | 0 | 0 | Y | F-070192 | |
| 120.003 1 | O 02004 | A | 8/12/91 | 9/18/91 | X | | 0 | 0 | 0 | 0 | Y | F-070192 | |
| 120.005 1 | O 02005 | A | 8/12/91 | 9/18/91 | X | | 0 | 0 | 0 | 0 | Y | F-070192 | |
| 120.006 | O 02006 | A | 8/12/91 | 9/18/91 | X | | 0 | 0 | 0 | 0 | Y | F-070192 | |
| 1910.134 B01 | O 02007 | A | 8/12/91 | 9/18/91 | X | | 0 | 0 | 0 | 0 | Y | | |
| | | | | TOTAL | PENALTIES | | 8100 | 2000 | 0 | 0 | | | |

**** ACCIDENT DATA ****

SUMMARY # 170126619 DATE: 7-01-91 KEYWDS: DESCRIP:TRENCH CAVE-IN
 ABSTRACT: ON JULY 1,1991, AT APPROXIMATELY 7,30PM. EMPLOYEE #1 WAS LAYING A 4 INCHX10 FOOT LENGH OF DRAIN TILE IN A TRENCH 40FT LO
 NGX2FT WIDE AND APPROXIMATELY 9FT DEEP. THE WALLS WERE ALMOSt VERTICLE AND NOT SHORED. THE NORTH SIDE BANK CAVED-IN AND
 EMPLOYEE #1 WAS COVERED WITH DIRT, RESULTING IN DEATH CAUSED BY SUFFOCATION. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 16 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : STRUCK BY
 INJ NATURE : ASPHYXIA ENVIR FACTOR: WORK-SURFACE/FACIL-LAYOUT COND
 INJ SOURCE : DIRT/SAND/STONE HUMAN FACTOR: OTHER
 PART-OF-BODY: LUNG HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

40

EASTERN PRIVATE INDUSTRY COUNCIL 0627700 107520744 Y7081-C 16 96.0
 6 MI SO. OF HWY 64 6/26/91 UN-FATCAT SAFETY 0 100
 Gora OK 74435 6/28/91 1434 PARTIAL PRIV SEC 1
 Sequoyah 135 7/30/92 (NONE) NONUNION SPG-CONST 100
 A360642680

QY50638 (BHB) 95/06/28 ISTATE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1991

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

PAGE: 2429

| ESTABLISHMENT INSPECTED ADDRESS CITY STATE ZIP COUNTY (NAME/CODE) | REPORT ID OPEN DATE CLQSECONF CASE CLSD | ACTIVITY# INSP TYPE OPT REPT# PREV ACT RELTD ACT | CSHO CATEGORY UNION | SIC1/SIC2 \$REMITTED OWNERSHIP CLASS | SUMHRS EMPESTAB EMPINSP EMPCNTRL | LWDI | STANDARD | CITATION TYP IDENT | GR RE VC | ISSUANCE DATE | ABATE DATE | ABT CMP CDE | INITIAL PENALTY | CURRENT PENALTY | INITIAL F-T-A PENALTY | CURRENT F-T-A PENALTY | C SETTLM-T N DISPOS-N T /FINORDT | HAZD SUBS CODE |
|--|--|--|---------------------------|---|---|------|----------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|--|----------------------|
|--|--|--|---------------------------|---|---|------|----------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|--|----------------------|

 EASTERN PRIVATE INDUSTRY COUNCIL 0627700 107520744 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 14494876 DATE: 6-25-91 KEYWDS: DESCRIP: STRUCK BY REAR WHEELS OF DUMP TRUCK
 ABSTRACT: EMPLOYEE #1 WAS STANDING ON THE RUNNING BOARD ON THE PASSENGER SIDE OF A CHEVROLET C-65 FLAT BED TRUCK, WHEN THE TRUCK STARTED, EMPLOYEE #1 FELL OFF THE RUNNING BOARD AND UNDER THE REAR WHEELS OF THE TRUCK. AT THE TIME OF THE ACCIDENT EMPLOYEE #1 WAS WORKING ON A ROAD PATCHING CREW THE VEHICLE WAS ABOUT TO BE WEIGHTED AT A LOCAL SET OF PRIVATE SCALES USED FOR WEIGHTING SAND, GRAVEL AND ASPHALT. THE VEHICLE HAS STOPPED SO EE#1 COULD GET OUT OF THE BACK OF THE VEHICLE SO THE TRUCK COULD BE WEIGHT AND IT'S LOAD OF ASPHALT DETERMINED. EMPLOYEE #1 WAS CRUSHED UNDER THE WEIGHT OF THE COMBINED WEIGHT OF THE VEHICLE AND THE ASPHALT. AT THE TIME OF THE ACCIDENT EMPLOYEE #1 WAS STANDING ON THE RUNNING BOARD OF THE TRUCK TALLING TO ANOTHER EMPLOYEE SITTING IN THE PASSENGER'S SEAT OF THE TRUCK. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 16 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : STRUCK BY
 INJ NATURE : OTHER ENVIR FACTOR: MATERIALS HANDLG EQUIP./METHOD
 INJ SOURCE : MOTOR VEHICLE (HWY) HUMAN FACTOR: MATER-HANDLG PROCED. INAPPROPR
 PART-OF-BODY: CHEST HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

41

HORIZON TRUCKING & EXCAVATING 1055320-S 111248175 T6976-C 1794
 BLACK N ST ROAD 7/22/91 UN-FATCAT SAFETY 4
 Issaquah WA 98027 7/22/91 836119225 COMPREH PR1 SEC 4
 King 033 9/16/91 (NONE) UNION L:CONSTR 65 (PENALTIES PAID)
 A361192255

OPT-INFO: 8-01 600525643
 8-08 CHRIS NICHOL
 8-11 206-827-8761

8-06 CHRIS NICHOL
 8-09 CHRIS NICHOL

| | | | | | | | | | |
|-----------------|---------|---|---------|---------|---|-----|-----|---|---|
| 1550.04001 | S 01001 | A | 9/06/91 | 7/22/91 | X | 350 | 350 | 0 | 0 |
| 1550.03502 | S 01002 | A | 9/06/91 | 7/22/91 | X | 210 | 210 | 0 | 0 |
| TOTAL PENALTIES | | | | | | 560 | 560 | 0 | 0 |

**** ACCIDENT DATA ****

SUMMARY # 170047294 DATE: 7-22-91 KEYWDS: DESCRIP: CRUSHED WHEN COMPACTION ROLLER OVERTURNED
 ABSTRACT: the compaction roller was being operated to close to the side of road bank and the machine operator was not wearing his seat belt and was thrown from compaction roller during the machine tipping onto its side at which time the operator was pinned and crushed beneath the rollover protection device. --- (ABSTRACT NOT REVIEWED)

QY50638 (BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1991

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

PAGE: 2803

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS |
|-------------------------|-----------|-----------|----------|------------|----------|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB |
| CITY | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL |
| | | RELTD ACT | | | |

| STANDARD | CITATION | GR | RE | ISSUANCE | ABATE | ABT | CMP | INITIAL | CURRENT | INITIAL | CURRENT | C | SETTLM-T | HAZD |
|----------|----------|-------|----|----------|-------|-----|---------|---------|---------|---------|---------|---|----------|------|
| | TYP | IDENT | VC | DATE | DATE | CDE | PENALTY | PENALTY | PENALTY | F-T-A | F-T-A | N | DISPOS-N | SUBS |
| | | | | | | | | | | | | T | /FINORDT | CODE |

 HORIZON TRUCKING & EXCAVATING 1055320-S 111248175 *** CONTINUED ***

VICTIM: 001 AGE: 17 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : CAUGHT IN OR BETWEEN
 INJ NATURE : BRUISE/CONTUS/ABRAS ENVIR FACTOR: SQUEEZE POINT ACTION
 INJ SOURCE : BOILER/PRESS VESSEL HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: CHEST HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

42

PARTON & EDWARDS PROPERTIES 0950645-S 112094990 T2018-C 16" 35.5
 222 MEI ROAD 10/09/92 UN-FATCAT SAFETY 11
 Santa Barbara CA 93109 10/09/92 037/93 PARTIAL PRIV SEC 1
 Santa Barbara 083 4/03/95 A362158107 NONUNION SPG-CONST 11 (PENALTIES WAIVED)
 A362158107

OPT-INFO: 8-03 X

| | | | | | | | |
|--------|---------|-----------------|------------|------|------|---|---|
| 1517 A | O 01001 | 11/17/92 | 11/17/92 X | 150 | 150 | 0 | 0 |
| 1509 A | O 02001 | 11/17/92 | 12/17/92 X | 500 | 500 | 0 | 0 |
| 1511 B | O 03001 | 11/17/92 | 12/17/92 X | 500 | 500 | 0 | 0 |
| | | TOTAL PENALTIES | | 1150 | 1150 | 0 | 0 |

QY50638 (BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1992

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

PAGE: 2994

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS |
|-------------------------|-----------|-----------|----------|------------|----------|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB |
| CITY | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL |
| | RELTD ACT | | | | |

| STANDARD | CITATION | GR | RE | ISSUANCE | ABATE | ABT | INITIAL | CURRENT | INITIAL | CURRENT | C | SETTLM-T | HAZD |
|----------|--------------|------|------|----------|-------|---------|---------|---------|---------|---------|---|----------|------|
| | TYP IDENT VC | DATE | DATE | DATE | CDE | PENALTY | PENALTY | PENALTY | PENALTY | PENALTY | N | DISPOS-N | SUBS |
| | | | | | | | | | | | T | /FINORDT | CODE |

 PARTON & EDWARDS PROPERTIES 0950645-S 112094990 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 170695506 DATE:10-08-92 KEYWDS: DESCRIP:TRUSS BOOM FELL ON FACE & THROAT
 ABSTRACT: A 16' 9" TRUSS BOOM WEIGHING APPROX 800#'S WAS STACKED CROSS WAYS ON A STACK OF LUMBER APPROX 4' 11" BY 4' WIDE BOTH END
 S OF BOOM HANGING OVER EDGE OF PILE BY 5'-6' THE VICTIM WAS CAUGHT UNDER HEAVY END OF AS IT FELL ON HIM. THE BOOM CONNEC
 TING END (CONNECTED TO A MODEL 8A-24 FORKLIFT) FELL ACROSS VICTIMS JAW, MOUTH THROAT PINNING HIM UNDER BOOM CAUSING ASPH
 YXIA. BOOM WAS IMPROPERLY STACKED. VICTIM WAS UNTRAINED IN HAZARD BOOM PRESENTED. EMPLOYER WAS CITED BY FED LABOR DEPT,
 STATE LABOR & WILL BE CITED BY CAL-OSHA FOR NO IIPP. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 13 SEX: M OCCUP: Construction laborers
 DISPOSITION : FATALITY EVENT-TYPE : STRUCK BY
 INJ NATURE : ASPHYXIA ENVIR FACTOR: OVERHEAD MOVING/FALLING OBJ AC
 INJ SOURCE : MATERIALS HANDLG EQ. HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: FACE HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

43

ROBISON & HAUER MASONRY CORPOR 0551800-S 124054594 R8233-C 1741 86.5
(SCOTTSBURG PLASTICS TAD PLANT 12/16/92 UN-FATCAT SAFETY 3487 4
Scottsburg IN 47170 1/20/93 08193 PARTIAL PRIV SEC 4
Scott 143 4/27/94 (NONE) NONUNION SPG-CONST 5 (PENALTIES PAID)
A361307648

| | | | | | | | | | | |
|-----------------|---------|----|---------|---------|---|------|------|---|---|------------|
| 1926.021 B02 | S 01001 | 10 | 2/02/93 | 2/05/93 | X | 1500 | 1125 | 0 | 0 | Y R-031794 |
| 1926.416 A01 | S 01002 | 10 | 2/02/93 | 2/05/93 | X | 1500 | 1125 | 0 | 0 | Y R-031794 |
| 1926.451 D03 | S 01003 | 02 | 2/02/93 | 2/05/93 | X | 600 | 450 | 0 | 0 | Y R-031794 |
| 1926.451 D10 | S 01004 | 05 | 2/02/93 | 2/05/93 | X | 1050 | 787 | 0 | 0 | Y R-031794 |
| 1926.451 A03 | O 02001 | 01 | 2/02/93 | 2/05/93 | X | 0 | 0 | 0 | 0 | Y R-031794 |
| 1926.451 D04 | O 02002 | 01 | 2/02/93 | 2/05/93 | X | 0 | 0 | 0 | 0 | Y R-031794 |
| TOTAL PENALTIES | | | | | | 4650 | 3487 | 0 | 0 | |

**** ACCIDENT DATA ****

SUMMARY # 170105795 DATE:12-15-92 KEYWDS:

DESCRIP: ELECTRICAL SHOCK

ABSTRACT: ON DECEMBER 15 1995, AT APPROXIMATELY 2:15 PM, TWO HAD CARRIERS, WORKING ON TOP OF A 15 FEET HIGH TUBULAR WELDER FRAME SCAFFOLD, WERE ATTEMPTING TO DROP A 20 FOOT LONG 1/2 INCH DIAMETER REINFORCING ROD UBTI A 19 FEET 4 INCH HIGH CONCRETE BLOCK WALL. WHEN THE 20 FOOT LONG REINFORCING ROD CAME IN CONTACT WITH A 7200 VOLT POWER LINE LOCATED APPROXIMATELY 11 FEET 6 INCHES ABOVE THE SCAFFOLD OR 26 FEET 6 INCHES ABOVE THE GROUND. EMPLOYEE #1 RECEIVED A FATAL ELECTRIC SHOCK AND EMPLOYEE #2 WAS HOSPITALIZED AND RELEASED THE NEXT DAY AFTER OBSERVATION AND TREATMENT FOR INJURIES RECEIVED TO HIS LEFT HAND AND KNEE.

--- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 17 SEX: M OCCUP: Construction laborers
DISPOSITION : FATALITY EVENT-TYPE : SHOCK
INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: WORK-SURFACE/FACIL-LAYOUT COND
INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
PART-OF-BODY: BODYSYSTEM HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

44

 REMIUM PERSONNEL, INC. 0552700-8 120434139 B1819-C 1799 92.0
 7016 GLENWOOD AVE 7/10/92 UN-FATCAT SAFETY 19450 3
 akerville MN 55044 8/13/92 14892 PARTIAL PRIV SEC 3
 akota 037 11/01/94 (NONE) NONUNION 15
 A360241152

1926.021 B02 S 01001 00A 8/26/92 9/08/92 X 4550 4550 0 0
 182.65304 A W 02001 00 1/08/93 1/13/93 X 31500 15000 0 0 Y F-082093
 TOTAL PENALTIES 36050 19550 0 0

QY50638(BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1992

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

PAGE: 3461

ESTABLISHMENT INSPECTED REPORT ID ACTIVITY# CSHO SIC1/SIC2 SUMHRS
 ADDRESS OPEN DATE INSP TYPE CATEGORY \$REMITTED EMPESTAB
 CITY STATE ZIP CLOSECONF OPT REPT# SCOPE OWNERSHIP EMPINSP LWDI
 COUNTY (NAME/CODE) CASE CLSD PREV ACT UNION CLASS EMPCTRL
 RELTD ACT

STANDARD CITATION GR RE ISSUANCE ABATE ABT INITIAL CURRENT INITIAL CURRENT C SETTLM-T HAZD
 TYP IDENT VC DATE DATE CDE PENALTY PENALTY PENALTY PENALTY N DISPOS-N SUBS
 T /FINORDT CODE

 PREMIUM PERSONNEL, INC. 0552700-8 120434139 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 998625 DATE: 7-09-92 KEYWDS: DESCRIP: STRUCK BY BUCKET OF SKID-STEER LOADER
 ABSTRACT: AT APPROX 8:00 AM ON 7-9-92 4-MAN WAS OPERATIONAL A CASE 1845 SKID STEER LOADER ON A DOWN SLOPE HILL APPROX. A 5:1 PITCH
 (12") BUCKET DOWNHILL TO PULL SILT FENCE & POST FROM GROUND TO PREPARE FOR HOLDING OPERATOR WOULD POSITION BUCKET UNDER
 FENCE. LABORER WOULD WRAP FENCE ON BUCKET OPERATOR WOULD THEN LIFT STRAIGHT UP TO PULL UP FENCE. AS FENCE LIFTED OUT OPE
 RATOR WOULD MOVE & RE-POSITION TO CONTINUE LIFT. ON 3RD LIFT OPERATOR HAD BUCKET APPROX 6' IN AIR LOADER BECAME UNSTABLE
 & BEGAN TO TIP FORWARD. OPERATOR LOWERED BUCKET TO STABILIZE. THE VICTIM WAS ON THE LEFT SIDE BY BUCKET TO STABILIZE, V
 ICTIM SLIPPED AND FELL & THE LEFT CORNER OF THE BUCKET HIT VICTIM'S CHEST. VICTIM DIED IN SURGERY LATER IN DAY.
 --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 MI I AGE: 16 SEX: M OCCUP: Laborers, except construction
 DISPOSITION : FATALITY EVENT-TYPE : STRUCK BY
 INJ NATURE : CUT/LACERATION ENVIR FACTOR: MATERIALS HANDLG EQUIP./METHOD
 INJ SOURCE : MATERIALS HANDLG EQ. HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: LUNG HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

45

Roxboro Person

NC 27573 8/03/92 005-92 COMPREH PRIV
145 6/28/93 (NONE) NONUNION
A360490874

3
3 (PENALTIES PAID)

OPT-INFO: N-01 111137733
S-03 66

N-20 LATE NOTICE

| | | | | | | | | | |
|-----------------|-----|------------|---------|-----------|-------|------|---|---|------------|
| 1926.021 B02 | | S 01001 00 | 9/21/92 | 9/28/92 X | 2800 | 280 | 0 | 0 | Y J-043093 |
| 1926.404 B01 | I | S 01002 00 | 9/21/92 | 9/28/92 X | 2800 | 280 | 0 | 0 | Y J-043093 |
| 1926.404 F06 | | S 01003 00 | 9/21/92 | 9/28/92 X | 2800 | 280 | 0 | 0 | Y J-043093 |
| 1926.405 G02 | III | S 01004 00 | 9/21/92 | 9/28/92 X | 2800 | 280 | 0 | 0 | Y J-043093 |
| 1926.405 G02 | IV | S 01005 00 | 9/21/92 | 9/28/92 X | 2800 | 280 | 0 | 0 | Y J-043093 |
| 1926.416 E01 | | S 01006 00 | 9/21/92 | 9/28/92 X | 2800 | 280 | 0 | 0 | Y J-043093 |
| TOTAL PENALTIES | | | | | 16800 | 1680 | 0 | 0 | |

QY50638(BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1992

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
FROM JANUARY 1990 THROUGH DECEMBER 1994

PAGE: 3535

| ESTABLISHMENT INSPECTED ADDRESS CITY COUNTY (NAME/CODE) | STATE ZIP | REPORT ID OPEN DATE CLOSECONF CASE CLSD | ACTIVITY# INSP TYPE OPT REPT# PREV ACT RELTD ACT | CSHO CATEGORY SCOPE UNION | SIC1/SIC2 \$REMITTED OWNERSHIP CLASS | SUMHRS EMPESTAB EMPINSP EMPCNTRL | LWDI | GR RE VC | ISSUANCE DATE | ABATE DATE | ABT CMP CDE | INITIAL PENALTY | CURRENT PENALTY | INITIAL F-T-A PENALTY | CURRENT F-T-A PENALTY | C SETTLM-T N DISPOS-N T /FINORDT | HAZD SUBS CODE |
|--|-----------|--|--|------------------------------------|---|---|------|----------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|--|----------------------|
|--|-----------|--|--|------------------------------------|---|---|------|----------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|--|----------------------|

FRANK EDWARD DAVIS DBA FRANK'S 0453710-S 111137741 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 170063846 DATE: 7-14-92 KEYWDS: DESCRIPTOR: ELECTROCUTED BY IMPROPERLY SPLICED CABLE
 ABSTRACT: ON 7-14-92 AT APPROXIMATELY 10:45 A.M., ROOFING EMPLOYEE WAS ELECTRO-CUTED WHILE USING A NON-DOUBLE-INSULATED MILWAUKEE
 HAND DRILL. DRILL WAS PLUGGED INTO TWO 100' LENGTH EXTENSION CORDS, BOTH OF WHICH HAD THEIR EQUIPMENT GROUNDING PRONGS
 REMOVED. DRILL EQUIPMENT GROUNDING PRONG WAS INTACT. THE EXTENSION CORD THAT WAS DIRECTLY PLUGGED INTO THE DRILL HAD BEEN
 IMPROPERLY SPLICED. INSULATION ON BOTH THE EQUIPMENT GROUNDING CONDUCTOR AND HOT CONDUCTOR HAD BEEN REMOVED, EXPOSING
 BARE COPPER CONDUCTORS. THE CONDUCTORS WERE THEN TAPED ALTOGETHER (NOT INDIVIDUALLY WRAPPED) WITH DUCT TAPE EVIDENCING
 THAT THE BARE HOT AND GROUNDING CONDUCTORS MADE CONTACT AND ELECTRICITY FLOWED THROUGH THE GROUNDED METAL DRILL HOUSING
 WHICH EMPLOYEE WAS HOLDING IN BOTH HANDS WHILE IN CONTACT WITH THE CONDUCTIVE METAL ROOF. NO GFCI WAS USED, EMPLOYEE
 WAS PERSPIRING DUE TO HOT AND HUMID WEATHER CONDITIONS --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 17 SEX: M OCCUP: Construction laborers
 DISPOSITION : FATALITY EVENT-TYPE : SHOCK
 INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: OTHER
 INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: BODYSYSTEM HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

46

| | | | | | |
|------------------------------|----------|---------|--------|--------------------|---|
| LAKE OF SHARBOROUGH-LOT 199) | 6/14/93 | UN-PAID | DATE: | 6 | |
| New Haven | IN 46774 | 6/21/93 | 11093 | PARTIAL PRIV | 6 |
| Allen | 003 | 8/20/93 | (NONE) | NONUNION SPG-COAST | 7 |

A361307721

OPT-INFO: 8-01 311-58-7221

**** ACCIDENT DATA ****

SUMMARY # 758987 DATE: 6-08-93 KEYWDS: DESCRIP: STRUCK BY LIGHTING
 ABSTRACT: EMPLOYEE #1 WAS WORKING ON THE GROUND ASSISTING OTHER EMPLOYEES INSTALLING THE ROOF ON THE RESIDENTIAL HOME. A THUNDERSTORM BLEW INTO THE AREA AND THE EMPLOYEES MOVED INSIDE THE COVERED GARAGE. EMPLOYEE #1 WAS STANDING IN THE CENTER OF THE GARAGE WHEN LIGHTING CAME DOWN GABLE OF HOUSE, UNDER THE GARAGE HEADER, AND STRUCK HIM. EMPLOYEE #1 DIED OF CARDIAC ARREST DUE TO ELECTROCUTION. --- (ABSTRACT NOT REVIEWED)

QY50638 (BHB) 95/06/28 ISTATE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1993

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | | | | | | | | |
|-------------------------|-----------|-----------|----------|------------|----------|------|--|--|--|--|--|--|--|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | | | | | | | | |
| CITY STATE ZIP | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP | LWDI | | | | | | | |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL | | | | | | | | |
| | RELTD ACT | | | | | | | | | | | | |

| STANDARD | CITATION | GR | ISSUANCE | ABATE | CMP | INITIAL | CURRENT | INITIAL | CURRENT | C SETTLM-T HAZD |
|----------|-----------|----|----------|-------|-----|---------|---------|---------|---------|-----------------|
| | TYP IDENT | VC | DATE | DATE | CDE | PENALTY | PENALTY | F-T-A | F-T-A | N DISPOB-N SUBS |
| | | | | | | | | PENALTY | PENALTY | T /FINORDT CODE |

BEN WITTMER AND SONS CONSTRUCT 0551800-B 108621947 *** CONTINUED ***

VICTIM: 001 AGE: 15 SEX: M OCCUP: Carpenter apprentices
 DISPOSITION : FATALITY EVENT-TYPE : STRUCK BY
 INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: WEATHER, EARTHQUAKE, ETC.
 INJ SOURCE : WIND/LIGHTNING, ETC. HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: BODYSYSTEM HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

47

D & J CONSTRUCTION, INC. 0625700 107635682 HO151-C 1011- 17.0
 101 BLA: LANE 7/27/93 UN-FATCAT SAFETY 4 150
 West Mon. LA 71292 7/27/93 325 PARTIAL PRI. SEC 12
 Ouachita 073 9/27/93 (NONE) NONUNION 150 (PENALTIES PAID)
 A360907356

OPT-INFO: N-98 X

| | | | | | | | | | | |
|--------------|---------|-----|-----------------|---------|---|------|------|---|---|----------|
| 1926.020 B04 | S 01001 | 10A | 8/24/93 | 8/30/93 | X | 3500 | 2275 | 0 | 0 | INFORMAL |
| 1926.601 B09 | S 01002 | 10A | 8/24/93 | 8/30/93 | X | 3500 | 2275 | 0 | 0 | INFORMAL |
| | | | TOTAL PENALTIES | | | 7000 | 4550 | 0 | 0 | |

QY50638 (BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

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| STABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | | | | | | | | | | |
|------------------------|-----------|-----------|----------|------------|----------|---------|---------|---------|---------|---------|---------|---|----------|------|-----|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | | | | | | | | | | |
| CITY | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP | LWDI | | | | | | | | | |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL | | | | | | | | | | |
| | RELTD ACT | | | | | | | | | | | | | | |
| | | GR | ABT | | | | | | | | | | | | |
| STANDARD | CITATION | RE | ISSUANCE | ABATE | CMP | INITIAL | CURRENT | INITIAL | CURRENT | F-T-A | F-T-A | N | DISPOS-N | HAZ | HAZ |
| | TYP | IDENT | VC | DATE | DATE | CDE | PENALTY | PENALTY | PENALTY | PENALTY | PENALTY | T | /FINORDT | CODE | |

 D & J CONSTRUCTION, INC. 0625700 107635682 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 170082010 DATE: 7-24-93 KEYWDS: DESCRIP: STRUCK BY OVER TURNING MOTOR VEHICLE WITH ROPS
 ABSTRACT: THE VICTIM WAS OPERATING BROCE T-15 POWER BROOM USED TO SWEEP DEBRIS FROM A ROAD, SUB-BASE PRIM TO INSTALLATION OF ASPHALT. THERE WERE NO WITNESSES TO THE ACCIDENT. THE DECEASED EVIDENTLY LOST CONTROL OF THE VEHICLE AND AS IT WAS OVERTURNING HE WAS THROWN FROM THE POWER BROOM AND STRUCK BY THE ROLL OVER PROTECTIVE SYSTEM. NO SEAT BELT HAD BEEN PROVIDED ON THE MOTOR VEHICLE. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 17 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : STRUCK BY
 INJ NATURE : OTHER ENVIR FACTOR: MATERIALS HANDLG EQUIP./METHOD
 INJ SOURCE : MOTOR VEHICLE (INDUS) HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: BODYSYSTEM HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

48

SPRINGFIELD STEEL ERECTORS, IN 0112600 102859527 V8152-C 1791
 PALMER INDUSTRIAL PARK THIRD S 11/05/93 UN-FATCAT SAFETY 1300 8
 Three Rivers MA 01080 12/07/93 256 PARTIAL PRIV SEC 3
 Hampden 013 3/13/95 (NONE) UNION 8 (PENALTIES PAID)
 A360319180

OPT-INFO: N-98 X

| | | | | | | | | |
|--------------|------------|-----------------|-----------|------|------|---|---|----------|
| 1926.416 A03 | S 01001 10 | 1/06/94 | 1/12/94 X | 1500 | 900 | 0 | 0 | INFORMAL |
| 1926.100 A | S 01002 03 | 1/06/94 | 1/12/94 X | 750 | 400 | 0 | 0 | INFORMAL |
| | | TOTAL PENALTIES | | 2250 | 1300 | 0 | 0 | |

**** ACCIDENT DATA ****

SUMMARY # 668434 DATE:11-04-93 KEYWDS: DESCRIP:FALL FROM FIXED LADDER
 ABSTRACT: A WORKER WHO WAS ESTIMATING THE REMOVAL OF AN OUTSIDE OVERHEAD CRANE CLIMBED UP ON THE CRANES FIXED LADDER TO INSPECT THE
 MANNER IN WHICH IT WAS PUT TOGETHER. WHILE UP ON THE 32FT LADDER HE FELL. FALLING AN ESTIMATED 20 FEET TO HIS DEATH.
 --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 17 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : FALL(FROM ELEVATION)
 INJ NATURE : FRACTURE ENVIR FACTOR: WORK-SURFACE/FACIL-LAYOUT COND
 INJ SOURCE : LADDER HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: NECK HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

49

WEATHER SHIELD COMPANY, INCORP 0352420-S 119560530 C1194-C 1/81 25.4
 162 FLORIAN AVENUE 9/30/93 UN-FATCAT SAFETY 549 4
 Pigeonstown MD 21740 10/12/93 C11920214 COMPREH PRIV 4
 Washington 043 3/01/95 (NONE) NONUNION SPG-CONST 4 (PENALTIES PAID)
 A360619654

OPT-INFO: 8-10 05/03/94

| AMOUNT | TYPE | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | EMPESTAB | EMPCNTRL | OWNERSHIP | LWDI | STATUS | |
|----------|------|-----------|------|-----------|----------|----------|----------|-----------|------|--------|------------|
| 1926.500 | F06 | 8 01001 | 08 | 12/02/93 | 12/02/93 | X | 3200 | 2240 | 0 | 0 | Y F-050394 |
| 1926.500 | G01 | 8 02001 | 08 | 12/02/93 | 12/02/93 | X | 1200 | 840 | 0 | 0 | Y F-050394 |
| 1926.500 | G06 | 8 02002 | 08 | 12/02/93 | 12/02/93 | X | 1200 | 840 | 0 | 0 | Y F-050394 |
| 19101200 | E01 | 8 03001 | 06 | 12/02/93 | 1/04/94 | X | 900 | 630 | 0 | 0 | Y F-050394 |
| 19101200 | G01 | 8 03002 | 06 | 12/02/93 | 12/02/93 | X | 0 | 0 | 0 | 0 | Y F-050394 |
| 19101200 | H | 8 03003 | 06 | 12/02/93 | 1/04/94 | X | 0 | 0 | 0 | 0 | Y F-050394 |
| 5.405 | B01 | 8 03004 | 03 | 12/02/93 | 12/02/93 | X | 0 | 0 | 0 | 0 | Y F-050394 |
| 5.406 | A01 | 8 03005 | 03 | 12/02/93 | 12/20/93 | X | 0 | 0 | 0 | 0 | Y F-050394 |
| 1926.020 | B01 | 8 04001 | 06 | 12/02/93 | 12/02/93 | X | 900 | 630 | 0 | 0 | Y F-050394 |

QY50638 (BHB) 95/06/28 ISTATE, OFFICE OF MANAGEMENT DATA SYSTEMS

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| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | EMPESTAB | EMPCNTRL | OWNERSHIP | LWDI | STANDARD | CITATION | GR | RE | ISSUANCE | ABATE | ABT | INITIAL | CURRENT | INITIAL | CURRENT | C SETTLM-T | HAZD | |
|-------------------------|-----------|-----------|----------|------------|----------|----------|----------|-----------|------|----------|----------|-------|----|----------|-------|-----|---------|---------|---------|---------|------------|----------|------|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | | | | | | TYP | IDENT | VC | DATE | DATE | CDE | PENALTY | PENALTY | F-T-A | F-T-A | N | DISPOS-N | SUBS |
| CITY | CLOSECONF | OPT REPT# | SCOPE | CLASS | EMPCNTRL | | | | | | | | | | | | | | | | T | /FINORDT | CODE |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | RELTD ACT | | | | | | | | | | | | | | | | | | | |

WEATHER SHIELD COMPANY, INCORP 0352420-S 119560530 *** CONTINUED ***
 1926.020 B02 8 04002 06 12/02/93 12/02/93 X 0 0 0 0 Y F-050394
 19261053 B05 I 0 05001 03 12/02/93 12/02/93 X 450 315 0 0 Y F-050394
 TOTAL PENALTIES 7850 5495 0 0

**** ACCIDENT DATA ****

SUMMARY # 170749501 DATE: 9-30-93 KEYWDS: DESCRIP: 28' FALL THROUGH SKYLIGHT
 ABSTRACT: VICTIM WAS INSTALLING SINGLE-PLY PVC ROOF MATERIAL ON FLAT ROOF OF WAREHOUSE. VICTIM SAT DOWN ON SKYLIGHT WITH 1/4" PLEXIGLAS COVER. PLEXIGLAS COLLAPSED IMMEDIATELY AND VICTIM FELL 28' TO CONCRETE WAREHOUSE FLOOR. VICTIM WAS PRONOUNCED DEAD OF SEVERE HEAD TRAUMA ON THE SCENE BY CORONER. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 16 SEX: M OCCUP: Roofers
 DISPOSITION: FATALITY EVENT-TYPE: FALL (FROM ELEVATION)
 INJ NATURE: FRACTURE ENVIR FACTOR: WORK-SURFACE/FACIL-LAYOUT COND
 INJ SOURCE: BODILY MOTION HUMAN FACTOR: INSUFF/LACK/WRTN WRK PRAC PROG.
 PART-OF-BODY: HEAD HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

50

NEW RIVER ADVENTURE/LANSING R 9/09/93 UN-FATCAT SAFETY 3
 Lansing WV 25862 9/27/93 283 COMPREH PR: EC 3
 Fayette 019 (OPEN) (NONE) NONUNION 3

1926.020 B01 S 01001A 03 10/28/93 11/02/93 X 1050 1050 0 0
 1926.020 B02 S 01001B 03 10/28/93 11/02/93 X 0 0 0 0
 1926.059 E01 S 01001C 01 10/28/93 11/02/93 X 0 0 0 0
 1926.021 B02 S 01002A 10A 10/28/93 11/02/93 X 1500 1500 0 0

QY50638 (BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1993

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ESTABLISHMENT INSPECTED REPORT ID ACTIVITY# CSHO SIC1/SIC2 SUMHRS
 ADDRESS OPEN DATE INSP TYPE CATEGORY \$REMITTED EMPESTAB
 CITY STATE ZIP CLOSECONF OPT REPT# SCOPE OWNERSHIP EMPINSP LWDI
 COUNTY (NAME/CODE) CASE CLSD PREV ACT UNION CLASS EMPCTRL

STANDARD CITATION GR RE ISSUANCE ABATE ABT INITIAL CURRENT C SETTLM-T HAZD
 TYP IDENT VC DATE DATE CDE PENALTY PENALTY F-T-A F-T-A N DISPOS-N SUBS
 PENALTY PENALTY T /FINORDT CODE

 CHARLES GREENWAY/NEWPORT TOWER 0316400 101174449 *** CONTINUED ***
 1926.850 A S 01002B 10A 10/28/93 11/02/93 X 0 0 0 0
 1926.095 A S 01003 01 10/28/93 11/02/93 X 450 450 0 0
 1926.100 A S 01004 01 10/28/93 11/02/93 X 450 450 0 0
 1926.102 A01 S 01005 01 10/28/93 11/02/93 X 450 450 0 0
 1903.002 A01 O 02001 00 10/28/93 11/02/93 X 300 300 0 0
 TOTAL PENALTIES 4200 4200 0 0

**** ACCIDENT DATA ****

SUMMARY # 14482509 DATE: NO DATE KEYWDS: DESCRIP: TOWER COLLAPSED
 ABSTRACT: TWO EMPLOYEES HAD BEEN DISMANTLING A DOUBLE LEGGED 150' ROHN TOWER THAT WAS OWNED BY A CABLE COMPANY. THEY HAD REMOVED ONE LEG AND 3 CROSS BRACINGS CONNECTING THE 2 LEGS TOGETHER. THE EMPLOYEES HAD ALSO REMOVED THE GUY WIRES. THE TWO INDIVIDUALS HAD ALMOST ASCENDED TO THE TOP OF THE EXISTING SECTION OF TOWER APPROXIMATELY 130' TO 135' WHEN THE TOWER STARTED LEANING AND COLLAPSED WITH THE EMPLOYEES. THE ACCIDENT OCCURRED 8-24-93 WITH THE ONE EMPLOYEE DYING FROM HIS INJURIES ON 9-7-93. THE OTHER EMPLOYEE HAD A CRACKED PELVIC BONE AND A RUPTURED SPLEEN. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 S AGE: 17 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : FALL (FROM ELEVATION)
 INJ NATURE : PUNCTURE ENVIR FACTOR: OTHER
 INJ SOURCE : OTHER HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: LUNG HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

VICTIM: 002 AGE: 32 SEX: M OCCUP: Not reported
 DISPOSITION : HOSPITALIZED INJURY EVENT-TYPE : FALL (FROM ELEVATION)
 INJ NATURE : FRACTURE ENVIR FACTOR: OTHER
 INJ SOURCE : OTHER HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: UPPER LEG HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

51

IC 73, BOX 3 11/14/94 UN-FATCAT SAFETY 3
 ountainvi AR 72560 11/14/94 2224 PARTIAL PRIV 3
 itone 137 12/23/94 (NONE) NONUNION SPG-CONST 3
 A360438808

OPT-INFO: N-06 123456

**** ACCIDENT DATA ****

SUMMARY # 568717 DATE: 11-12-94 KEYWDS: DESCRIP: FALL FROM
 ABSTRACT: VICTIM AGE 16 WAS ON THE ROOF OF A 27'8" METAL BUILDING WITH HIS FATHER WHEN HE STEPPED ON A PIECE OF INSULATION NOT COVERED WITH ROOF DECKING. VICTIM FELL TO THE CONCRETE SLAB BELOW, LANDING ON HIS LEFT SHOULDER AND HEAD AND SUFFERED MASSIVE HEAD INJURIES AND DIED. --- (ABSTRACT NOT REVIEWED)

QY50638(BHB) 95/06/28 ISTATE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1994 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PAGE: 5453
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
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| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | | | | | |
|-------------------------|-----------|-----------|----------|------------|----------|------|--|--|--|--|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | | | | | |
| CITY | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP | LWDI | | | | |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL | | | | | |
| | RELTD ACT | | | | | | | | | |

| STANDARD | CITATION | GR | ISSUANCE | ABATE | ABT | INITIAL | CURRENT | INITIAL | CURRENT | C SETTLM-T HAZD |
|----------|--------------|----|----------|-------|-----|---------|---------|---------|---------|-----------------|
| | TYP IDENT VC | RE | DATE | DATE | CDE | PENALTY | PENALTY | F-T-A | F-T-A | N DISPOS-N SUBS |
| | | VC | DATE | DATE | CDE | PENALTY | PENALTY | PENALTY | PENALTY | T /FINORDT CODE |

 ARKANSAS METAL BUILDING LTD. C 0627100 123383036 *** CONTINUED ***
 VICTIM: 001 AGE: 16 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : FALL (FROM ELEVATION)
 INJ NATURE : OTHER ENVIR FACTOR: OTHER
 INJ SOURCE : OTHER HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: OTHBODYSYS HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

52

AMERICAN AIR CONDITIONING CORP 0418800 109692749
 13 NE 10' 9/01/94 UN-FATCAT SAFETY 120 4
 North Miami FL 33161 1/11/95 369 COMPREH PRIV 4
 Side 025 6/06/95 (NONE) NONUNION SPG-CONST 4 (PENALTIES PAID)
 A361093677

OPT-INFO: N-20 PAY PLAN

N-98 X

| EMPLOYEE ID | STATUS | DESCRIPTION | START DATE | END DATE | WEEKS | AMOUNT | AMOUNT | AMOUNT | AMOUNT | STATUS |
|-----------------|--------|-------------|------------|----------|-------|--------|--------|--------|--------|----------|
| 1926.020 B01 | S | 01001A 05A | 1/26/95 | 3/15/95 | X | 1050 | 450 | 0 | 0 | INFORMAL |
| 1926.021 B02 | S | 01001B 05A | 1/26/95 | 3/15/95 | X | 0 | 0 | 0 | 0 | INFORMAL |
| 1926.416 A01 | S | 01002 10A | 1/26/95 | 3/15/95 | X | 1500 | 750 | 0 | 0 | INFORMAL |
| 1926.059 E01 | O | 02001A 00 | 1/26/95 | 2/28/95 | X | 0 | 0 | 0 | 0 | INFORMAL |
| 1926.059 E01 | O | 02001B 00 | 1/26/95 | 2/28/95 | X | 0 | 0 | 0 | 0 | INFORMAL |
| 1926.059 H | O | 02001C 00 | 1/26/95 | 2/28/95 | X | 0 | 0 | 0 | 0 | INFORMAL |
| TOTAL PENALTIES | | | | | | 2550 | 1200 | 0 | 0 | |

**** ACCIDENT DATA ****

SUMMARY # 924597 DATE: 8-27-94 KEYWDS: DESCRIP: ELECTROCUTED
 ABSTRACT: EMPLOYEE #1 WAS A HELPER DURING THE INSTALLATION OF A NEW AIR CONDITIONING SYSTEM IN A RESIDENCE. HE WAS WORKING IN THE ATTIC SPACE, PULLING A SECTION OF PIPE FROM AN OPENING IN THE WEST SIDE OF THE ATTIC SPACE, WHILE ANOTHER EMPLOYEE PUSHED IT. ALL OF THE SUDDEN, EMPLOYEES BELOW HEARD A BUMP AND A SCREAM, SO AN EMPLOYEE RAN UP TO THE ATTIC SPACE, CALLING EMPLOYEE #1'S NAME, BUT EMPLOYEE #1 DID NOT RESPOND, SO THE EMPLOYEE CALLED #1'S NAME, BUT EMPLOYEE #1 DID NOT RESPOND, SO THE EMPLOYEE CALLED ANOTHER EMPLOYEE TO THE ATTIC AND HE WENT ALSO INTO THE ATTIC. THEY SAW EMPLOYEE #1 ON THE ATTIC FLOORSPACE, FACE DOWN AND HEAD EAST. ONE OF THE EMPLOYEES TRIED TO REVIVE EMPLOYEE #1, WHILE OTHER EMPLOYEE CALLED FOR HELP. EMPLOYEE #1 WAS LYING NEXT TO AN ELECTRIC WATER HEATER. NUMEROUS ELECTRIC WIRES RAN THROUGHOUT THE ATTIC SPACE, AND SEVERAL JUNCTION BOXES DID NOT HAVE COVERS. GROUNDING WAS NOT PROVIDED FOR SOME OF THE WIRING IN THE ATTIC. EMPLOYEE #1 APPARENTLY CONTACTED SIMULTANEOUSLY AND ENERGIZED PART AND A GROUNDED SURFACE. --- (ABSTRACT NOT REVIEWED)

QY50638 (BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1994 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PAGE: 5649
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | | | | | |
|-------------------------|--------------|-------------|----------|------------|----------|---------|---------|-----------------|-----------------|--|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | | | | | |
| CITY | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP | LWDI | | | | |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL | | | | | |
| | RELTD ACT | | | | | | | | | |
| | | GR | ABT | INITIAL | CURRENT | INITIAL | CURRENT | C SETTLM-T HAZD | | |
| STANDARD | CITATION | RE ISSUANCE | ABATE | CMP | INITIAL | CURRENT | F-T-A | F-T-A | N DISPOS-N SUBS | |
| | TYP IDENT VC | DATE | DATE | CDE | PENALTY | PENALTY | PENALTY | PENALTY | T /FINORDT CODE | |

 AMERICAN AIR CONDITIONING CORP 0418800 109692749 *** CONTINUED ***

VICTIM: 001 J AGE: 17 SEX: M OCCUP: Plumber, pipefitter and steamfite
 DISPOSITION : FATALITY EVENT-TYPE : SHOCK
 INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: WORK-SURFACE/FACIL-LAYOUT COND
 INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: BODYSYSTEM HAZ SUBSTNCE: ELECTRICAL SHOCK

53

SIETSEMA EXCAVATING CO. 0552651-8 124972282 C0315-C 1611 37.1
 310 ALEWA N.W. 8/23/94 UN-FATCAT SAFETY 5 6
 Grand Rapids MI 49505 9/28/94 4-526/19 PARTIAL PRIV SEC 3
 Kent 081 11/29/94 (NONE) NONUNION SPG-CONST 6 (PENALTIES PAID)
 A360994362

OPT-INFO: 8-01 STREET

4082211701 O 01001 10 10/18/94 10/21/94 X 500 500 0 0

QY50638(BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1994

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER, 1994.

PAGE: 5960

| ESTABLISHMENT INSPECTED ADDRESS CITY STATE ZIP COUNTY (NAME/CODE) | REPORT ID OPEN DATE CLOSECONF CASE CLSD | ACTIVITY# INSP TYPE OPT REPT# PREV ACT RELTD ACT | CSHO CATEGORY | SIC1/SIC2 \$REMITTED OWNERSHIP CLASS | SUMHRS EMPESTAB EMPINSP EMPCNTRL | LWDI | STANDARD | CITATION TYP IDENT | GR RE VC | ISSUANCE DATE | ABATE DATE | ABT CMP CDE | INITIAL PENALTY | CURRENT PENALTY | INITIAL F-T-A PENALTY | CURRENT F-T-A PENALTY | C N T | SETTLM-T DISPOS-N /FINORDT | HAZD SUBS CODE |
|--|--|--|------------------|---|---|------|----------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|-------------|----------------------------------|----------------------|
|--|--|--|------------------|---|---|------|----------|-----------------------|-------------|------------------|---------------|-------------------|--------------------|--------------------|-----------------------------|-----------------------------|-------------|----------------------------------|----------------------|

 SIETSEMA EXCAVATING CO. 0552651-8 124972282 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 170210918 DATE: 8-19-94 KEYWDS: DESCRIP: BACKED OVER LABORER-COMMERCIAL
 ABSTRACT: MR WAS PART OF A THREE MAN CREW DOING FINAL GRADE WORK ON A STREET RESURFACING PROJECT. HE WAS DOING HAND GRADING
 AROUND A MANHOLE WHILE ANOTHER EMPLOYEE WAS BACKING THE DUMP TRUCK DOWN THE ROADWAY. THE REVERSE SIGNAL ALARM ON THE TRUCK
 WAS WORKING. SOMEHOW MR WAS STRUCK AND BACKED OVER BY THE RIGHT REAR DUAL WHEELS OF THE 15 YARD DUMP TRUCK. HAPPENED IN GRAND RAPIDS, AREA 19. STANDARDS: ADMINISTRATIVE RULE R408.22117 RULE 1117(1)(A-G) FAILURE TO REPORT? YES 1/0
 PENALTY \$500.00 EMPLOYER DATE OF INJURY 8-19-94 --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 17 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : STRUCK BY
 INJ NATURE : FRACTURE ENVIR FACTOR: OTHER
 INJ SOURCE : MOTOR VEHICLE(INDUS) HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
 PART-OF-BODY: MULTIPLE HAZ SUBSTANCE: NO SUBSTANCE IMPLICATED

54

110 BODTY 1E
Fremont
Dodge

NE 68025
053

8/12/94
12/05/94

UN-FRICKI SAFETY
279
(NONE) NONUNION
A360977672

PARTIAL PRI

4
4 (PENALTIES PAID)

OPT-INFO: N-01 109327007

N-98 X

| DEL-1926.021 B02 | B/O | 01001A | 10A | 10/20/94 | 12/02/94 | X | 3000 | 500 | 0 | 0 | INFORMAL |
|------------------|-----|--------|-----|----------|----------|---|-------|------|---|---|----------|
| DEL-1926.403 B01 | S | 01001B | 10A | 10/20/94 | 11/02/94 | X | 0 | | | | INFORMAL |
| DEL-1926.416 A01 | S | 01001C | 10A | 10/20/94 | 11/02/94 | X | 0 | | | | INFORMAL |
| 1926.416 A03 | S | 01002 | 10A | 10/20/94 | 12/02/94 | X | 3000 | 3000 | 0 | 0 | INFORMAL |
| DEL-1926.417 D02 | S | 01003 | 10A | 10/20/94 | 11/02/94 | X | 3000 | | | | INFORMAL |
| 1904.008 | O | 02001 | 00A | 10/20/94 | 12/02/94 | X | 3000 | 500 | 0 | 0 | INFORMAL |
| TOTAL PENALTIES | | | | | | | 12000 | 4000 | 0 | 0 | |

**** ACCIDENT DATA ****

SUMMARY # 14419980 DATE: 8-02-94 KEYWDS: DESCRIP: ELECTROCUTED
 ABSTRACT: EMPLOYEE #1 WAS REMOVING WATER LANE FROM A TOLLIT USING A PIPE WRENCH. THE WATER LINE WAS ENERIGIZED DUE FACILTY WIRING AND DUE POWER NET BEING ISOLATED AT THE MAIN SERVICE, EE#1 TOUCHED HIS LEFT WITH THE PIPE WRENCH AS HE WAS TURNING HIS PIPE AND WAS ELECTROCANS.
 --- (ABSTRACT NOT REVIEWED)

QY50638(BHB) 95/06/28 ISTATE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1994

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

PAGE: 6110

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS |
|-------------------------|-----------|-----------|----------|------------|----------|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB |
| CITY | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL |
| | | RELTD ACT | | | |

| STANDARD | CITATION | GR | ISSUANCE | ABATE | ABT | INITIAL | CURRENT | INITIAL | CURRENT | C | SETTLM-T | HAZD |
|----------|----------|----|----------|-------|-----|---------|---------|---------|---------|---|----------|------|
| TYP | IDENT | VC | DATE | DATE | CDE | PENALTY | PENALTY | F-T-A | F-T-A | N | DISPOS-N | SUBS |
| | | | | | | | | PENALTY | PENALTY | T | /FINORDT | CODE |

RICH OSTERLOH & SONS CONSTRUCT 0728900 109327007 *** CONTINUED ***

VICTIM: 001 AGE: 17 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : SHOCK
 INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: OTHER
 INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: LOCKOUT/TAGOUT PROCED MALFUNC
 PART-OF-BODY: CHEST HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

55

10 MI. N. OF WETUMKA, OK 6/21/94 UN-FATCAT SAFETY 3
 Wetumka OK 74883 6/22/94 742 COMPREH PRI SC 3
 Hughes 063 5/25/95 (NONE) NONUNION SPG-CONST 3 (PENALTIES PAID)
 A361148364

OPT-INFO: N-98 X

| Case No. | Activity | Start Date | End Date | Sum Hrs | Penalty | Other | Other | Other | Other |
|-----------------|----------------|------------|------------|---------|---------|-------|-------|-------|----------|
| 1926.021 B02 | S 01001A 05 | 10/24/94 | 10/29/94 X | 5000 | 2500 | 0 | 0 | 0 | INFORMAL |
| 1926.600 A03 | II S 01001B 05 | 10/24/94 | 10/29/94 X | 0 | 0 | 0 | 0 | 0 | |
| 1904.008 | O 02001 03 | 10/24/94 | 10/28/94 X | 1500 | 750 | 0 | 0 | 0 | INFORMAL |
| 1903.002 A01 | O 02002 00 | 10/24/94 | 10/28/94 X | 0 | 0 | 0 | 0 | 0 | |
| 1926.059 E01 | O 02003 00 | 10/24/94 | 11/06/94 X | 0 | 0 | 0 | 0 | 0 | |
| 1926.059 G01 | O 02004 00 | 10/24/94 | 11/06/94 X | 0 | 0 | 0 | 0 | 0 | |
| 1926.059 H | O 02005 00 | 10/24/94 | 11/06/94 X | 0 | 0 | 0 | 0 | 0 | |
| TOTAL PENALTIES | | | | 6500 | 3250 | 0 | 0 | 0 | |

QY50638 (BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1994

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

PAGE: 6284

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | | | | | |
|-------------------------|-----------|-----------|-----------|------------|----------|-----------|---------|---------|---------|-----------------|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | | | | | |
| CITY | STATE | ZIP | CLOSECONF | OPT REPT# | SCOPE | OWNERSHIP | EMPINSP | LWDI | | |
| COUNTY (NAME/CODE) | CASE CLSD | PREV ACT | UNION | CLASS | EMPCNTRL | | | | | |
| | RELTD ACT | | | | | | | | | |
| STANDARD | CITATION | RE | ISSUANCE | ABATE | CMP | INITIAL | CURRENT | INITIAL | CURRENT | C SETTLM-T HAZD |
| | TYP IDENT | VC | DATE | DATE | CDE | PENALTY | PENALTY | F-T-A | F-T-A | N DISPOS-N SUBS |
| | | | | | | | | PENALTY | PENALTY | T /FINORDT CODE |

 BOB PULLEN MOVERS 0627700 109063958 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 14495675 DATE: 6-11-94 KEYWDS: DESCRIP: CRUSHED
 ABSTRACT: EMPLOYEE CRUSHED BY AN EIGHT FOOT 1"X16"X12" STEEL I-BEAM (BOLSTER) WITH A FIFTH WHEEL ATTACHMENT WELDED TO THE BOLSTER FOR HOOKING TO A TRUCK. HOUSE BEING MOVED WAS APPROXIMATELY 60 TO 70 FEET LONG. A HOUSE HAD BEEN MADE READY FOR MOVING. WORK HAD CEASED FOR THE NIGHT AND WHEN THE CREW RETURNED THEY SECURED THE DOLLY, LOCATED NEAR THE REAR OF THE HOUSE TO THE SUPPORTING I-BEAMS. EMPLOYEES WERE MOVING TO THE FRONT, WHERE THE BOLSTER WAS RESTING ON THE BEAMS, TO SECURE THE BOLSTER. THE TRUCK HAD BEEN BACKED UP TO THE BOLSTER AND A WENCH LINE HOOKED TO THE BOLSTER, THE TRUCK WAS PARKED ON A SLIGHT INCLINE, RAKES NOT SET, NOT IN GEAR, ENGINE OFF AND DRIVER NOT IN TRUCK AND WAS WORKING AT THE BACK OF HOUSE WITH CREW. DRIVER RUSHED TO STOP THE TRUCK AND TWO EMPLOYEES ATTEMPTED TO HOLD THE BOLSTER ON THE BEAMS BUT THE FORWARD MOVEMENT OF THE TRUCK PULLED THE BOLSTER INTO THE TWO.

VICTIM: 001 AGE: 16 SEX: M OCCUP: Not reported
 DISPOSITION: FATALITY EVENT-TYPE: CAUGHT IN OR BETWEEN

56

PARAGON J ZEIGLER STREET 1/31/94 UN-FATCAT SAFETY 10 6.0
 Harmony PA 16037 2/07/94 PARTIAL PRIV SAC 10
 Butler 019 2/28/94 (NONE) NONUNION 10 (PENALTIES PAID)
 A360845226

OPT-INFO: N-01 108753393
 N-98 X

A-03 RC9

| SA.001 | S 01001A 10 | 2/11/94 | 2/17/94 X | 1500 | 250 | 0 | 0 | INFORMAL |
|--------------|-----------------|---------|-----------|------|------|---|---|----------|
| 1926.021 B02 | S 01001B 10 | 2/11/94 | 2/17/94 X | 0 | 0 | 0 | 0 | |
| 1926.500 B08 | S 01002 10 | 2/11/94 | 2/17/94 X | 2500 | 750 | 0 | 0 | INFORMAL |
| | TOTAL PENALTIES | | | 4000 | 1000 | 0 | 0 | |

QY50638 (BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1994

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
 FROM JANUARY 1990 THROUGH DECEMBER 1994

PAGE: 6332

| ESTABLISHMENT INSPECTED ADDRESS CITY COUNTY (NAME/CODE) | STATE ZIP | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | \$REMITTED | EMPESTAB | EMPINSP | LWDI | EMPCNTRL | |
|--|-----------|-----------|-----------|----------|-----------|--------|------------|----------|---------|---------|----------|---|
| STANDARD | CITATION | GR | RE | ISSUANCE | ABATE | ABT | CMP | INITIAL | CURRENT | INITIAL | CURRENT | C SETTLM-T HAZD N DISPOS-N SUBS T /FINORDT CODE |
| | TYP | IDENT | VC | DATE | DATE | CDE | PENALTY | PENALTY | PENALTY | PENALTY | | |

 TERRY HOHMAN PAINTING COMPANY 0317500 108746819 *** CONTINUED ***

**** ACCIDENT DATA ****

SUMMARY # 14322366 DATE: 1-30-94 KEYWDS: DESCRIP: STRUCK BY AERIAL LIFT
 ABSTRACT: EMPLOYEE WAS WORKING AS A "FLOOR MAN" ADJACENT TO A ELEVATED ARIAL PLATFORM. THE PLATFORM WHEEL ENTERED A FLOOR HOLE AND THE ARIAL PLAT- FORM TOPPLED. HITTING THE EMPLOYER. BLUNT FORCE TRAUMA TO CHEST AND ABDOMEN. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 AGE: 17 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : STRUCK BY
 INJ NATURE : OTHER ENVIR FACTOR: OVERHEAD MOVING/FALLING OBJ AC
 INJ SOURCE : MOTOR VEHICLE (INDUS) HUMAN FACTOR: MATER-HANDLG PROCED. INAPPROPR
 PART-OF-BODY: BODYSYSTEM HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

57

| | | | | | |
|-------------------------------|----------|-----------|----------|----------|------|
| DMG EQUIPMENT COMPANY INC | 0626600 | 123558504 | D8136-C | 1622 | 16.0 |
| FM 1485 1/2 MILE SOUTH OF HWY | 8/02/94 | UN-FATCAT | SAFETY | 0 | 190 |
| Conroe TX 77305 | 8/05/94 | 632 | PARTIAL | PRIV SEC | 19 |
| Montgomery 339 | 10/04/94 | (NONE) | NONUNION | | 190 |

A360901086

| | | | | | | | | | | | |
|----------|-----|---|-------|----|---------|---------|---|---|---|---|---|
| 1926.059 | E04 | 0 | 01001 | 01 | 8/23/94 | 8/29/94 | X | 0 | 0 | 0 | 0 |
|----------|-----|---|-------|----|---------|---------|---|---|---|---|---|

**** ACCIDENT DATA ****

SUMMARY # 14409262 DATE: 8-01-94 KEYWDS: DESCRIP: STRUCK BY
 ABSTRACT: FLAGMAN MISJUDGED TRUN RADIUS OF TRACTOR TRAILER TRUCK. FLAGMAN THOUGHT TURNING TRUCK HAD FINISHED TURN. FLAGMAN TURNED TO LOOK AT A SECON^D TRUCK WHEN REAR TIRES OF FIRST CAUGHT HIM AND ROLLED OVER HIM. ---(ABSTRACT NOT REVIEWED)

| | | | |
|----------------------------------|--|--------|---------------------|
| VICTIM: 001 | AGE: 17 | SEX: M | OCCUP: Not reported |
| DISPOSITION : FATALITY | EVENT-TYPE : STRUCK BY | | |
| INJ NATURE : FRACTURE | ENVIR FACTOR: MATERIALS HANDLG EQUIP./METHOD | | |
| INJ SOURCE : MOTOR VEHICLE (HWY) | HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION | | |
| PART-OF-BODY: BODYSYSTEM | HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED | | |

58

PAUL WILLIAMS'S CONCRETE COMPANY 0625400 123585622 ES239-C 1/1/1
 2425 CROM CIRCLE 12/22/94 UN-FATCAT SAFETY 4
 Austin TX 78741 12/28/94 159 COMPREH PRIV 4
 Travis 453 (OPEN) (NONE) NONUNION 10

OPT-INFO: N-01 123588923
 N-98 X

N-20 CONTEST 2/14

| Case No | Activity | Start Date | End Date | Penalty | Contest | Other | Y/N |
|-----------------|-------------|------------|-----------|---------|---------|-------|-----|
| 1926.020 B01 | S 01001A 10 | 1/19/95 | 1/24/95 X | 1500 | 1500 | 0 | 0 Y |
| 1926.021 B02 | S 01001B 10 | 1/19/95 | 1/24/95 X | 0 | 0 | 0 | 0 Y |
| 1926.100 A | S 01002 10 | 1/19/95 | 1/24/95 X | 1500 | 1500 | 0 | 0 Y |
| 1926.600 A03 | S 01003 10 | 1/19/95 | 1/24/95 X | 1500 | 1500 | 0 | 0 Y |
| 1903.002 A01 | O 02001 00 | 1/19/95 | 1/24/95 X | 200 | 200 | 0 | 0 Y |
| 1926.051 C02 | O 02002 | 1/19/95 | 1/24/95 X | 0 | 0 | 0 | 0 Y |
| TOTAL PENALTIES | | | | 4700 | 4700 | 0 | 0 |

QY50638 (BHB) 95/06/28 ISTAPE, OFFICE OF MANAGEMENT DATA SYSTEMS

CALENDAR 1994

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
 FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
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PAGE: 6482

| ESTABLISHMENT INSPECTED ADDRESS CITY STATE ZIP COUNTY (NAME/CODE) | REPORT ID | ACTIVITY# | CSHO | SIC1/SIC2 | SUMHRS | EMPESTAB | LWDI | GR | ABT | INITIAL | CURRENT | C SETTLM-T HAZD |
|---|-----------|-----------|----------|------------|----------|-----------|---------|----------|-------|----------|---------|-----------------|
| | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED | EMPESTAB | OWNERSHIP | EMPINSP | CITATION | RE | ISSUANCE | ABATE | DISPOS-N |
| | CLOSECONF | OPT REPT# | SCOPE | CLASS | EMPCNTRL | | | TYP | IDENT | DATE | DATE | T /FINORDT |
| | CASE CLSD | PREV ACT | UNION | | | | | VC | VC | | | CODE |
| | RELTD | ACT | | | | | | | | | | |

 PAUL WILLIAMS CONCRETE COMPANY 0625400 123585622 *** CONTINUED ***
 **** ACCIDENT DATA ****

SUMMARY # 773929 DATE:12-22-94 KEYWDS: DESCRIP:CRUSHED BY BOBCAT FRONT LOADER
 ABSTRACT: EMPLOYER WAS INSTRUCTED TO REMOVE RE-BAR, CONNECTED TO CONCRETE DEBRIS, FROM BETWEEN THE SCOOP OF FRONT LOADER AND THE BODY WHEN THE REBAR, BEING PULLED CAME IN CONTACT WITH THE SCOOP RETRACTING PEDAL AND CRUSHED THE EMPLOYEE BETWEEN SCOOP AND BODY OF THE VEHICLE. --- (ABSTRACT NOT REVIEWED)

VICTIM: 001 RN AGE: 17 SEX: M OCCUP: Not reported
 DISPOSITION : FATALITY EVENT-TYPE : CAUGHT IN OR BETWEEN
 INJ NATURE : FRACTURE ENVIR FACTOR: SQUEEZE POINT ACTION
 INJ SOURCE : MATERIALS HANDLG EQ. HUMAN FACTOR: MALFUNC IN SECURING/WARNING OP
 PART-OF-BODY: CHEST HAZ SUBSTANCE: NO SUBSTANCE IMPLICATED

59

Y F. SCEPUREK 1050210-S 105872360 0000-C 1629 66.5
MILE HYER ROAD 8/10/95 UN-FATCAT SAFETY 750
11a AK 99687 8/11/95 000000000 PARTIAL PRIV SEC
Muska-Susitna 170 12/06/96 A360102289 NONUNION SPG-MFG
#360102289

N-98 X

1.705 J01 A S 01001 10A 9/19/95 11/03/95 X 1500 /50 0 0 INFORMAL

06/19/2000 QY00136(BHB) ISTATE, OFFICE OF MANAGEMENT DATA SYSTEMS PUBLIC REPORT
FEDAR 1995 OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION PAGE: 3
FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
FROM JANUARY 1995 THROUGH DECEMBER 1998

| ESTABLISHMENT INSPECTED | REPORT ID | ACTIVITY# | SIC1/SIC2 | SUMHRS |
|-------------------------|-----------|-----------|-----------|-----------------|
| ADDRESS | OPEN DATE | INSP TYPE | CATEGORY | \$REMITTED |
| CITY (NAME/CODE) | STATE | ZIP | CLOSECONF | OPT REPT# |
| | | | SCOPE | OWNERSHIP |
| | | | CASE CLSD | PREV ACT |
| | | | UNION | CLASS |
| | | | RELTD ACT | |
| | | | GR | |
| | CITATION | RE | ISSUANCE | ABATE |
| | TYP | IDENT | VC | DATE |
| | | | | DATE |
| | | | | CDE |
| | | | | DOLLARS |
| | | | | ' /FINORD# CODE |

Y F. SCEPUREK 1050210-S 105872360 *** CONTINUED ***

SUMMARY# 171050966 DATE: 8/10/95 ***** ACCIDENT DATA *****
DESCRIP: ELECTRIC SHOCK - CONTACT WITH OVERHEAD LINE THRU LOAD LINE

KEYWDS: ELECTRICAL/ELECTROCUTED/ELECTRIC SHOCK/OVERHEAD POWER LINE /CRANE/LOAD LINE/
E GI IA

ABSTRACT: An employee was hired by a crane owner to salvage items from a junkyard. For no apparent reason, he was adjusting the outrigger on the 1962 P&H 60-ton mobile truck crane on the side opposite from the crane operator and his attendant, who were preparing to lift a 1.5-ton boiler. The uninspected crane, which had had recent repairs to its controls, was running poorly and vibrating. In response to this problem, the crane operator left the cab to attend to the engine. The boom was in a nearly vertical position (80 degrees to the ground) about 9.1 meters from a 7200-volt overhead power line that had not been noticed by any of the employees. As the operator emerged from the cab, the boom lowered and swung, and the wire ropes for the main block contacted the power line. The attendant sustained a minor electric shock. The employee at the outrigger, who had his legs wrapped around it, was electrocuted. Entry and exit wounds were found on his legs and his skull. --- (ABSTRACT WAS REVIEWED)

VICTIM: 001 AGE: 16 SEX: M OCCUP: Helpers, construction trades
DISPOSITION : FATALITY EVENT-TYPE : CARD-VASC/RESP FAIL.
INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: MATERIALS HANDLG EQUIP./METHOD
INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
PART-OF-BODY: MULTIPLE HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

VICTIM: 002 AGE: 15 SEX: M OCCUP: Helpers, construction trades
DISPOSITION : NONHOSPITALIZED INJURY EVENT-TYPE : SHOCK
INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: MATERIALS HANDLG EQUIP./METHOD
INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: MISJUDGMENT, HAZ. SITUATION
PART-OF-BODY: LEGS HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED

60

Inspection: 110098811 - Cogburn Brothers Electric, Inc.

| Inspection Information - Office: Jacksonville | |
|--|--|
| Nr: 110098811 Report ID: 0419700 Open: 07/21/1995 CSHO: W6598/C | |
| Cogburn Brothers Electric, Inc. 12200 N. Main Street Jacksonville , FL 32218 SIC: 1731/Electrical Work Mailing: P.O. Box 26368 , Jacksonville , FL 32226 | Nr Employees: 8 Nr Controlled: 50 Union Status: Union |
| Inspection Type: Accident Scope: Partial Ownership: Private Safety/Health: Safety Opt Report Nr: 684 | Employees Covered: 4 Advance Notice: N Hours Spent: 81.0 Close Conference: 08/31/1995 Close Case: 01/01/1996 |
| Optional Information: Type, ID, Value N 12 591742857 N 20 VIDEO | |
| Related Activity: Type ID Date Safety/Health Accident 361117757 07/20/1995 | |

| | Violation Summary | | | | | Total |
|----------------|-------------------|---------|--------|-------|---------|---------|
| | Serious | Willful | Repeat | Other | Unclass | |
| Nr Violations | 2 | | | | | 2 |
| Penalty Amount | 5000.00 | | | | | 5000.00 |
| FTA Amount | | | | | | |

| Violation Items | | | | | | | | | |
|-----------------|---------|-----------------|------------|------------|---------|---------|-------|---------|-----------|
| ID | Type | Standard | Issuance | Abate | Curr\$ | Init\$ | Fta\$ | Contest | LastEvent |
| 1 01001A | Serious | 19260416 A01 | 12/18/1995 | 12/21/1995 | 2500.00 | 2500.00 | 0.00 | | - |
| 2 01001B | Serious | 19260417 D02 II | 12/18/1995 | 12/21/1995 | 0.00 | 0.00 | 0.00 | | - |
| 3 01002 | Serious | 19260501 B01 | 12/18/1995 | 12/21/1995 | 2500.00 | 2500.00 | 0.00 | | - |

| Accident Investigation Summary |
|---|
| Summary Nr: 170670756 Event: 07/20/1995 Electrocution |
| Two employees were finishing up their work at the end of the day. employee number one was a helper and employee number two was an electrician. throughout the day these employees had been moving wires for a controller in a plant. the helper who was 17 years old installed conduit for the wire and general housekeeping work, but did not work on high voltage wires. most of the wires that these employees worked on were 12 volt with the exception of a wire which was initially connected to a 120 volt stop/start switch to turn a motor on and off for a pump. this wire had been disconnected, taped and placed with the other 12 volt wires for moving. the power to the 120 volt wire had been de-energized. the helper climbed onto the top of a 15 foot high tank without any fall protection and pulled the 120 volt wire through some conduit as he was finishing up. employee |

| Accident Investigation Summary | |
|---|--|
| Summary Nr: 014373930 Event: 07/24/1995 Employee Killed in 11 Ft Fall From Roof | |
| A crew of five carpenters, including Employee #1, had constructed the wood framework of a 2,400 sq ft storage building. The first story had 24 ft long trusses set at 10 ft centers and had a pitch of 3:12. The peak of the trusses was 11 ft and the ground to eave height was 8 ft. There were 2 by 4 in. purlins nailed to the trusses on 2 ft centers. While installing the first section of 3 ft by 12 ft long metal roof sheeting, Employee #1 fell 11 ft from a 2 by 4 in. purlin to the interior of the building, landing on the concrete floor. He was killed. Employee #1 was not using fall protection. | |
| Review: E Keywords: fall,construction,fall protection,roof,installing,carpenter | |
| Inspection Age Sex Degree Nature Occupation | |
| 1 106549140 17 M Fatality Fracture | |
| * Note that more than one inspection number is shown when multiple inspections are performed during the investigation. Additional inspections will be indicated as a link. | |

| Payment and Administrative Actions | | | | | |
|------------------------------------|---------|------------|---------|------------|---------|
| Empr Phone: 618-995-2062 | | | | | |
| Payments -- 450:00/ 0.00 | | | | | |
| 163 Nr | Type | Date | Penalty | FTA Origin | Balance |
| 1022812 | Payment | 10/11/1995 | 450.00 | | B |

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Establishment Search Inspection Detail -- OSHA View

Definitions

Inspection: 122498280 - Concepcion Pelayo Roofing

| Inspection Information - Office: Chicago North | | | |
|---|--|------------------------------|--|
| Nr: 122498280 Report ID: 0524200 Open: 04/25/1995 CSHO: D2651/C | | | |
| Concepcion Pelayo Roofing 3655 West Mclean Chicago , IL 60647 | | Union Status: NonUnion | |
| SIC: 1761/Roofing, Siding, & Sheet Metal Work Mailing: 1929 North Lawndale, Chicago , IL 60647 | | | |
| Inspection Type: Accident | | | |
| Scope: No Insp | | Advance Notice: N | |
| Ownership: Private | | Hours Spent: 11.5 | |
| Safety/Health: Safety | | Close Conference: 04/25/1995 | |
| Emphasis: L:Fall | | Close Case: 04/25/1995 | |
| Opt Report Nr: 339 | | | |
| Optional Information: Type ID Value | | | |
| N 06 000009 | | | |
| Related Activity: Type ID Date Safety Health | | | |
| Accident 360708895 04/21/1995 | | | |

| Accident Investigation Summary | |
|---|----------------------------------|
| Summary Nr: 000849216 Event: 04/21/1995 Employee Dies When Struck By Falling Board | |
| At approximately 12:15 p.m. on April 21, 1995, Employee #1 was working on the ground when by 4 wooden board fell from the roof, striking him on top of his head. Employee #1 died of a fractured skull. | |
| Review:-E Keywords: construction, struck by, falling object, board, head, skull, fracture, work rules, hard hat | |
| Inspection | Age Sex Degree Nature Occupation |
| 1 | 122498280 15 M Fatality Fracture |
| * Note that more than one inspection number is shown when multiple inspections are performed during the investigation. Additional inspections will be indicated as a link. | |

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Establishment Search Inspection Detail -- OSHA View

Definitions

Inspection: 109880641 - Lapp Family

| Inspection Information - Office: Avenel | | | |
|---|----|------------------------------|---------------|
| Nr: 109880641 Report ID: 0213400 Open: 07/25/1995 CSHO: S8038/C | | | |
| Lapp Family 267 Willow Rd. Hillsborough , NJ 08502 Union Status: NonUnion SIC: 1795/Wrecking and Demolition Work Mailing: 391 Spring Hill Rd., Quarryville , PA 17603 | | | |
| Inspection Type: Accident | | Advance Notice: N | |
| Scope: No Insp/Exempt Voluntary | | Hours Spent: 15.0 | |
| Ownership: Private | | Close Conference: 07/30/1995 | |
| Safety/Health: Safety | | Close Case: 07/30/1995 | |
| Planning Guide: Safety-Construction | | Opt Report Nr: 288 | |
| Related Activity: Type | ID | Date | Safety Health |
| Accident 361993157 07/25/1995 | | | |

| Accident Investigation Summary | | | | | | | | | | | | |
|--|------------|-----|----------|----------|--------------|------------|-------------|----|---|----------|----------|--------------|
| Summary Nr: 170401145 Event: 07/25/1995 Employee Killed in Fall While Dismantling Silo | | | | | | | | | | | | |
| A crew was dismantling a 60 ft silo. Employee #1, a 17-year-old, climbed a ladder in a chute attached to the side of the silo. The chute was made of 2 1/2 ft sections stacked one on top of the other. The bottom section was held in place with four bolts. The rest were held by only two bolts, one on each side of the top. Employee #1 took out four bolts, not realizing he had released the top two sections. He started to lower the top section with a rope while leaning on the next section. This section let go and he fell 55 ft to the ground. He was killed. | | | | | | | | | | | | |
| Review: E Keywords: dismantling,fall protection,silo,fall,bolt,work rules | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Inspection</th> <th>Age</th> <th>Sex</th> <th>Degree</th> <th>Nature</th> <th>Occupation</th> </tr> </thead> <tbody> <tr> <td>1 109880641</td> <td>17</td> <td>M</td> <td>Fatality</td> <td>Fracture</td> <td>Farm Workers</td> </tr> </tbody> </table> | Inspection | Age | Sex | Degree | Nature | Occupation | 1 109880641 | 17 | M | Fatality | Fracture | Farm Workers |
| Inspection | Age | Sex | Degree | Nature | Occupation | | | | | | | |
| 1 109880641 | 17 | M | Fatality | Fracture | Farm Workers | | | | | | | |
| * Note that more than one inspection number is shown when multiple inspections are performed during the investigation. Additional inspections will be indicated as a link. | | | | | | | | | | | | |

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Establishment Search Inspection Detail -- OSHA View

Definitions

Inspection: 126764877 - Aztec Construction

| Inspection Information - Office: Utah | |
|--|---|
| Nr: 126764877 Report ID: 0854910 Open: 11/13/1996 CSHO: H4844/C | |
| Aztec Construction 3550 South Aurora , UT 84620 SIC: 1771/Concrete Work Mailing: 5075 West 4700 South, Kearns , UT 84118 | Nr Employees: 7 Nr Controlled: 7 Union Status: NonUnion |
| Inspection Type: Accident Scope: Complete Ownership: Private Safety/Health: Safety Planning Guide: Safety-Construction | Employees Covered: 7 Advance Notice: N Hours Spent: 103.0 Close Conference: 12/18/1996 Close Case: 12/18/1996 |
| Related Activity: Type | ID Date Safety Health |
| | Accident 361535438 11/12/1996 |

| Accident Investigation Summary | | | | | | | | | | | | | |
|--|------------|-----|----------|--------|-----------------------|------------|-------------|----|---|----------|-------|-----------------------|--|
| Summary Nr: 171054687 Event: 11/12/1996 Concrete and Forms Fell Over Onto Victim | | | | | | | | | | | | | |
| <p>Company was building the second of four concrete storage pits, that measured 98 feet square, 8 feet high, and 8 inches thick. The Symon, and Simpson forms were in place. They had just finished pouring the north wall, and noticed that it was bowing out. Another employee standing on top of the wall told the victim to adjust a brace to try and straighten the now poured wall. The victim climbed down the four foot embankment and attempted to adjust the brace. At that point, the newly poured wall and forms fell over onto the victim, trapping him from the chest down. The other employees attempted to lift the forms off of the victim by using the concrete pumper boom, by attaching a chain to the boom and the forms. After two attempts, they were successful. He later expired at the hospital.</p> | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Inspection</th> <th>Age</th> <th>Sex</th> <th>Degree</th> <th>Nature</th> <th>Occupation</th> </tr> </thead> <tbody> <tr> <td>1 126764877</td> <td>17</td> <td>M</td> <td>Fatality</td> <td>Other</td> <td>Construction Laborers</td> </tr> </tbody> </table> | Inspection | Age | Sex | Degree | Nature | Occupation | 1 126764877 | 17 | M | Fatality | Other | Construction Laborers | |
| Inspection | Age | Sex | Degree | Nature | Occupation | | | | | | | | |
| 1 126764877 | 17 | M | Fatality | Other | Construction Laborers | | | | | | | | |
| <p>* Note that more than one inspection number is shown when multiple inspections are performed during the investigation. Additional inspections will be indicated as a link.</p> | | | | | | | | | | | | | |

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| ID | Type | Standard | Issuance | Abate | Curr\$ | Init\$ | Fta\$ | Contest | LastEvent |
|----|------------------------|----------|--------------|-----------------------|--------|--------|-------|---------|-------------------------|
| 1 | 01001A | Serious | 1550052502 A | 03/12/1997 02/14/1997 | 400.00 | 400.00 | 0.00 | | - |
| 2 | 01001B | Serious | 1550052502 B | 03/12/1997 02/14/1997 | 0.00 | 0.00 | 0.00 | | - |
| 3 | 01001C | Serious | 1550052502 E | 03/12/1997 02/14/1997 | 0.00 | 0.00 | 0.00 | | - |
| 4 | 01001D | Serious | 1550052503 G | 03/12/1997 02/14/1997 | 0.00 | 0.00 | 0.00 | | - |
| 5 | 02001 | Other | 0242400504 | 03/12/1997 02/14/1997 | 0.00 | 0.00 | 0.00 | | - |
| 6 | 02002 | Other | 0242942905 C | 03/12/1997 02/14/1997 | 0.00 | 0.00 | 0.00 | | - |
| 7 | 02003 | Other | 1550011006 E | 03/12/1997 03/25/1997 | 0.00 | 0.00 | 0.00 | | - |
| 8 | 02004 | Other | 1550011002 | 03/12/1997 05/16/1997 | 0.00 | 0.00 | 0.00 | | P-Petition to Mod Abate |
| 9 | 02005 | Other | 1550012001 A | 03/12/1997 05/14/1997 | 0.00 | 0.00 | 0.00 | | - |

| Accident Investigation Summary | |
|---|---|
| Summary Nr: 170243596 | Event: 12/07/1996 Employee Killed When Struck By Rolling Pipe |
| <p>At 9:00 a.m. on December 7, 1996, Employee #1, age 17, was attaching slings to 60 ft sections of metal pipe to be unloaded by a crane from a flatbed delivery truck. The crane boom suddenly slipped and struck a pipe on the truck, which began to roll and knocked Employee #1 off the truck. The pipe continued to roll off the truck, crushing Employee #1. He was killed. This operation was being conducted in heavy rain.</p> | |
| <p>Review: E Keywords: off loading, pipe, crushed, unstable position, storm, falling object, slip, fall, work rules</p> | |
| Inspection | Age Sex Degree Nature Occupation |
| 1 | 115273849 17 M Fatality Other |
| <p>* Note that more than one inspection number is shown when multiple inspections are performed during the investigation. Additional inspections will be indicated as a link.</p> | |

| Payment and Administrative Actions | | | | |
|------------------------------------|---------|------------|---------|--------------------|
| Payments -- 400.00/ 0.00 | | | | |
| 163 Nr | Type | Date | Penalty | FTA Origin Balance |
| 919126615 | Payment | 03/24/1997 | 400.00 | |

OSHAOccupational Safety & Health Administration
U.S. Department of Labor**Establishment Search Inspection Detail -- OSHA View**Definitions**Inspection: 122120736 - Mceachern Contracting Inc.**

| Inspection Information - Office: North Boston | |
|---|--|
| Nr: 122120736 Report ID: 0134000 Open: 08/04/1997 CSHO: B1385/C | |
| Mceachern Contracting Inc. 115 Mill Street Belmont, MA 02178 SIC: 1794/Excavation Work Mailing: 13 Greenfield Lane Scituate, MA 02066 | Nr Employees: 2 Nr Controlled: 2 Union Status: NonUnion |
| Inspection Type: Referral Scope: Complete Ownership: Private Safety/Health: Safety Planning Guide: Safety-Construction Opt Report Nr: 719/97 | Employees Covered: 2 Advance Notice: N Hours Spent: 24.0 Close Conference: 09/11/1997 Close Case: 09/11/1997 |
| Related Activity: Type | ID Date Safety Health |
| | Referral 901875609 08/04/1997 Yes |
| | Accident 360941595 08/04/1997 |

Accident Investigation Summary

| Summary Nr: 000655779 Event: 08/04/1997 Employee Killed When Trench Wall Collapses | | | | | | | | | | | | |
|---|------------|-----|----------|----------|-----------------------|------------|--------------------|----|---|----------|----------|-----------------------|
| Employee #1, 17 years old, was working in an unprotected 12 ft deep trench when the side wall collapsed. His head was fractured and he was killed. | | | | | | | | | | | | |
| Review: E Keywords: construction,trench,cave-in,sloping,shoring,work rules,head,fracture | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Inspection</th> <th>Age</th> <th>Sex</th> <th>Degree</th> <th>Nature</th> <th>Occupation</th> </tr> </thead> <tbody> <tr> <td><u>1</u> 122120736</td> <td>17</td> <td>M</td> <td>Fatality</td> <td>Fracture</td> <td>Construction Laborers</td> </tr> </tbody> </table> | Inspection | Age | Sex | Degree | Nature | Occupation | <u>1</u> 122120736 | 17 | M | Fatality | Fracture | Construction Laborers |
| Inspection | Age | Sex | Degree | Nature | Occupation | | | | | | | |
| <u>1</u> 122120736 | 17 | M | Fatality | Fracture | Construction Laborers | | | | | | | |
| * Note that more than one inspection number is shown when multiple inspections are performed during the investigation. Additional inspections will be indicated as a link. | | | | | | | | | | | | |

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RPQI
1CALENDAR 1997

06/19/2000 QY00136(BHB) ISTATE, OFFICE OF MANAGEMENT DATA SYSTEMS
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
FATALITY INVESTIGATIONS, NATIONWIDE, BY YEAR, STATE, SIC
FROM JANUARY 1995 THROUGH DECEMBER 1998

PUBLIC REPORT
PAGE: 2207

ESTABLISHMENT INSPECTED REPORT ID ACTIVITY# SIC1/SIC2 SUMHRS
ADDRESS OPEN DATE INSP TYPE CATEGORY \$REMITTED
CITY STATE ZIP CLOSECONF OPT REPT# SCOPE OWNERSHIP
COUNTY (NAME/CODE) CASE CLSD PREV ACT UNION CLASS

| STANDARD | CITATION | RE | ISSUANCE | ABATE | CMP | INITIAL | CURRENT | INITIAL | CURRENT | C | SETTLM-T | HAZD |
|------------------------|-----------|------------|---------------|-----------|-----|---------|---------|---------|---------|---|----------|----------|
| TYP | IDENT | VC | DATE | DATE | CDE | DOLLARS | DOLLARS | F-T-A | F-T-A | N | DISPOS-N | SUBS |
| | | | | | | | | DOLLARS | DOLLARS | T | /FINORDT | CODE |
| BONTRAGER CONSTRUCTION | 0552651-S | 127258937 | 0000-C | 1751 | | | | | | | | |
| 3839 48TH AVE. | 3/28/97 | UN-FATCAT | SAFETY | 800 | | | | | | | | |
| Hudsonville MI 49426 | 4/08/97 | 000000000 | COMPREH | PRIV SEC | | | | | | | | |
| Ottawa 139 | 7/11/97 | (NONE) | NONUNION | SPG-CONST | | | | | | | | |
| | | A101400240 | | | | | | | | | | |
| N-01 127258937 | | | | | | S-01 | | | | | | |
| S-03 | | | | | | S-07 | | | | | | |
| 4084112408 | S 01001 | 10 | 5/08/97 | 5/13/97 | X | 500 | 250 | 0 | 0 | | | INFORMAL |
| 4084111201 | S 01002 | 05 | 5/08/97 | 5/13/97 | X | 350 | 175 | 0 | 0 | | | INFORMAL |
| 4084121301 | S 01003 | 01 | 5/08/97 | 5/13/97 | X | 150 | 75 | 0 | 0 | | | INFORMAL |
| 1926.501 B11 | S 01004 | 01 | 5/08/97 | 5/13/97 | X | 150 | 75 | 0 | 0 | | | INFORMAL |
| 4084.62201 | S 01005 | 01 | 5/08/97 | 5/13/97 | X | 150 | 75 | 0 | 0 | | | INFORMAL |
| 40801011 A | S 01006 | 01 | 5/08/97 | 5/13/97 | X | 150 | 75 | 0 | 0 | | | INFORMAL |
| 4084.62401 | S 01007 | 01 | 5/08/97 | 5/13/97 | X | 150 | 75 | 0 | 0 | | | INFORMAL |
| 4084172511 | O 02001 | 01 | 5/08/97 | 5/13/97 | X | 0 | 0 | 0 | 0 | | | |
| 4084320701 | O 02002 | 01 | 5/08/97 | 5/13/97 | X | 0 | 0 | 0 | 0 | | | |
| 4084.11401 | O 02003 | 01 | 5/08/97 | 5/13/97 | X | 0 | 0 | 0 | 0 | | | |
| 1926.503 A01 | O 02004 | 01 | 5/08/97 | 5/13/97 | X | 0 | 0 | 0 | 0 | | | |
| 408417190103 | O 02005 | 01 | 5/08/97 | 5/13/97 | X | 0 | 0 | 0 | 0 | | | |
| | | | TOTAL DOLLARS | | | 1600 | 800 | 0 | 0 | | | |

| STANDARD | CITATION | RE | ISSUANCE | ABATE | CMP | INITIAL | CURRENT | INITIAL | CURRENT | C | SETTLM-T | HAZD |
|----------|----------|----|----------|-------|-----|---------|---------|---------|---------|---|----------|------|
| TYP | IDENT | VC | DATE | DATE | CDE | DOLLARS | DOLLARS | F-T-A | F-T-A | N | DISPOS-N | SUBS |
| | | | | | | | | DOLLARS | DOLLARS | T | /FINORDT | CODE |

GER CONSTRUCTION
VICTIM: 001 AGE: 17 SEX: M OCCUP: Construction laborers
DISPOSITION : FATALITY EVENT-TYPE : SHOCK
INJ NATURE : ELECTRIC SHOCK ENVIR FACTOR: WORK-SURFACE/FACIL-LAYOUT COND
INJ SOURCE : ELEC APPARAT/WIRING HUMAN FACTOR: POSITION INAPPROPRIATE FOR TASK
PART-OF-BODY: HAND(S) HAZ SUBSTNCE: NO SUBSTANCE IMPLICATED
VICTIM: 002 AGE: 27 SEX: M OCCUP: Construction laborers
DISPOSITION : HOSPITALIZED INJURY EVENT-TYPE : SHOCK

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abstract

| |
|--|
| Accident Investigation Summary |
| Summary Nr: 200600328 Event: 07/23/1998 Struck By Dump Truck |
| Flagman was backed over by a dump truck while he was taking to a motorest. |
| Inspection Age Sex Degree Nature Occupation |
| <u>1</u> 300438249 17 M Fatality Fracture |
| * Note that more than one inspection number is shown when multiple inspections are performed during the investigation. Additional inspections will be indicated as a link. |

| | | | | |
|---|---------|------------|---------|--------------------|
| Payment and Administrative Actions | | | | |
| Payments -- 2100.00/ 0.00 | | | | |
| 163 Nr | Type | Date | Penalty | FTA Origin Balance |
| 821052933 | Payment | 11/19/1998 | 2100.00 | B |

[[Comments & Info](#) | [OSHA Home Page](#) | [OSHA-OCIS](#) | [US DOL Web Site](#) | [Disclaimer](#)]

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| Accident Investigation Summary | |
|---|--|
| Summary Nr: 200920064 Event: 03/06/1998 Struck By | |
| <p>a 3-man crew was attempting to install the Jib portion of a 1998 USTC hydraulic crane, model: Taxi-King, 28 ton, mounted on a 1998 freight liner, model 112, truck bed. Employee #3 was the crane operator and worked for the owner of the crane and had pulled the rear pin and front pin, that hold the jib in place when not in use and while traveling down the highway and had gone into the cab of the crane. Employee #2 who is the owner of Springhope Construction, had just recently arrived on the job site and employee #1, the deceased, helper/laborer, who worked for Springhope had gone over to help insgtall the jib. Employee #3 said that when he got back in the cab of the crane, that employee #2 was standing on a foot ladder and attempting to install the bolts that attach the jib to the boom. Employee #1 was sgtanding on the ground next to the ladder. Employee #2 supposedly motioned to employee #3 to move the boom in order to align the holes in the frame of the jib with the hole in the frame of the boom. Employee #3 and #2 heard a loud noise and the jib just seem to jump off the truck and landed on employee #1. The jib struck employee #1 in the neck and shoulder area and was taken to the hospital and pronounced dead.</p> | |
| Inspection | Age Sex Degree Nature Occupation |
| 1 | 125445643 17 M Fatality Other Carpenters |
| <p>* Note that more than one inspection number is shown when multiple inspections are performed during the investigation. Additional inspections will be indicated as a link.</p> | |

| Payment and Administrative Actions | | | | | |
|------------------------------------|---------|------------|---------|------------|---------|
| Empr Phone: 540-788-1282 | | | | | |
| Payments -- 225.00/ 0.00 | | | | | |
| 163 Nr | Type | Date | Penalty | FTA Origin | Balance |
| 917010027 | Payment | 08/04/1998 | 225.00 | | |

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