NOES QUESTIONNAIRE ITEM NO. 52 Assessment of Economic Penalties in the Past Year as a Result of a Protective Device Use Policy

Intent

The intent of this question was to determine whether management-directed actions had been taken in the past year for failure to use protective devices properly which involved direct or indirect economic loss to the worker(s) concerned.

This item was displayed on the questionnaire as:

- 52. Have any economic penalties been assessed in the past 12 months?
 - 1 Yes
 - No, we know of no instances where violations of company policy have occurred within the last 12 months
 - 3 No, although we know that there was a minimum of one violation of company policy within the last 12 months

Notes

This question was asked only of those who responded that the management-directed measures in their facility for improper use of personal protective equipment included the use of economic penalties.

As in question 51, economic penalties must be assessed by plant management, excluding action from any other source, such as a labor union.

Analysis

Two analyses of the responses to question 52 are presented.

(1) Response 52.1 - Economic penalties assessed in the past twelve months

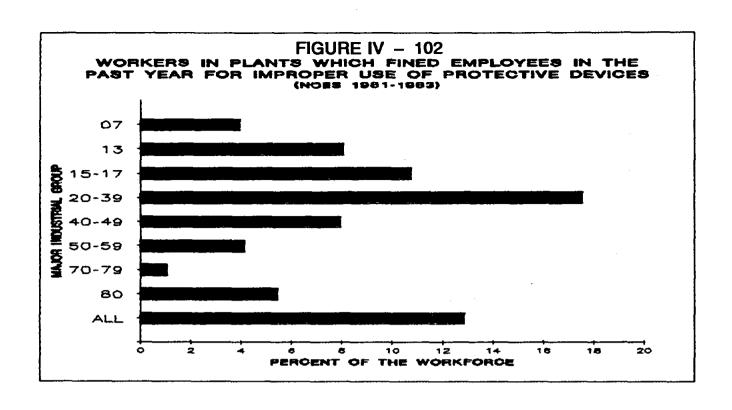
The estimated proportions of plants and workers in plants which imposed economic penalties (fines) on workers in the past year for failure to properly use protective devices are displayed in Figures IV-102, IV-103, IV-104, and IV-105.

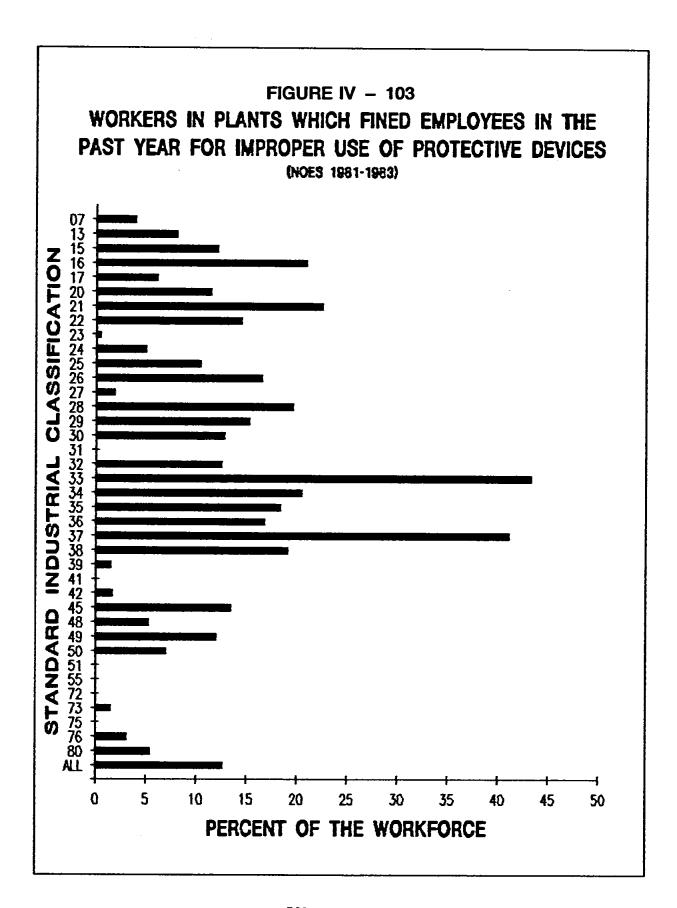
Figure IV-102	Workers in plants which fined employees in the past year for improper use of protective devices (by major industrial group)
Figure IV-103	Workers in plants which fined employees in the past year for improper use of protective devices (by 2-digit SIC)
Figure IV-104	Plants which fined workers in the past year for improper protective device use (by major industrial group)
Figure IV-105	Plants which fined workers in the past year for improper protective device use (by 2-digit SIC)

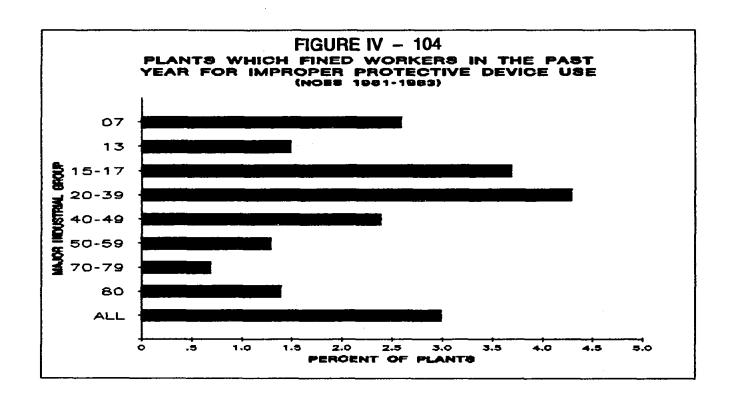
(2) Response 52.1, 52.2, or 52.3 - Categories of economic penalties imposed in the past twelve months

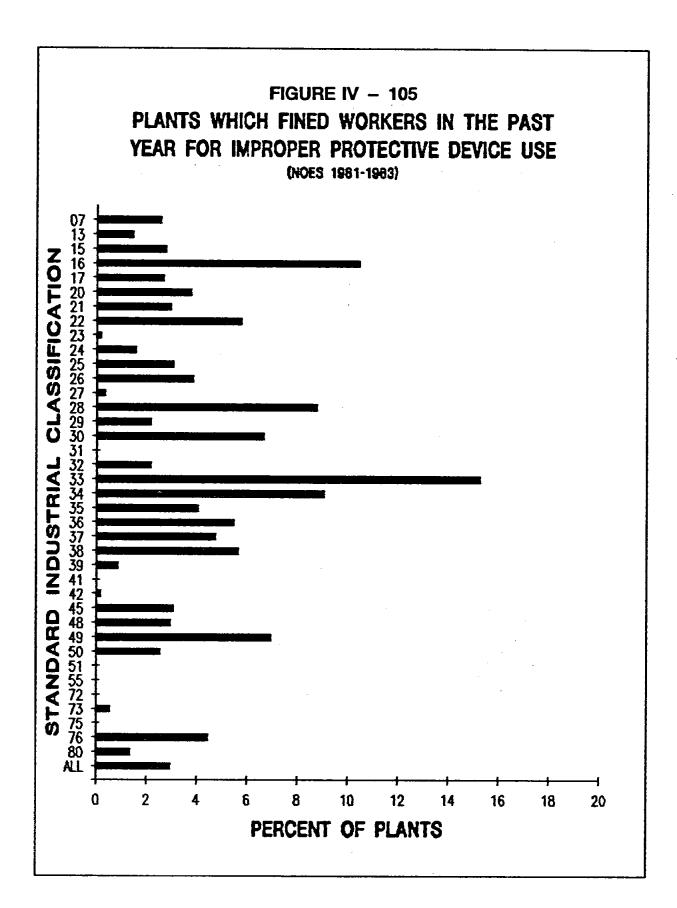
The estimates of the plants which have a policy of assessing economic penalties as part of their corrective measures for improper use of protective devices, by category of penalty assessment, and workers in those plants (by number and proportion of the total) are displayed in Figures IV-106 and IV-107, and Tables IV-69 and IV-70.

Figure IV-106	Proportion of workers in plants by category of economic penalty for failure to use protective devices properly
Figure IV-107	Proportion of plants by category of economic policy for
	failure to use protective devices properly
Table IV-69	Number and percent of plants and workers in plants by category of economic penalty for improper protective
	device use in the past year (by major industrial group)
Table IV-70	Number and percent of plants and workers in plants by category of economic penalty for improper protective
	device use in the past year (by 2-digit SIC)









NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. IV-69

NUMBER AND PERCENT OF PLANTS AND MORKERS IN PLANTS BY CATEGORY OF ECONOMIC PENALTY FOR IMPROPER PROTECTIVE DEVICE USE IN THE PAST YEAR

		PLANTS	•		WORKERS	
MAJOR GROUP	ASSESSED PENALTIES	NO VIOLATIONS	UNPENALIZED VIOLATIONS	ASSESSED PENALTIES	NO VIOLATIONS	UNPENALIZED VIOLATIONS
07	149* (147) 2.6%	1727* (689) 30.7%	•••	4456* (4395) 4.0%	44293* (15193) 40.0%	•••
13	143*	4695	916*	33518*	210370*	80751*
	(59)	(1109)	(388)	(10924)	(65717)	(29177)
	1.5%	48.6%	9.5%	8.1%	50.8%	19.5%
15-17	3699	33715	7579	332098*	1129095	322961
	(879)	(2331)	(1560)	(96637)	(100786)	(69397)
	3.7%	34.2%	7.7%	10.8%	36.8%	10.5%
20-39	8221	57683	15420	3388180	7067702	3059629
	(1046)	(2753)	(1638)	(298401)	(384528)	(298278)
	4.3%	30. <i>2</i> %	8.1%	17.6%	36.7%	15.9%
40-49	1445*	14040	4561	251909*	1092411	422853
	(584)	(2119)	(591)	(71575)	(189492)	(75864)
	2. 4 %	23.6%	7.7%	8.0%	34.6%	13.4%
50-59	824*	16044	2402*	65087*	501666	82343*
	(391)	(2940)	(833)	(25750)	(88928)	(25655)
	1.3%	26.3%	3.9%	4.2%	32.7%	5.4%
70–79	557 *	17464	2145*	24255*	644924	115534*
	(499)	(2581)	(1098)	(16707)	(103940)	(34752)
	.7%	23.0%	2.8%	1.1%	29.4%	5.3%
80	100*	3378	232*	199411*	2205092	318075*
	(42)	(437)	(85)	(80168)	(309678)	(112164)
	1.4%	47.8%	3.3%	5.5%	60.3%	8.7%
ALL	15136	148747	33254	4298914	12895552	4402146
	(1624)	(5892)	(2743)	(333186)	(559544)	(338879)
	3.0%	29.2%	6.5%	12.9%	38.6%	13.2%

^{*}Standard error >25% of the estimate. The estimate may be unreliable. ...No facilities observed.

NUMBER AND PERCENT OF PLANTS AND MORKERS IN PLANTS BY CATEGORY OF ECONOMIC PENALTY FOR IMPROPER PROTECTIVE DEVICE USE IN THE PAST YEAR

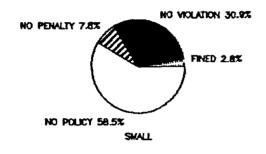
		PLANTS		•	MORKERS	
SIC CODE	ASSESSED PENALTIES	NO VIOLATIONS	AIOTATION2	ASSESSED PENALTIES	WO ZMOLTAJOLY	VIOLATIONS
07	149* (147) 2.6%	1727* (689) 30.7%	•••	4456* (4395) 4.0%	44293* (15193) 40.0%	•••
13	143*	4695	916*	33518±	210370*	80751*
	(59)	(1109)	(388)	(10924)	(65717)	(29177)
	1.5%	48.6%	9.5%	8.1%	50.8%	19.5%
15	744*	10141	2061*	109064*	340093	108366*
	(398)	(1179)	(567)	(69300)	(57042)	(29076)
	2.8%	38.8%	7.9%	12.2%	38.0%	12.1%
16	1312*	4508	2017*	124531 *	153181*	104519±
	(552)	(1044)	(630)	(39423)	(48115)	(46739)
	10.5%	36.0%	16.1%	21.0%	25.8%	17.6%
17	1643*	19066	3501*	98503*	635821	110077*
	(547)	(1945)	(1115)	(32662)	(68408)	(30044)
	2.7%	31.8%	5.8%	6.2%	40.2%	7.0%
20	\$80*	4753	1518*	178876 2	730781	268927*
	(238)	(626)	(490)	(66077)	(96402)	(75515)
	3.8%	31.3%	10.0%	11.5%	47.0%	17.3%
21	3*	43*	37*	25744*	56325*	5254*
	(4)	(34)	(45)	(28069)	(44772)	(9815)
	3.0%	39.5%	33.7%	22.6%	49.4%	4.6%
22	278*	1307*	349*	104081*	247992	108917*
	(97)	(339)	(137)	(41483)	(36650)	(62191)
	5. 8%	27.1%	7.25	14.6%	34.7%	15.3%
23	30±	1380*	194*	6724*	307107	60899*
	(30)	(378)	(55)	(6697)	(66321)	(32825)
	.2%	8.7%	1.25	.5%	24.7%	4.9%
24	192*	3521	597*	29690*	257688*	83736*
	(120)	(612)	(250)	(18580)	(66302)	(34997)
	1.6%	29.4%	5.0%	5.1%	44.5%	14.4%
25	163*	862	169*	54507*	218592*	18553*
	(116)	(180)	(158)	(25063)	(68799)	(16632)
	3.1%	16.1%	3.2%	10.5%	42.2%	3.6%
26	228*	1818	529*	103898*	243066*	101526*
	(161)	(333)	(184)	(62762)	(68101)	(38449)
	3.9%	30.8%	9.0%	16.6%	38. 8%	16.2%
27	87*	2205	290*	24261*	350567	49003*
	(44)	(356)	(132)	(19555)	(73656)	(23109)
	.4%	10.9%	3.4%	2.0%	29.6%	4.1%
28	679*	3130	687*	180836*	409637	155210*
	(215)	(419)	(206)	(73095)	(82729)	(54813)
	8.8%	40.6%	8.9%	19.7%	44.6%	16.9%
29	31*	157*	328*	34219*	55262*	72773*
	(31)	(96)	(203)	(54628)	(35434)	(35971)
	2. <i>2</i> %	11.2%	23.3%	15.4%	24.9%	32.8%
30	569*	3390	1323*	97115*	289849	222713*
	(415)	(741)	(401)	(29262)	(63885)	(68143)
	6.7%	40.0%	15.6%	12. 9%	38.5%	29.6%
31	•••	483* (211) 31.7%	80* (49) 5.3%	•••	78529* (21931) 44.6%	17838# (11187) 10.1%
32	218*	3614	1110*	72347*	302706	74244*
	(102)	(786)	(304)	(34844)	(51249)	(30529)
	2. 2 %	36.2%	11.1%	12. 6%	52.6%	12.9%
33	909*	2842	676*	464999	324810	223001*
	(269)	(623)	(236)	(56900)	(75768)	(68684)
	15.3%	47.9%	11. 4%	43.4%	30.3%	20.8%

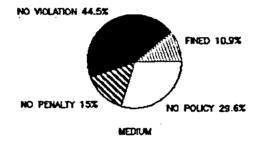
		PLANTS			WORKERS	
CODE	ASSESSED PENALTIES	NO VIOLATIONS	UNPENALIZED VIOLATIONS	ASSESSED PEMALTIES	NO VIOLATIONS	UNPENALIZED VIOLATIONS
34	1991*	9034	2352	309017*	589849	256645
	(676)	(806)	(484)	(86239)	(72515)	(45549)
	9.1%	41.1%	10.7%	20.6%	39.3%	17.1%
35	1107=	10254	2699	440769	790656	449478
	(342)	(1058)	(590)	(75406)	(71711)	(64409)
	4.1%	38.2%	10.1%	18.5%	33.2%	18.9%
36	580	3446	1343*	332519	710846	401531*
	(136)	(595)	(386)	(47644)	(114361)	(101016)
	5.5%	32.6%	12.7%	16.9%	36.2%	20.4%
37	271*	2143	566*	774468	593891	340404*
	(83)	(361)	(169)	(188089)	(104912)	(118093)
	4.8%	38.4%	10.1%	41. <i>2</i> %	31.6%	18.1%
38	233*	1415	303*	1457 <i>2</i> 5*	239778*	81398*
	(115)	(342)	(131)	(90194)	(64689)	(60617)
	5.7%	34.8%	7.5%	19. <i>2</i> %	31.6%	10.7%
39	71*	1887*	268*	8386*	269772*	67578*
	(71)	(898)	(298)	(15189)	(140354)	(69657)
	.9%	24.5%	3.5%	1.6%	51.4%	12. 9%
41	•••	756* (389) 15.3%			23864* (13056) 12.05	•••
42	35*	4531	1110*	14544*	243615	92234*
	(25)	(995)	(498)	(9398)	(46901)	(43002)
	.2%	21.0%	5.1%	1.8%	29.7%	11.2%
45	124*	972*	200*	61313*	164800*	54796*
	(119)	(447)	(129)	(49859)	(65785)	(34543)
	3.1%	24.4%	5.0%	13.6%	36.5%	12.1%
48	467*	1758*	1296*	36235*	126363*	73786*
	(309)	(771)	(820)	(23012)	(59190)	(39568)
	3.0%	11.2%	8.3%	5.4%	18.8%	11.0%
49	713*	4747±	1691*	102230*	454994*	192777*
	(437)	(1325)	(792)	(50376)	(146109)	(73614)
	7.0%	46.3%	16.5%	12.1%	54.1%	22.9%
50	824*	9515	1148*	65087*	331720	61577*
	(391)	(1787)	(490)	(25750)	(79590)	(28739)
	2.6%	29.6%	3.6%	7.1%	36.3%	6.7%
51	•••	3026* (1188) 32.4%	719* (727) 7.7%		94021* (46064) 44.3%	10170* (7986) 4.8%
55	•••	3503* (1314) 17.9%	535* (362) 2.7%	•••	75925* (26567) 18.6%	10596* (10949) 2.6%
72	•••	2287* (834) 10.7%	165* (121) .8%	•	83676* (34215) 17.7%	13169* (9104) 2.8%
73	113*	5003*	201*	17846*	392832*	59484*
	(113)	(1359)	(118)	(17018)	(98449)	(19243)
	.6%	27.2%	1.1%	1.6%	35.7%	5.4%
75	•••	7840 (1678) 29.9%	1150* (935) 4,4%	•••	122791 (26850) 29.1%	18152* (15986) 4.3%
76	444*	2335*	629*	6409*	45625*	24729*
	(467)	(985)	(514)	(5673)	(18927)	(18405)
	4.5%	23.6%	6.4%	3.2%	22.5%	12.1%
80	100*	3378	232*	199411*	2205092	318075*
	(42)	(437)	(85)	(80168)	(309678)	(112164)
	1.4%	47.8%	3.3%	5.5%	60.3%	8.7%
ALL	15057	147510	32990	4270415	12832300	4392886
	(1518)	(6117)	(3030)	(312964)	(626804)	(350904)
	3.0%	29.2%	6.5%	12.8%	38.6%	13.2%

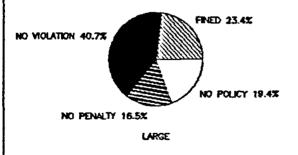
*Standard error >25% of the estimate. The estimate may be unreliable. ...No facilities observed.

FIGURE IV - 106

PROPORTION OF WORKERS IN PLANTS BY CATEGORY OF ECONOMIC PENALTY FOR FAILURE TO USE PROTECTIVE DEVICES PROPERLY (NOES 1981-1983)







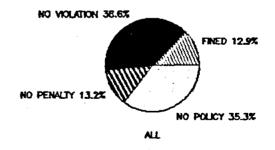
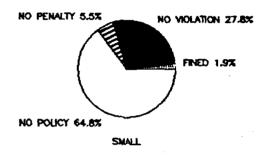
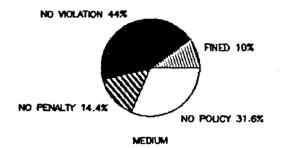
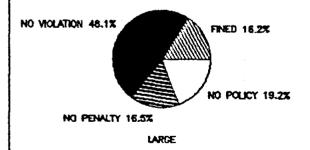
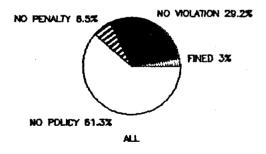


FIGURE IV - 107 PROPORTION OF PLANTS BY CATEGORY OF ECONOMIC PENALTY FOR FAILURE TO USE PROTECTIVE DEVICES PROPERLY (NOES 1981-1983)









NORS QUESTIONNAIRE ITEM NO. 53 Existence of a Program to Regularly Conduct Safety Inspections

Intent

The intent of this question was to determine if regular or periodic safety inspections of the facility were conducted.

This item was displayed on the questionnaire as:

- 53. Do you have a program under which you regularly or periodically conduct safety inspections of this facility?
 - l Yes
 - No (Skip to Question 56)

Notes

A "regular or periodic safety inspection" refers to programs established by facility management which provide inspections on a planned or predictable basis.

Regular or periodic safety inspections performed by consultants, insurance carrier specialists, or other non-government outside sources at the request of facility management meet the criteria for an affirmative response.

Safety inspections conducted by a government agency, precipitated by an accident, or which are conducted as isolated one-time events would result in a negative response to this question.

Analysis

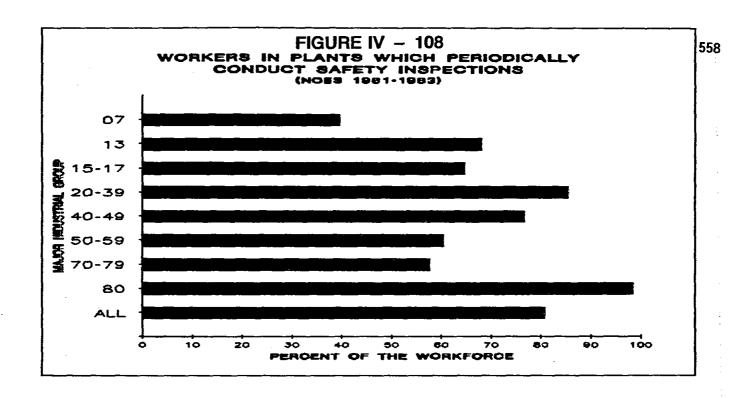
One analysis of the responses to question 53 is presented.

Response 53.1 - Regular or periodic safety inspections conducted

The estimates of the plants which conduct regular or periodic safety inspection of the facility, and workers in those plants (by number and proportion of the total) are displayed in Figures IV-108, IV-109, IV-110, IV-111. IV-112, and IV-113, and Tables IV-71 and IV-72.

Figure IV-108	Workers in plants which periodically conduct safety inspections
	(by major industrial group)
Figure IV-109	Workers in plants which periodically conduct safety inspections
	(by 2-digit SIC)
Figure IV-110	Plants which periodically conduct safety inspections (by major industrial group)
Figure IV-111	Plants which periodically conduct safety inspections (by 2-digit SIC)
Figure IV-112	Workers in plants which have periodic safety

Figure IV-113 Table IV-71	Plants which regularly conduct safety inspections Number and percent of plants and employees in plants which periodically conduct safety inspections of the facility (by major industrial group)
Table IV-72	Number and percent of plants and employees in plants which periodically conduct safety inspections of the facility (by 2-digit SIC)

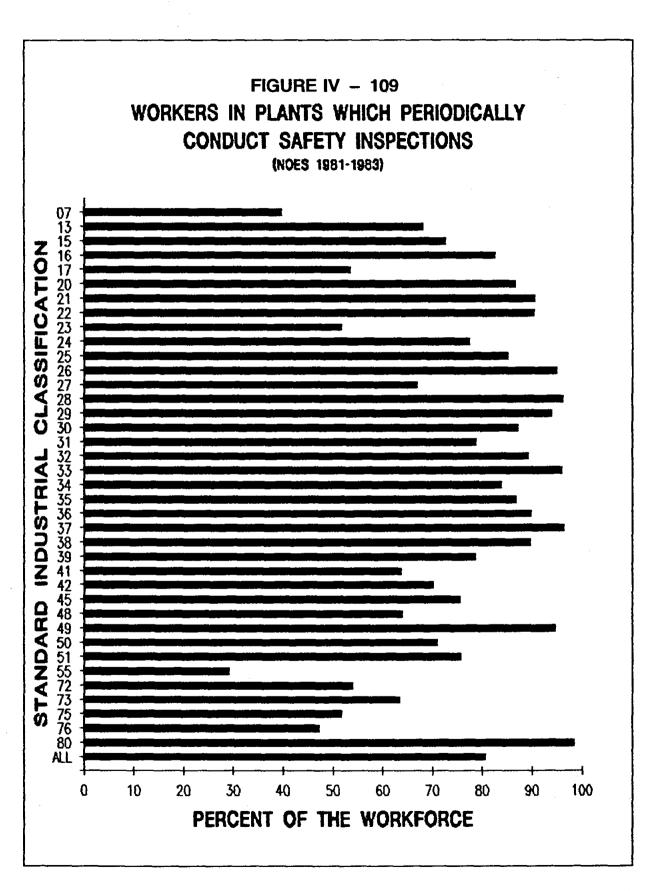


NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. 1V-71

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH PERIODICALLY CONDUCT SAFETY INSPECTIONS OF THE FACILITY

		PLANTS		EMPLOYEES					
MAJOR GROUP	SMALL (8–99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	
07	1867* (863) 33.6%	•••	•••	1867* (863) 33.1%	44128* (22107) 42.6%	•••	•••	44128* (22107) 39.9%	
13	4437±	7 15*	46*	5198*	116482*	135216*	31383*	283081*	
	(1460)	(276)	(52)	(1517)	(38382)	(51999)	(35291)	(80867)	
	51.6%	70. <i>2</i> %	100.0%	53.8%	55.7%	77.7%	100.0%	68.3%	
15-17	45090	3359	220*	48668	1157145	617996	217943*	1993084	
	(2272)	(427)	(128)	(2186)	(46216)	(91994)	(92867)	(122952)	
	47.8%	81.0%	90.8%	49.3%	55.1%	83.8%	92.3%	64.9%	
20-39	80171	27462	6092	113725	2755069	5651482	8074367	16480918	
	(2740)	(1593)	(163)	(3224)	(67179)	(333718)	(261536)	(503758)	
	52.3%	86.5%	97.2%	59.5%	59.7%	88.6%	97.7%	85.6%	
40-49	25374	4920	468*	30763	844177	1012223	573743	2430143	
	(1920)	(829)	(134)	(2112)	(80444)	(193466)	(106392)	(234965)	
	47.7%	84.2%	100.0%	51.7%	58.9%	87.8%	100.0%	76.9%	
50-5 9	28192 (2777) 48.3%	1952* (563) 73.4%	•••	30143 (2799) 49.4%	636146 (69547) 56.6%	294884* (83379) 72.1%	•••	931029 (110607) 60.7%	
70–79	32074	1554	308*	33936	652067	325960	293484*	1271511	
	(2614)	(284)	(148)	(2667)	(68362)	(57745)	(119908)	(135297)	
	43.9%	66.2%	87.0%	44.7%	46.8%	70.2%	86.4%	57 .9%	
80	1636*	2047	2061	5745	67180*	515989	3022676	3605845	
	(597)	(254)	(304)	(660)	(19225)	(76637)	(359103)	(351421)	
	57 .6%	94.5%	100.0%	81.3%	66.1%	9 6.5%	100.0%	98. 6%	
ALL	218841	42009	9195	270045	6272392	8553750	12213596	27039739	
	(5842)	(1986)	(421)	(6170)	(157993)	(419671)	(482621)	(696535)	
	48.7%	84.0%	97. 4%	53.1%	56.6%	86.8%	98.0%	80. 9%	

^{*}Standard error >25% of the estimate. The estimate may be unreliable. ...No facilities observed.



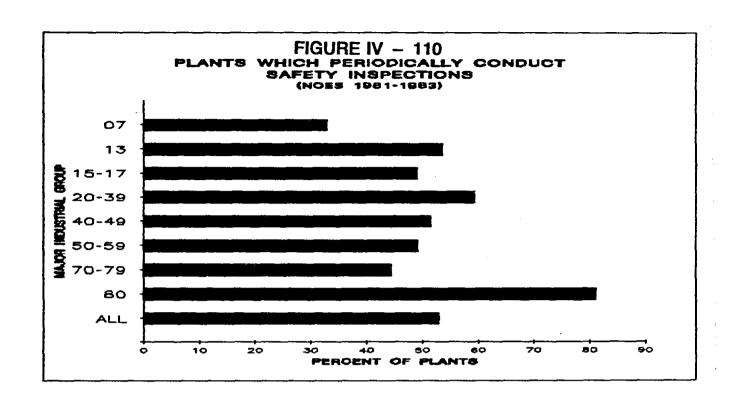
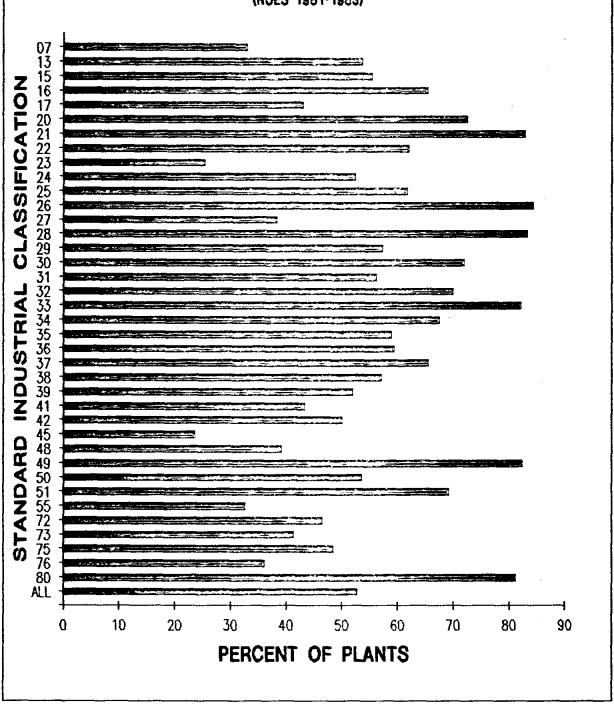


FIGURE IV - 111 PLANTS WHICH REGULARLY CONDUCT SAFETY INSPECTIONS

(NOES 1981-1983)



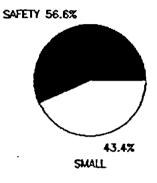
NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS MHICH PERIODICALLY CONDUCT SAFETY INSPECTIONS OF THE FACILITY

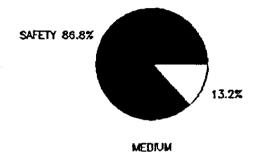
CODE	SMALL (8-99)	PLANTS MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	EMPLOYE MEDIUM (100-499)	EES LARGE (<u>></u> 500)	TOTAL
07	1867* (863) 33.6%	•••	•••	1867* (863) 33.1%	44128* (22107) 42.6%	•••	***	44128* (22107) 39.9%
13	4437=	715*	46±	5198*	116482*	135216*	31383*	283081*
	(1460)	(276)	(52)	(1517)	(38382)	(51999)	(35291)	(80867)
	51.6%	70.2%	100.0%	53.8%	55. <i>7%</i>	77.7%	100. <i>0</i> %	68.3%
15	13301	1107	112*	14521	337546	198218	116685*	652450
	(1046)	(197)	(97)	(1076)	(29236)	(38188)	(68268)	(87683)
	53.4%	100.0%	83. 3%	55.5%	60.0%	100.0%	86.6%	72.8%
16	7124	975	107*	8206	198753	190463	101258*	490473
	(1102)	(191)	(67)	(1124)	(37738)	(43829)	(53561)	(85774)
	63.1%	87.2%	100. 0%	65.6%	70.0%	91.7%	100. <i>0</i> %	82.7%
17	24665 (2021) 42.4%	1276* (325) 66.5%	•••	25941 (1908) 43.2%	620846 (38429) 49.6%	229315* (63409) 69.3%	•••	850161 (53957) 53.7%
20	7540	29 82	533	11055	270775	641475	436908	1349158
	(771)	(485)	(110)	(867)	(24691)	(110039)	(82784)	(109020)
	66.1%	92.7%	95.4%	72.8%	69.7%	95.2%	88.8%	86.8%
21	30* (43) 100.0%	•••	60* (38) 76.1%	90* (50) 83.0%	1866* (2685) 100.0%	•••	101476* (68062) 90.5%	103342* (67354) 90.7%
22	1156*	1544	299*	2998	45137±	340764	261093 *	646994
	(382)	(151)	(80)	(383)	(11460)	(28104)	(94186)	(90659)
	39.4%	97.2%	99.9%	62.2%	42.6%	98.2%	100.0%	90.6%
23	2192*	1632	242*	4067	91109	346948	208437*	646494
	(575)	(193)	(93)	(626)	(20816)	(38984)	(79559)	(91851)
	17. 5%	52.6%	100.0%	25.6%	21.5%	56.9%	100.0%	52.0%
24	5027	1148	104±	6279	173718	183585	92355*	449658
	(594)	(128)	(74)	(606)	(26778)	(22297)	(52501)	(75444)
	46.9%	100.0%	100.0%	52.5%	57.2%	100.0%	100.0%	77.6%
25	2193	999	119*	3310	76639	243298	122998*	442935
	(472)	(171)	(75)	(511)	(17465)	(41624)	(62394)	(80734)
	52.7%	94.1%	9 9.6%	61.9%	55.1%	94.9%	100.0%	85.4%
26	3298	1469	214*	4982	119626	268704	206864*	595194
	(626)	(221)	(73)	(645)	(15845)	(47434)	(65220)	(87641)
	80.2%	93.6%	100.0%	84.5%	86.9%	95.5%	100.0%	95.1%
27	5974	1601	253*	7827	219696	305346	270475*	795516
	(871)	(169)	(106)	(874)	(26469)	(46614)	(77746)	(103090)
	33.0%	85.5%	80.0%	38.5%	45.9%	84.6%	78.2%	67.1%
28	4893	1160	380	6433	148984	260831	476341	886156
	(584)	(93)	(63)	(562)	(10495)	(27986)	(101388)	(105468)
	79.3%	100.0%	100. <i>0</i> %	83.4%	82.4%	100.0%	100.0%	96.5%
29	414*	293*	101*	809*	27919*	63255*	117545*	208719*
	(252)	(125)	(42)	(310)	(16421)	(21394)	(70259)	(81884)
	41.0%	100.0%	100.0%	57.5%	68.1%	100.0%	100.0%	94.1%
30	4605	1281*	224*	6110	166127	258619*	233647*	658393
	(681)	(384)	(73)	(887)	(19528)	(81293)	(72848)	(104414)
	68.6%	83.3%	99.9%	72.1%	73.8%	87.8%	100.0%	87.4%
31	359*	474	25*	858*	12383±	111078*	15664*	139125*
	(201)	(115)	(24)	(268)	(5865)	(30063)	(16901)	(36979)
	38.5%	83.3%	100.0%	56.3%	49.8%	82.0%	100.0%	79.0%
32	5815	1008	184*	7007	177844	207551	128993*	514388
	(781)	(141)	(71)	(800)	(16168)	(30631)	(49687)	(48881)
	6 6.1%	99.6%	99.9%	70.1%	75.0%	99.3%	100.0%	89.4%
33	3160	1386	337	4883	119299	289943	621499	1030741
	(430)	(152)	(62)	(447)	(13192)	(36404)	(82456)	(88789)
	76.4%	94.4%	100.0%	82.2%	8 6. 2%	93.2%	100.0%	96.2%

						EMPLOYE	ce	
SIC COOE	SMALL (8-99)	PLANTS MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (<u>></u> 500)	TOTAL
34	11800 (772) 63.7%	2739 (167) 87.7%	323 (79) 93,4%	14862 (839) 67.6%	387799 (16675) 69.9%	539092 (32355) 90.3%	336688* (100855) 95.9%	1263579 (111476) 84.1%
35	11905 (1096)	3162 (121)	784 (79)	15851 (1093)	353112 (28429)	602208 (15404)	1112933 (147534) 100.0%	2068253 (154038) 86.9%
36	52.6% 3364	92.9% 2196 (132)	100.0% 740 (159)	59.1% 6300 (814)	58.2% 136178 (22891)	91.1% 486834 (17781)	1146676 (186573)	1769688 (193171)
	(737) 47.3%	(122) 81.8%	94.1%	59.6%	78753±	88.1% 223643	97.0% 1514008	90.0% 1816404
37	2203* (617) 55.5%	1044 (111) 87.8%	416 (92) 99.9%	3663 (659) 65.7%	(20209) 62.0%	(28220) 93.5%	(247233) 100.0%	(240062) 96.6%
38	1063* (403) 39.5%	847 (96) 88.5%	416* (139) 99.9%	2325 (472) 57.2%	54024* (13936) 51.6%	168042 (26176) 86.4%	460397* (129998) 100.0%	682464 (142600) 89.9%
39	3179 (633) 48.5%	497* (906) 62.2%	338* (216) 100.0%	4014* (1113) 52.2%	94083 (17340) 56.7%	110265* (206269) 73.8%	209369* {120490} 100.0%	413717* (188896) 78.8%
41	1819* (606) 41.1%	329* (126) 64.5%	•••	2147* (620) 43.6%	68737* (24902) 58.4%	58610* (32330) 71.9%		127347* (39518) 63.9%
42	9491 (1452) 47.4%	1269 (302) 8 5. <i>7</i> %	82* (54) 99.5%	10842 (1491) 50.2%	282546 (45708) 57.9%	219852 (51588) 84.9%	74830* (49333) 100.0%	577228 (66331) 70.3%
45	606± (277) 18.7%	194± (194) 32.8%	147* (57) 100.0%	947* (347) 23.8%	22150* (10528) 28.6%	55275* (55275) 50.6%	264255* (77656) 100.0%	341679* (87550) 75.7%
48	5258 (1294) 35.8%	853 (174) 94.6%	34* (21) 99.0%	6145 (1309) 39.3%	197155* (66514) 46.3%	164076 (37437) 93.1%	70083* (43687) 100.0%	431315 (89792) 64.2%
49	6417 (1566) 78.1%	1862* (567) 100.0%	173* (99) 99.8%	8452 (1777) 82.5%	225639 (54673) 83.8%	425470° (151076) 100.0%	146565* (65566) 100.0%	797673 (185062) 94.8%
50	15540 (1840) 51.2%	1715± (479) 95.2%		17254 (1948) 53.7%	382721 (54934) 60.7%	267871* (78283) 94.6%	•••	650592 (104732) 71.2%
51	6251 (1067) 68.6%	237* (237) 100.0%	•••	6488 (1202) 69.4%	133794 (30113) 72.3%	27013* (27013) 100.0%		160806* (49527) 75.8%
55	6400* (1765) 33.8%	•••		6400* (1765) 32.7%	119631* (42384) 38.7%	•••	•••	119631* (42384) 29.3%
72	9579 (1392) 46.4%	361* (140) 53.5%	13* (19) 100.0%	9954 (1441) 46.7%	199232 (34060) 52.4%	46568* (18900) 56.6%	10670* (15114) 100.0%	256471 (47860) 54.2%
73	6328 (892) 38.2%	1011 (184) 67.9%	295* (139) 86.4%	7633 (875) 41.5%	169639 (34709) 40.3%	246813 (45291) 70.6%	282814* (113492) 86.0%	699265 (105613) 63.6%
75	12702 (2190) 48.5%	59* (60) 99.7%	•••	12761 (2208) 48. 6%	211141 (36778) 51.1%	8238* (8380) 100.0%	•••	219379 (39143) 52.0%
76	3464* (1080) 35.5%	123* (94) 100.0%	•••	3588* (1110) 36.3%	72055* (19586) 40,4%	24341* (19716) 100.0%	•••	96396* (31399) 47.5%
80	1636* (597) 57.6%	2047 (254) 94.5%	2061 (304) 100.0%	5745 (660) 81.3%	67180* (19225) 66.1%	515989 (76637) 96.5%	3022676 (359103) 100.0%	3605845 (351421) 98.6%
ALL	217057 (6826) 48.6%	41644 (1022) 84.0%	9179 (398) 97.4%	267880 (7033) 53.0%	6224442 (150908) 56.5%	8480416 (178392) 86.8%	12204591 (503025) 98.0%	26909449 (530961) 80.9%

^{*}Standard error >25% of the estimate. The estimate may be unreliable. ... Wo facilities observed.

FIGURE IV - 112 WORKERS IN PLANTS WHICH HAVE PERIODIC SAFETY INSPECTIONS BY PLANT SIZE (NOES 1981-1983)







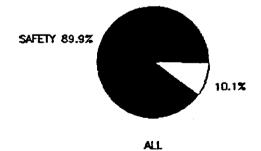
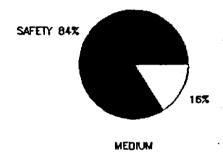


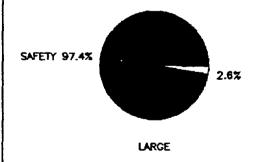
FIGURE IV - 113 PLANTS WHICH REGULARLY CONDUCT SAFETY INSPECTIONS (NOES 1981-1983)

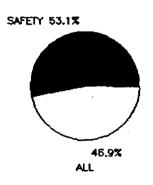
SAFETY 48.7%



SMALL

51.3%





NOES QUESTIONNAIRE ITEM NO. 54 Written Reports Required for Safety Inspections

<u>Intent</u>

The intent of this question was to determine whether all safety inspections of the facility resulted in a written report of the findings.

This item was displayed on the questionnaire as:

- 54. Are written results of these safety inspections required?
 - 1 Yes
 - 2 No

Notes

This question was asked only of those respondents who indicated that safety inspections were regularly conducted.

Written reports were considered to be reports arising from inspection of a facility, whether positive or negative in nature. They need not have been formal, and would have included handwritten or transcribed oral reports.

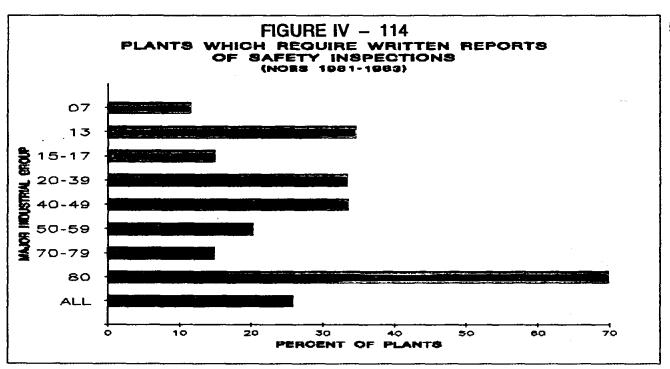
Analysis

One analysis of the responses to question 54 is presented.

Response 54.1 - Written reports of safety inspections required

The estimates of the plants which require written reports of all safety inspections within the facility, and workers in those plants (by number and proportion of the total) are displayed in Figures IV-114, IV-115, IV-116, IV-117, and Tables IV-73 and IV-74.

Figure IV-114	Plants which require written reports of safety inspections
	(by major industrial group)
Figure IV-115	Plants which require written reports of safety inspections (by 2-digit SIC)
Figure IV-116	Workers in plants which require written reports of
LIENTE IA-TIO	safety inspection by plant size
Figure IV-117	Plants which require written reports of safety inspections
Table IV-73	Number and percent of plants and employees in plants which require written reports of safety inspections (by major industrial group)
Table IV-74	Number and percent of plants and employees in plants which require written reports of safety inspections (by 2-digit SIC)



NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. IV-73

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH REQUIRE WRITTEN REPORTS OF SAFETY INSPECTIONS

		PLANTS	,			EMPLOY	EES	
MAJOR GROUP	SMALL (8-99)	MEDIUM (100–499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
07	662* (312) 11.9%	•••	•••	662* (312) 11.7%	27445* (15220) 26.5%	•••	•••	27445* (15220) 24.8%
13	2692*	625*	46*	3363*	72306*	118123*	31383*	221811*
	(1003)	(280)	(52)	(1106)	(21995)	(54160)	(35291)	(75087)
	31.3%	61.3%	100.0%	34.8%	34.6%	67.9%	100.0%	53.5%
15~17	13012	1748*	110*	14870	445534	354518*	124983*	925035
	(1376)	(467)	(60)	(1332)	(43012)	(102394)	(42459)	(84213)
	13.8%	42.2%	45.3%	15.1%	21.2%	48.1%	52.9%	30.1%
20-39	36002	22649	5474	64125	1550569	4781567	7458528	13790665
	(2881)	(1522)	(182)	(3196)	(78535)	(300461)	(250869)	(467020)
	23.5%	71.3%	87.3%	33.5%	33.6%	74.9%	90.2%	71. 6%
40-49	16085	3559	338*	19982	622509	786496	423692	1832697
	(1748)	(781)	(104)	(2050)	(75630)	(194577)	(84368)	(238890)
	30.3%	60.9%	72.2%	33.6%	43.4%	6 8. 2%	73.8%	58.0%
50-59	11165 (2460) 19.1%	1316* (375) 49.5%	•••	12481 (2401) 20.4%	298877 (62319) 26.6%	182183* (50475) 44.6%	•••	481061 (77265) 31.4%
70-79	10271	876	241*	11389	275708	205096	238671*	719474
	(1904)	(197)	(135)	(1975)	(54635)	(45098)	(117405)	(130309)
	14.0%	37.3%	68.2%	15.0%	19.8%	44.2%	70.3%	32.7%
80	1029*	1889	2020	4938	50189*	456277	2985058	3491524
	(434)	(253)	(273)	(588)	(16239)	(73910)	(340832)	(340406)
	36.3%	87.2%	98.0%	69.9%	49.4%	85.4%	98.8%	95.4%
ALL	90918	32661	8229	131809	3343138	6884259	11262315	21489712
	(4921)	(1862)	(378)	(5247)	(146920)	(389357)	(450613)	(653425)
	20.2%	65.3%	87.2%	25.9%	30.2%	69.8%	90.3%	64.3%

^{*}Standard error >25% of the estimate. The estimate may be unreliable. ...No facilities observed.

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH REQUIRE WRITTEN REPORTS OF SAFETY INSPECTIONS

		PLANTS	•			EMPLOYE	ES	
COOE	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (<u>></u> 500)	TOTAL
07	662* (312) 11.9%	•••	•••	662* (312) 11.7%	27445* (15220) 26.5%	•••	•••	27445* (15220) 24.8%
13	2692*	625*	46*	3363*	72306*	118123*	31383*	221811*
	(1003)	(280)	(52)	(1106)	(21995)	(54160)	(35291)	(75087)
	31.3%	61.3%	100.0%	34.8%	34.6%	67.9%	100.0%	53.5%
15	3794	444*	54*	4292	126463	69833*	77206 *	273502
	(847)	(182)	(25)	(857)	(22702)	(28159)	(21590)	(46370)
	15.2%	40.1%	39.7%	16.4%	22.5%	35.2%	57.3%	30.5%
16	2517	674=	56*	3247	88668*	145283*	47776*	281727
	(622)	(180)	(56)	(606)	(24622)	(44379)	(37015)	(56497)
	22.3%	60.2%	52.4%	26.0%	31.2%	69.9%	47.2%	47.5%
17	6701 (1084) 11,5%	630* (243) 32.8%	•••	7331 (1029) 12.2%	230403 (36163) 18.4%	139403* (59010) 42.1%	•••	369806 (55216) 23.4%
20	3190	2721	533	6443	145803	577996	436908	1160707
	(515)	(487)	(110)	(663)	(22301)	(106719)	(82784)	(114953)
	27. 9%	84.6%	95.4%	42.4%	37.5%	85.8%	88.8%	74.7%
21	30* (43) 100.0%	•••	17* (28) 21.6%	47* (47) 43.5%	1866* (2685) 100.0%	•••	45151* (41947) 40.3%	47017* (41262) 41.2%
22	522*	1259	296*	2076	27699*	286058	258826*	572583
	(134)	(133)	(81)	(180)	(9667)	(30146)	(95559)	(94754)
	17. 8%	79.3%	9 8. 9%	43.1%	26.1%	82.4%	99.1%	80.2%
23	1084*	1078	242*	2404	42721*	243932	208437*	495091
	(308)	(153)	(93)	(345)	(12551)	(39039)	(79559)	(93885)
	8.7%	34.7%	100.0%	15.2%	10.1%	40.0%	100.0%	39.9%
24	2071	1035	104*	3210	98689	167462	92355*	358506
	(348)	(148)	(74)	(411)	(21079)	(28043)	(52501)	(77127)
	19.3%	9 0. 2%	100.0%	26.8%	32.5%	91.2%	100.0%	61.9%
25	629*	791	119*	1538	19474*	198539	122998*	341011
	(234)	(166)	(75)	(289)	(7393)	(42485)	(62394)	(80684)
	15.1%	74.5%	9 9.6%	28. 8%	14.0%	77.4%	100.0%	65.8%
26	1408	1256	214*	2878	76448	235079	206864*	518391
	(314)	(280)	(73)	(386)	(13184)	(52054)	(65220)	(88715)
	34.2%	80.0%	100.0%	48.8%	55.5%	83.5%	100.0%	82.8%
27	1999	1078	224*	3301	102127*	219335*	254883*	576344
	(474)	(229)	(89)	(580)	(26321)	(56204)	(73153)	(112335)
	11.0%	57.6%	70. 9%	16.3%	21.4%	60.8%	73.7%	48.6%
28	2717	1125	368	4209	103926	250021	450302	804248
	(540)	(81)	(58)	(545)	(12500)	(25692)	(97051)	(98231)
	44.0%	96.9%	96.9%	54.6%	57.5%	95.9%	94.5%	87.6%
29	318*	259*	101*	677*	24252*	52186*	117545*	193983*
	(203)	(122)	(42)	(258)	(15059)	(19475)	(70259)	(81170)
	31. 4%	88.3%	100.0%	48.2%	59.23	82.5%	100.0%	87.5%
30	2385*	1094*	224*	3703	88840	222932*	233647*	545419
	(624)	(357)	(73)	(823)	(20495)	(80385)	(72848)	(108786)
	35.5%	71.1%	99.9%	43.7%	39.5%	75.7%	100.0%	72.4%
31	273*	372*	22*	667*	7775*	90859*	11650*	110284*
	(201)	(129)	(20)	(280)	(5242)	(32958)	(10428)	(37765)
	29.3%	65.3%	87.3%	43.7%	31. 2 %	67.1%	74.4%	62.7%
32	2933	8 93	184*	4010	105683	191633	128993*	426309
	(607)	(152)	(71)	(632)	(19074)	(33593)	(49687)	(49041)
	33.3%	8 8. 2%	99.9%	40.1%	44.6%	91.7%	100.0%	74.1%
33	1606	1204	327	3137	80564	264577	614374	959515
	(272)	(175)	(60)	(328)	(15712)	(40933)	(79969)	(90662)
	38.8%	82.0%	97,1%	52.8%	58.2%	85.1%	98.9%	89.6%

		DI ANTO				EMPLOY	ce	
CODE	SMALL (8-99)	PLANTS MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL
34	6356	2189	323	8868	245665	464484	336688*	1046837
	(927)	(203)	(79)	(971)	(24625)	(35283)	(100855)	(106907)
	34.3%	70.1%	93. 4%	40.3%	44.3%	77.8%	95.9%	69.7%
35	4002	2760	720	7482	186888	539794	1052352	1779034
	(868)	(257)	(79)	(895)	(28440)	(32338)	(143641)	(154908)
	17.7%	81.1%	91.8%	27.9%	30.8%	81.6%	94.6%	74.7%
36	1652*	1742	679	4073	72093*	409310	1078296	1559700
	(623)	(162)	(136)	(648)	(23159)	(33071)	(171570)	(156197)
	23.3%	64.9%	86.3%	38.5%	31.3%	74.1%	91.2%	79.3%
37	1349*	806	335	2489	54270*	181617	1313865	1549752
	(460)	(167)	(70)	(523)	(20241)	(39811)	(210465)	(208014)
	33.9%	67.7%	80.5%	44.6%	42.7%	75.9%	86.8%	82.4%
38	404*	552	416*	1372	28262*	87394	460397*	576054
	(151)	(108)	(139)	(274)	(10045)	(19039)	(129998)	(136633)
	15.0%	57.7%	99.9%	33.8%	27.0%	45.0%	100.0%	75.9%
39	1076*	437±	26*	1539*	37522*	98359*	33998*	169879*
	(507)	(844)	(19)	(1002)	(9902)	(196241)	(22428)	(194888)
	16.4%	54.7%	7.7%	20.0%	22.6%	65.8%	16.2%	32.4%
41	1120* (448) 25.4%	•••		1120* (448) 22.7%	51164* (22333) 43.5%		•••	51164* (22333) 25.7%
42	5580	1074*	35*	6690	198687	188289*	44236*	431212
	(1081)	(276)	(21)	(1044)	(42483)	(48689)	(34127)	(53746)
	27.9%	72.5%	43.3%	31.0%	40.7%	72.7%	59.1%	52.5%
45	239*	194*	110*	543*	16093*	55275*	195862*	267229*
	(184)	(194)	(52)	(267)	(11185)	(55275)	(58739)	(74531)
	7.4%	32.8%	75.1%	13.6%	20.8%	50.6%	74.1%	59.2%
48	2720*	487*	19*	3227 *	116985*	97634*	37029*	251648*
	(1033)	(229)	(16)	(1037)	(51089)	(38714)	(29526)	(78521)
	18.5%	54.0%	56.8%	20.6%	27.5%	55.4%	52.8%	37.4%
49	4807*	1523*	173*	6502*	201247±	381698*	146565*	729510
	(1381)	(541)	(99)	(1631)	(53549)	(149615)	(65566)	(181915)
	58.5%	81.8%	99.8%	63.4%	74.7%	89.7%	100.0%	86.7%
50	5979 (1427) 19.7%	1316* (375) 73.0%	•••	7295 (1475) 22.7%	165338* (42130) 26.2%	182183* (50475) 64.3%	•••	347522 (66656) 38.0%
51	2358* (809) 25.9%	•••	•••	2358* (809) 25.2%	62620* (22540) 33.8%	•••	•••	62620* (22540) 29.5%
5 5	2828* (1255) 14.9%	•••	•••	2828 * (1255) 14.5%	70918* (35446) 22. 9%		•••	70918* (35446) 17.4%
72	3078* (1157) 14.9%	150* (88) 22.3%	•••	3228* (1174) 15.1%	87450* (27973) 23.0%	18070* (10480) 22.0%	•••	105519* (29715) 22.3%
73	2889	689	241*	3820	97893*	174354	238671*	510918
	(588)	(149)	(135)	(642)	(33472)	(38036)	(117405)	(114097)
	17.4%	46.3%	70.8%	20.8%	23.2%	49.9%	72.6%	46.4%
75	3078* (1124) 11.8%	•••	•••	3078* (1124) 11.7%	56213* (17513) 13.6%	•••	•••	56213* (17513) 13.3%
76	1227* (649) 12.6%	36* (45) 29,4%		1263* (658) 12 .8%	34152* (15392) 19.1%	12672* (15755) 52.1%		46824* (23058) 23.1%
80	1029±	1889	2020	4938	50189*	456217	2985058	3491524
	(434)	(253)	(273)	(588)	(16239)	(73910)	(340832)	(340406)
	36.3%	87.2%	98.0%	69.9%	49.4%	85.4%	98.8%	95.4%
ALL	89300	32406	8229	129935	3304805	6829748	11262315	21396868
	(4927)	(1119)	(431)	(5070)	(127017)	(198625)	(486499)	(484330)
	20.0%	65.4%	87.3%	25.7%	30.0%	69.9%	90.4%	64.3%

*Standard error >25% of the estimate. The estimate may be unreliable. ...No facilities observed.

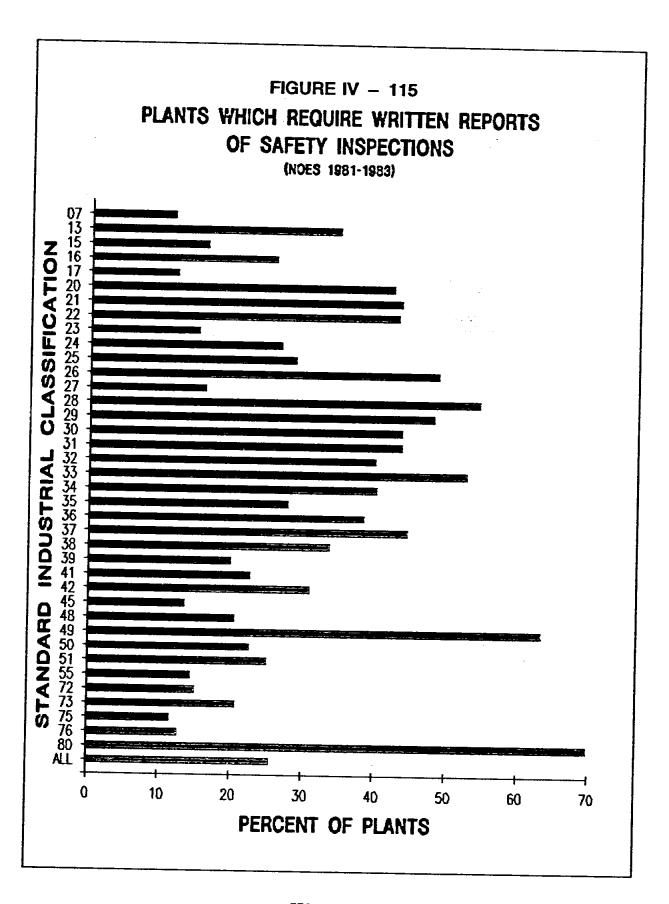
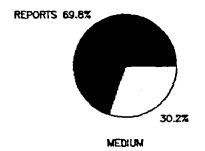
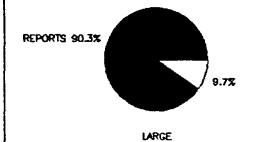


FIGURE IV - 116 WORKERS IN PLANTS WHICH REQUIRE WRITTEN REPORTS OF SAFETY INSPECTIONS BY PLANT SIZE (NOES 1981-1983)







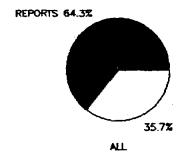
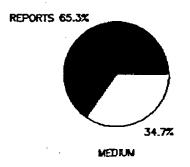
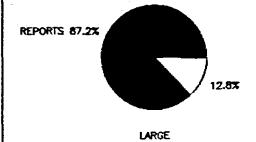


FIGURE IV - 117 PLANTS WHICH REQUIRE WRITTEN REPORTS OF SAFETY INSPECTIONS (NOES 1981-1983)









NOES QUESTIONNAIRE ITEM NQ. 55 Results of Safety Inspections Routinely Made Available to Workers

<u>Intent</u>

The intent of this question was to determine whether affected employees are routinely provided with the results of safety inspections.

This item was displayed on the questionnaire as:

- 55. Are the results of the safety inspections posted or otherwise made routinely available to affected employees?
 - l Yes
 - 2 No

<u>Notes</u>

"Routinely available" safety inspections results were considered to be those reports provided to affected employees as a normal practice established by management policy. These reports can be written or oral or displayed in areas commonly used by workers, as long as they convey the results of a safety inspection.

An "affected employee" was a worker whose occupational environment was included in a safety inspection.

Posting government inspections or any other inspection not initiated by management did not meet the intent of this question.

Analysis

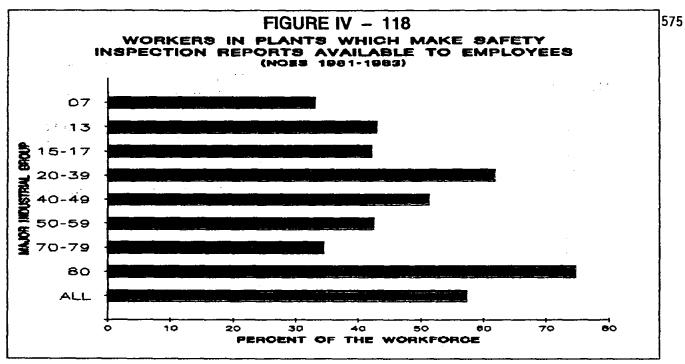
One analysis of the responses to question 55 is presented.

Response 55.1 - Safety inspection reports made available to workers

The estimates of the plants which routinely make safety inspection reports available to their employees, and workers in those plants (by number and proportion of the total) are displayed in Figures IV-118, IV-119, IV-120, IV-121, IV-122, and IV-123, and Tables IV-75 and IV-76.

Figure IV-118	Workers in plants which make safety inspection reports available to employees
	(by major industrial group)
Figure IV-119	Workers in plants which make safety inspection reports available to employees (by 2-digit SIC)
Figure IV-120	Plants which make safety inspection reports available to employees (by major industrial group)
Figure IV-121	Plants which make safety inspection reports available to employees (by 2-digit SIC)

Figure IV-122	Workers in plants which provide safety inspection reports to employees by plant size
Figure IV-123	Plants which provide safety inspection reports to employees
Table IV-75	Number and percent of plants and employees in plants which make reports of safety inspections available to workers (by major industrial group)
Table IV-76	Number and percent of plants and employees in plants which make reports of safety inspections available to workers (by 2-digit SIC)

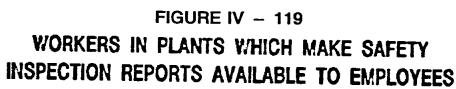


MATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. IV-75

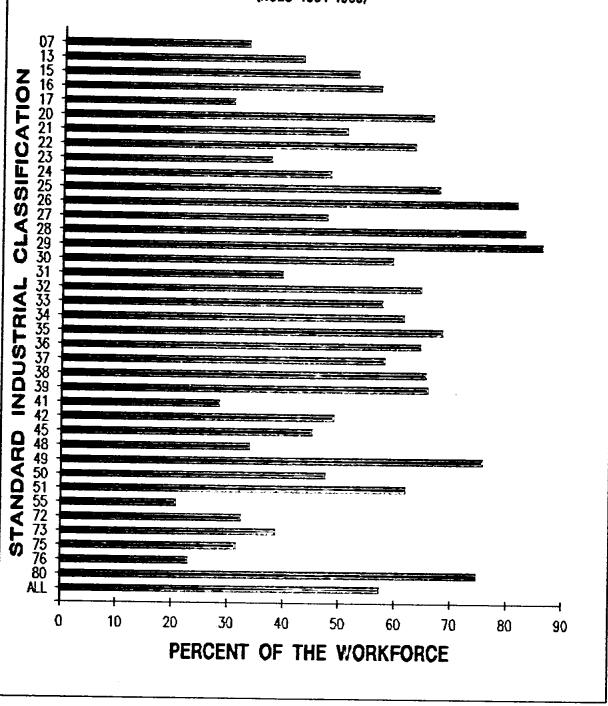
NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH MAKE REPORTS OF SAFETY INSPECTIONS AVAILABLE TO WORKERS

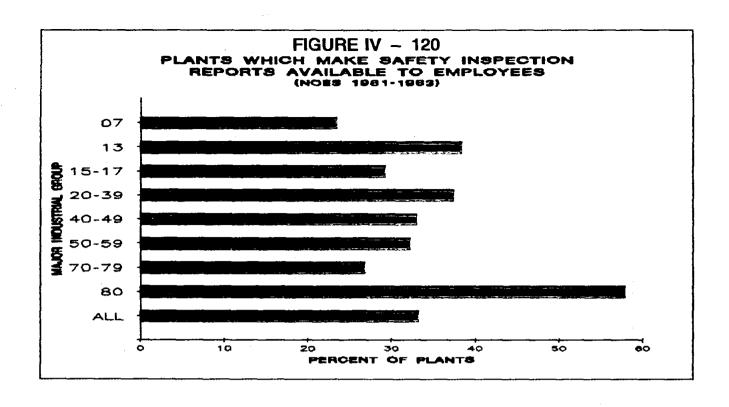
		PLANTS				EMPLOY	FFS	
MAJOR GROUP	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (>500)	TOTAL
07	1325* (679) 23.8%	•••	•••	1325* (679) 23.5%	36891* (21268) 35.6%	•••	•••	36891* (21268) 33.3%
13	3375*	294*	46*	3716*	87713*	59260*	31383*	178355*
	(1217)	(119)	(52)	(1229)	(27544)	(25998)	(35291)	(55391)
	39.3%	28.9%	100.0%	38.5%	42.0%	34.1%	100.0%	43.1%
15-17	26408	2440	133*	28980	707905	462618	127627*	1298151
	(1683)	(429)	(117)	(1658)	(50065)	(92666)	(81082)	(117189)
	28.0%	58.9%	54.8%	29.4%	33.7%	62.8%	54.1%	42.3%
20–39	47243	19612	4898	71753	1678217	4030695	6216075	11924988
	(2872)	(1428)	(309)	(3387)	(64790)	(302258)	(358587)	(411764)
	30.8%	61.8%	78.1%	37.5%	36.4%	63.2%	75.2%	61.9%
40-49	16126	3226	345*	19697	579816	652221*	392804	1624841
	(1343)	(711)	(108)	(1556)	(57858)	(164789)	(80071)	(193144)
	30.3%	55.2%	73.8%	33.1%	40.4%	56.6%	68.5%	51.4%
50-59	18359 (2629) 31. 4%	1385* (488) 52.1%	•••	19745 (2701) 32.3%	441008 (63610) 39.2%	211541* (72794) 51.7%	•••	652548 (101343) 42.6%
70–79	19285	846	238*	20370	374732	172142	214220*	761093
	(2566)	(199)	(133)	(2594)	(59748)	(41938)	(112578)	(126445)
	26.4%	36.1%	67.3%	26.9%	26.9%	37.1%	63.1%	34.6%
80	934*	1544	1621	4099	43461*	373498	2318379	2735338
	(412)	(199)	(225)	(536)	(15095)	(55203)	(271015)	(276811)
	32.9%	71.3%	78.7%	58.0%	42.8%	69.9%	76.7%	74.8%
ALL	133057	29347	7281	169685	3949742	5961975	9300488	19212205
	(5338)	(1749)	(438)	(5738)	(138227)	(371326)	(478475)	(571832)
	29.6%	58.7%	77.1%	33. 4%	35.6%	60.5%	74.6%	57.5%

 $[\]pm$ Standard error >25% of the estimate. The estimate may be unreliable. ...No facilities observed.



(NOES 1981-1983)





NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS INICH MAKE REPORTS OF SAFETY INSPECTIONS AVAILABLE TO MORKERS

		PLANTS				EMPLOYE	nee .	
CODE 21C	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	MEDIUM (100-499)	LARGE (<u>></u> 500)	TOTAL
07	1325* (679) 23.8%	•••	•••	1325* (679) 23.5%	36891* (21268) 35.6%	•••	•••	36891* (21268) 33.3%
13	3375°	294*	46*	3716*	877 13*	59260*	31383*	178355*
	(1217)	(119)	(52)	(1229)	(27544)	(25998)	(35291)	(55391)
	39,3%	28.9%	100.0%	38.5%	42.0%	34.1%	100.0%	43.1%
15	8784	8 61	94*	9739	237005	145209*	91821*	474035
	(1112)	(210)	(97)	(1163)	(27067)	(37613)	(67997)	(81578)
	35.3%	77.8%	69.6%	37.2%	42.1%	73.3%	68.1%	52.9%
16	4362	819	39*	5220	132456	169917*	35806*	338180
	(848)	(183)	(48)	(867)	(30846)	(42609)	(31376)	(67597)
	38.7%	73.2%	36.2%	41.7%	46. 6%	81.8%	35.4%	57.0%
17	13261 (1353) 22. 8%	759* (273) 39.6%	•••	14021 (1376) 23.3%	338443 (38783) 27.0%	147492* (58802) 44.5%		485935 (75976) 30.7%
20	4506	2241	464*	7210	171301	476807	381457*	1029565
	(596)	(375)	(133)	(642)	(23593)	(83219)	(99665)	(108792)
	39.5%	6 9.7%	83.0%	47.5%	44.1%	70.8%	77.6%	66.3%
21	30* (43) 100.0%	•••	43* (34) 54.5%	73* (51) 67.3%	1866 * (2685) 100.0%	•••	56325* (44772) 50.2%	58191* (44417) 51.0%
22 .	475*	929	257*	1661	20309±	209444	221651*	451403
	(189)	(130)	(78)	(231)	(7913)	(32771)	(74573)	(76770)
	16.2%	58.5%	85.9%	34.5%	19.2%	60.3%	84.9%	63.2%
23	1181*	1026	242*	2449	37903*	218275	208437±	464615
	(380)	(188)	(93)	(424)	(17234)	(38524)	(79559)	(84340)
	9.4%	33.1%	100.0%	15.4%	8.9%	35.8%	100.0%	37.4%
24	2461	653	104±	3218	84492	102184	92355*	279031
	(474)	(144)	(74)	(517)	(16370)	(19521)	(52501)	(60746)
	23.0%	56.9%	100.0%	26.9%	27.8%	55.7%	100.0%	48.1%
ජ	1081±	748	119*	1947*	38293*	189044	122998*	350335*
	(410)	(181)	(75)	(501)	(17739)	(46539)	(62394)	(91539)
	26.0%	70.4%	9 9. 6%	36.4%	27.5%	73.7%	100.0%	67.6%
26	2168*	1233	205*	3606	82452	232447	196027*	\$10925
	(677)	(220)	(70)	(740)	(18690)	(50360)	(60369)	(88584)
	52.7%	78.6%	95.6%	61.2%	59.9%	82.6%	94.8%	81.6%
27	3541	1297	189*	5027	139337	243427	181768*	564532
	(631)	(178)	(86)	(659)	(26106)	(48816)	(68733)	(95522)
	19.5%	69.2%	59.7%	24.8%	29.1%	67.4%	52. 6%	47.6%
28	3692	1002	339	5033	107320	229923	424859*	762103
	(582)	(113)	(69)	(632)	(11432)	(30110)	(108411)	(119377)
	59.8%	86.3%	89.3%	65.3%	59.4%	88.2%	89.2%	83.0%
29	345*	259*	101*	705*	21404*	52186*	117545*	191134*
	(232)	(122)	(42)	(286)	(13620)	(19475)	(70259)	(80273)
	34.2%	88.3%	100.0%	50.2%	52.2%	82.5%	100.0%	86.2%
30	2411*	922*	147*	3480	83192	179263*	185926*	448381
	(638)	(300)	(72)	(816)	(18666)	(56134)	(77041)	(82852)
	35.9%	60.0%	65. <i>7%</i>	41.1%	37.0%	6 0.9%	79.6%	59.5%
31	135*	199*	22*	356*	6795*	51205*	11650*	69650*
	(80)	(100)	(20)	(135)	(4435)	(26957)	(10428)	(31310)
	14.5%	35.0%	87.3%	23.4%	27.3%	37.8%	74.4%	39.6%
32	3496	763	144±	4402	115037	159196	96654*	370886
	(643)	(159)	(60)	(699)	(18379)	(34409)	(43221)	(53692)
	39.7%	75. 4%	78.0%	44.0%	48.5%	76.2%	74.9%	64.5%
33	1890	923	229	3042	78566	197993	340660	617219
	(391)	(200)	(51)	(482)	(14641)	(34732)	(64535)	(62815)
	45.7%	62.9%	68.0%	51.2%	56.7%	63.6%	54.8%	57.6%

						FIRST OVE		
COOE	SMALL (8-99)	PLANTS MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	EMPLOYI MEDIUM (100–499)	LARGE (<u>></u> 500)	TOTAL
34	6751	1974	271*	8996	236840	398699	288572*	924111
	(916)	(203)	(73)	(878)	(21342)	(40030)	(83930)	(101385)
	36.5%	63.2%	78.3%	40.9%	42.7%	66.8%	82.2%	61.5%
35	7042	2436	683	10161	232654	463866	931342	1627861
	(913)	(179)	(84)	(903)	(24417)	(29744)	(128677)	(137531)
	31.1%	71.5%	87.1%	37. 9%	38.3%	70.2%	83.7%	68. 4%
36	2134*	1471	460	4065	87759*	343249	837263	1268271
	(749)	(177)	(112)	(825)	(25082)	(33804)	(186830)	(193930)
	30.0%	54.8%	58.5%	38.4%	38.1%	62.1%	70.8%	64.5%
37	1330±	692	200	2222	53425*	128490	910786	1092701
	(472)	(79)	(45)	(497)	(21188)	(25104)	(164672)	(177823)
	33.5%	58.2%	48.1%	39.8%	42.1%	53.7%	60.2%	58.1%
38	649*	442*	342*	1433*	31811*	65761*	400433*	498004
	(374)	(125)	(121)	(415)	(11295)	(19288)	(121004)	(122479)
	24.1%	46.2%	82.2%	35.3%	30.4%	33.8%	87.0%	65.6%
39	1927*	402*	338*	2667*	47462*	89236*	209369*	346068*
	(665)	(780)	{216}	(1059)	(13873)	(180997)	(120490)	(166885)
	29.4%	50.4%	100.0%	34.7%	28.6%	59.7%	100.0%	66.0%
41	1532* (573) 34.7%	•••	***	1532* (573) 31.1%	56913* (21941) 48.4%	•••	•••	56913* (21941) 28.6%
42	5774	943*	68*	6785	194272	155313*	54925*	404511
	(1055)	(295)	(52)	(1048)	(41081)	(47102)	(46095)	(62900)
	28.8%	63.6%	82.6%	31.4%	39.8%	60.0%	73.4%	49.2%
45	384*	75*	101*	561*	19710*	7769*	176638*	204117*
	(200)	(75)	(48)	(210)	(10449)	(7769)	(60475)	(58857)
	11.8%	12.8%	69.0%	14.1%	25.4%	7.1%	66.8%	45.3%
48	2386*	643*	19*	3048*	75331*	116603*	37029*	228963*
	(939)	(161)	(16)	(951)	(26564)	(37646)	(29526)	(58357)
	- 16.2%	71.3%	56.8%	19.5%	17.7%	66.1%	52.8%	34,1%
49	5317	1398*	124*	6840	201881	330273*	106202*	638355*
	(1299)	(520)	(84)	(1526)	(50166)	(145489)	(52554)	(170199)
	64.7%	75.1%	71.8%	66.7%	74.9%	77.6%	72.5%	75.9%
50	10043 (1431) 33.1%	1148* (408) 63.7%	•••	11191 (1508) 34.8%	251123 (40913) 39.8%	184528* (68295) 65.1%	•••	435651 (85634) 47.7%
51	4272 (883) 46.9%	237* (237) 100.0%	•••	4509 (1020) 48.2%	104659* (26973) 56.6%	27013* (27013) 100.0%	•••	131672* (46207) 62.1%
55	4045* (1456) 21.4%	•••	•••	4045* (1456) 20.7%	85225* (35528) 27.6%	•• •	•••	85225* (35528) 20.9%
12	5753 (1368) 27.9%	319* (135) 47.2%	•••	6071 (1409) 28.5%	113126* (28654) 29.8%	41058± (18191) 49.9%	•••	154184 (35378) 32.6%
73	4046	492*	238*	4776	93979*	118411*	214220*	426610*
	(805)	(132)	(133)	(808)	(27507)	(33691)	(112578)	(114200)
	24.4%	33.0%	69.8%	26.0%	22.3%	33. 9%	65.1%	38.8%
75	8187* (2057) 31.3%	•••	•••	8187* (2057) 31.2%	133503 (31199) 32.3%	•••	•••	133503 (31199) 31.7%
76	1300* (643) 13.3%	36* (45) 29.4%	•••	1336* (663) 13.5%	34124* (14519) 19.1%	12672* (15755) 52.1%	•••	46796* (24825) 23.1%
80	934*	1544	1621	4099	43461*	373498	2318379	2735338
	(412)	(199)	(225)	(536)	(15095)	(55203)	(271015)	(276811)
	32.9%	71.3%	78.7%	58.0%	42.8%	69.9%	76.7%	74.8%
ALL	132324	29207	7265	168795	3918033	5928802	9291483	19138317
	(5532)	(919)	(262)	(5826)	(138944)	(186731)	(447588)	(427419)
	29.6%	58.9%	77.1%	33.4%	35.5%	60,7%	74.6%	57.5%
				_				

^{*}Standard error >25% of the estimate. The estimate may be unreliable. ... No facilities observed.

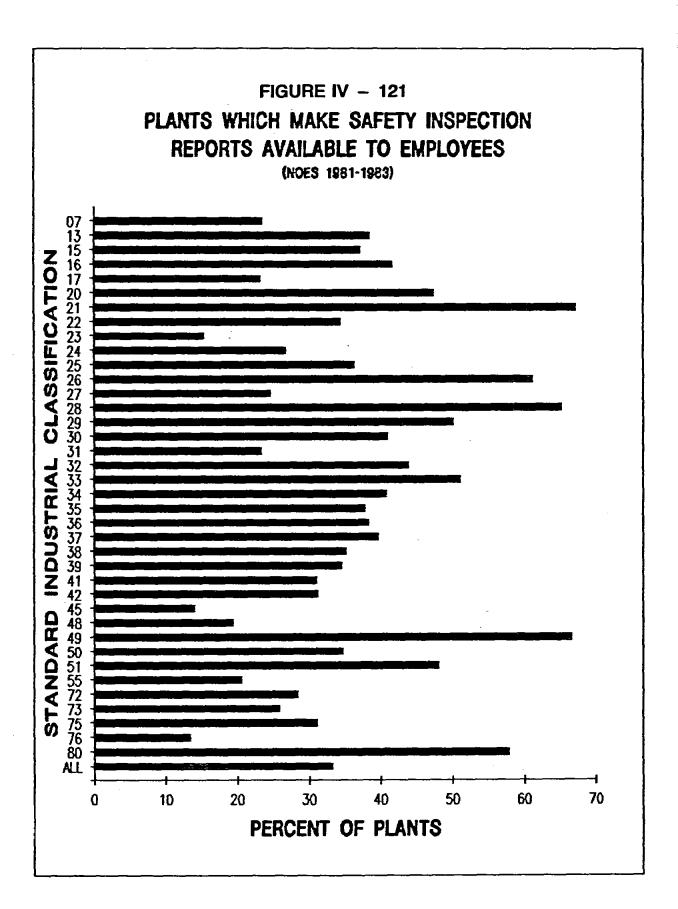
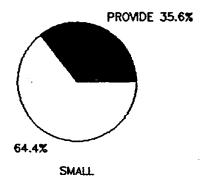
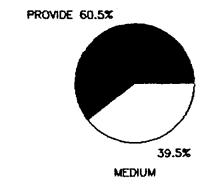
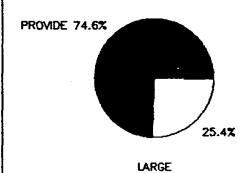
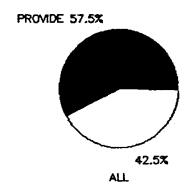


FIGURE IV - 122 WORKERS IN PLANTS WHICH PROVIDE SAFETY INSPECTION REPORTS TO EMPLOYEES BY PLANT SIZE (NOES 1981-1983)



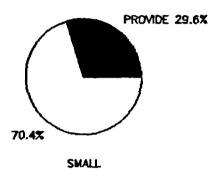


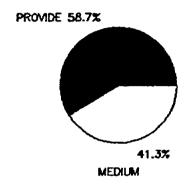


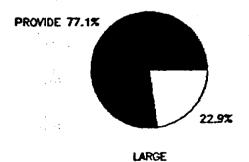


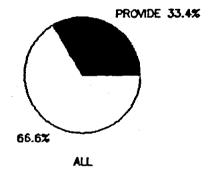
PLANTS WHICH PROVIDE SAFETY INSPECTION REPORTS TO EMPLOYEES

(NOES 1981-1983)









NOES QUESTIONNAIRE ITEM NO. 56 Plants Which Have a Regular Preventive Maintenance Program

<u>Intent</u>

The intent of this question was to determine whether the facility had a regularly scheduled preventive maintenance program.

This item was displayed on the questionnaire as:

- 56. Do you have a regularly scheduled preventive maintenance program?
 - 1 Yes
 - 2 No

<u>Notes</u>

A preventive maintenance program was considered to be a management-initiated process of inspection and corrective action or repair intended to precede any actual failure of the physical structure or related equipment of the facility.

A program which involved preventive inspections at intervals of three or more years did not meet the criteria for a regularly scheduled preventive maintenance program.

Analysis

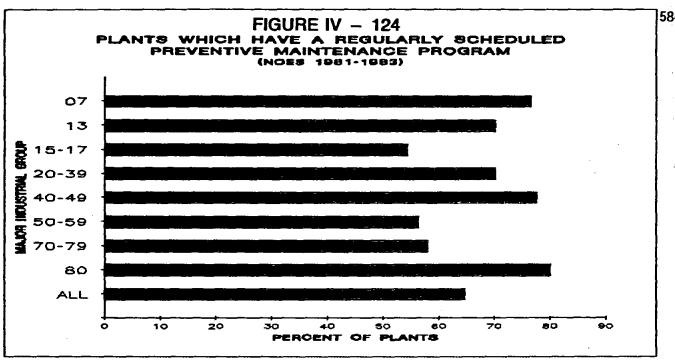
One analysis of the responses to question 56 is presented

Response 56.1 - Existence of a regularly scheduled preventive maintenance program

The estimates of the plants which have a regularly scheduled program for the preventive inspection of the facility and its equipment, and workers in those plants (by number and proportion of the total) are displayed in Figures IV-124, IV-125, IV-126, and IV-127, and Tables IV-77 an IV-78.

Figure IV-124	Plants which have a regularly scheduled preventive maintenance program (by major industrial group)
Figure IV-125	Plants which have a regularly scheduled preventive maintenance program
•	(by 2-digit SIC)
Figure IV-126	Workers in plants which have a preventive maintenance program by plant size
Figure IV-127	Plants which have a scheduled preventive maintenance program
Table IV-77	Number and percent of plants and employees in plants which have a regularly scheduled preventive maintenance program (by major industrial group)
Table IV-78	Number and percent of plants and employees in plants which have a regularly scheduled preventive maintenance program (by 2-digit SIC)



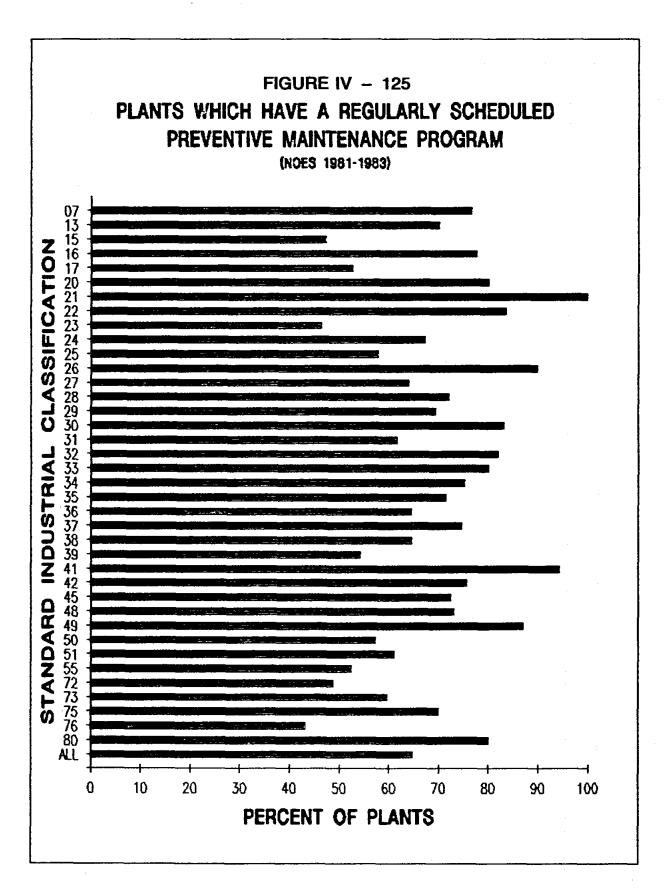


NATIONAL OCCUPATIONAL EXPOSURE SURVEY (1981-1983) TABLE NO. IV-77

NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH HAVE A REGULARLY SCHEDULED PREVENTIVE MAINTENANCE PROGRAM

	-	PLANTS						
MAJOR GROUP	SMALL (8-99)	MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8–99)	MEDIUM (100–499)	LARGE (>500)	TOTAL
07	4257* (1285) 76.5%	70* (67) 100.0%	•••	4327* (1268) 76.8%	81088* (25991) 78.2%	7009* (6680) 100.0%	•••	88097* (24752) 79.6%
13	5995	765*	46*	6806	146839	133042*	31383*	311264*
	(1474)	(286)	(52)	(1664)	(33445)	(46661)	(35291)	(93720)
	69.7%	75.1%	100.0%	70.4%	70.3%	76.5%	100.0%	75.1%
15-17	50630	3086	178*	53894	1238766	577450	182994*	1999210
	(2605)	(476)	(119)	(2604)	(57589)	(95574)	(91835)	(134999)
	53.7%	74.4%	73.5%	54.6%	59.0%	78.3%	77.5%	65.1%
20-39	102024	26554	5825	134403	3233687	5424547	7862371	16520605
	(3503)	(1724)	(215)	(4134)	(84076)	(327931)	(260958)	(510735)
	66.6%	83.6%	92.9%	70.3%	70.1%	85.0%	95.1%	85.8%
40-49	40401	5388	468*	46257	1166734	1073811	573743	2814288
	(2533)	(981)	(134)	(3123)	(97005)	(216660)	(106392)	(284905)
	76.0%	92. 2%	100.0%	77.8%	81.4%	93.1%	100.0%	89.0%
50-59	32501 (2688) 55.7%	2016* (561) 75.8%	•••	34518 (2684) 56.5%	720214 (65284) 64.1%	303574* (85969) 74.3%	•••	1023788 (114157) 66.8%
70-79	42048	1830	269*	44147	834403	359272	264910*	1458586
	(3088)	(260)	(138)	(3142)	(66288)	(51521)	(113487)	(127398)
	57.5%	78.0%	76.0%	58.2%	59.9%	77.3%	78.0%	66.4%
80	1894*	1766	2009	5670	81519	448227	2969976	3499721
	(607)	(263)	(315)	(600)	(18741)	(75551)	(368653)	(361883)
	66.7%	81.5%	97.5%	80.2%	80.2%	83.9%	98.3%	95.7%
ALL	279751	41475	8796	330021	7503250	8326932	11885378	27715559
	(6814)	(2167)	(446)	(7445)	(174919)	(426134)	(487731)	(727917)
	62.3%	82.9%	93.2%	64.9%	67.7%	84.5%	95.3%	83.0%

^{\$}Standard error >25% of the estimate. The estimate may be unreliable. ..No facilities observed.



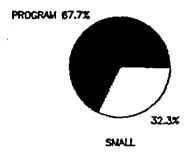
NUMBER AND PERCENT OF PLANTS AND EMPLOYEES IN PLANTS WHICH HAVE A REGULARLY SCHEDULED PREVENTIVE MAINTENANCE PROGRAM

		DI AUTE				:		
SIC COOE	SMALL (8-99)	PLANTS MEDIUM (100-499)	LARGE (>500)	TOTAL	SMALL (8-99)	EMPLOY(MED JUM (100-499)	:ES LARGE (≥500)	TOTAL
07	4257*	70*		4327*	81088 *	7009*		8 8097*
	(1285)	(67)	•••	(1268)	(25991)	(6680)	***	(24752)
	76.5%	100.0%		76.8%	78.2%	100.0%		79.6%
13	599 5	765*	46 *	6806	146839	133042*	31383*	311264*
	(1474)	(286)	(52)	(1664)	(33445)	(46661)	(35291)	(93720)
	69.7%	75.1%	100.0%	70.4%	70.3%	76.5%	100.0%	75.1%
15	11293	1019	106*	12419	275694	182342	103397*	561434
	(1293)	(204)	(98)	(1342)	(28615)	(40941)	(67194)	(75343)
	45.3%	92.1%	78.8%	47.5%	49.0%	92.0%	76.7%	62.7%
16	8 587	1074	72*	9733	222407	203272	79597*	505276
•	(1396)	(206)	(48)	(1335)	- (47750)	(45391)	(46726)	(74531)
4	76.1%	96.0%	66.9%	77.8%	78.3%	97.8%	78.6%	8 5. 2%
17	30749	992*		31741	740664	191836*		932500
	(2080)	(352)	•••	(2196)	(39922)	(73159)	•••	(82691)
	52.9%	51.7%		52.9%	59.2%	57.9%		58.9%
20	8587	3055	559	12202	312096	649225	491775	1453096
	(792)	(454)	(121)	(819)	(17641)	(105481)	(104930)	(105601)
	75.2%	95.0%	100.0%	80.3%	80.3%	96.4%	100.0%	93.5%
21	30*	•	79*	109*	1866*		112133*	113999*
	(43) 100.0%	•••	(56) 99.6%	(65) 100,0%	(2685) 100.0%	***	(67572) 100.0%	(66861) 100.0%
	100.02	•	33.04	. 100.0%	100.03		100.03	100.02
22	2327	1409	295*	4032	83505	317274	258387*	659165
-	(404) 79.4%	(146) 88.7%	(80) 9 8. 7%	(428) 83.7%	(10500) 78.8%	(25009) 91,4%	(94273) 99.0%	(89349) 92.3%
	13.74	00.75	30.1M	63.72	10.02	715	33.V#	JC.3#
23	5340	1890	147*	7377	197458	395081	143575*	736114
•	(921) 42.7%	(286) 6 0. 9%	(68) 6 0. 7%	(1024) 46.5%	(35392) 46.6%	(53185) 64.8%	(61571) 68.9%	(82290) 59.3%
	42.16	60.35	00.72	40.3 6	40.04	U-1.0A	90.38	37.36
24	7024	931	104*	8059	221071	137120	92355*	450545
1. *	(\$58) 65.6%	(160) 81.7%	(74) 100.0%	(870) 67. 4%	(25041) 72.8%	(26850) 74.7%	(52501) 100.0%	(81654) 77.7%
	65.68	01.15	100.03	07.44	12.08	17.72	100.02	*****
2 5	2139	925	30*	3094	69291	225787	50849*	345927
-	(421) 51.4%	(186) ' 87.1%	(31) 25.23	(406) 57.9%	(14436) 49, 8%	(50059) 8 8.0%	(32821) 41.3%	(56021) 66.7%
	31.44	07.15	23.25	31.3%	47.02	66.04	71.32	60.75
26	3701	1390	214*	5305	116865	247960	206864*	571690
	(827) 90.0%	(239) 8 8. 6%	(73) 100.0%	(851) 90.0%	(22994) 84. 9%	(49418) 88.1%	(65220) 100. 0%	(88906) 91.3%
	30.UA	00.0A	100.03	50.08	U-1.5%	00.12	. 100.02	31.00
27	10977	1762	298*	13037	320652	334283	326636	981571
	(1088) 60.6%	(167) 94.1%	(113) 94.2%	(1084) 64.2%	(32071) 67.1%	(44106) 92.6%	(81330) 94.5%	(105571) 82.8%
	00.02	24.15	34.LM	04.23				
28	4189	1002	380	5571	123053	233313	476341	8 32707
	(580) 67.9%	(122) 86.4%	(63) 100. 0%	(589) 72. 2%	(12524) 68.1%	(31357) 8 9. 4%	(101388) 100.0%	(107885) 90.7%
		W. 45		,				•
29	584*	293*	101*	978*	34715*	63255*	117545*	215515*
	(289) 57.8%	(125) 100.0%	(42) - 100.0%	(351) 69.6%	(17013) 84.7%	(21394) 100.0%	(70259) 100.0%	(82016) 97.2%
:	37.02		100.02	- 03.02				
30	5476	1370*	208*	7053	181632	267875*	224823*	674331
1 1	(921) 81.6%	(362) 8 9.1%	(78) 92.7%	(1036) 83.3%	(22287) 80.7%	(79555) 91.0%	(75600) 96.2%	(108965) 89.5%
31	475*	444± (115)	25* (24)	944± (200)	16Z39*	98972*	15664* (16901)	130875* (34005)
	(233) 51.0%	(115) 78.0%	(24) 100.0%	(299) 61. 9%	(6684) 6 5. 2%	(27608) 73.1%	100.0%	74.4%
					-			
32	7132 (1175) -	903	184* (71)	8219 (1215)	211020 (17459)	191744 (33909)	128993* (49687)	531757 (47222)
	81.1%	(162) 8 9. 2%	(71) 99.9%	(1215) - 8 2. 2%	(17459) 89.0%	91.8%	100.0%	92.5%
		÷.			* *			
33 .	3197 (384)	1240 (171)	327 (55)	4764 (403)	113200 (12790)	270447 (38306)	609910 (74715)	993557 (83804)
	17.3%	84.5%	97.0%	80.2%	81.8%	86.9%	98.1%	92.8%
								•

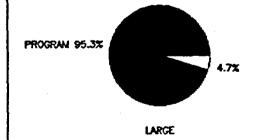
						CHO! ON!		
CODE	SMALL (8-99)	PLANTS MEDIUM (100-499)	LARGE (≥500)	TOTAL	SMALL (8-99)	EMPLOY(MEDIUM (100-499)	:ES LARGE (<u>></u> 500)	TOTAL
34	13517	2749	320=	16586	405481	530089	332357*	1267927
	(1044)	(210)	(80)	(1012)	(18387)	(37150)	(99526)	(118602)
	73.0%	88.1%	92.6%	75.4%	73.1%	88.8%	94.7%	84,4%
35	15541	2984	702	19227	408417	583932	1020084	2012433
	(1196)	(179)	(79)	(1208)	(22492)	(24164)	(137469)	(139335)
	68.6%	87.6%	89.5%	71 .6%	67.3%	88.3%	91.7%	84.5%
36 .	4131	1959	759	6848	172559	409444	1155014	:1737017
	(734)	(214)	(161)	(735)	(20020)	(53410)	(191838)	(206285)
	58.1%	73.0%	96.4%	64.8%	74.9%	74.1%	97.7%	88_4%
37	2896	890	395	4181	94585	199774	1461127	1755486
	(702)	(182)	(90)	(737)	(16672)	(39524)	(228808)	(220612)
	72.9%	74.8%	94.9%	74.9%	74.5%	83.5%	96.5%	93.4%
38	1533*	740	361*	2633	61322	148253	428568*	638144
	(474)	(115)	(126)	(500)	(14131)	(28131)	(127647)	(146583)
	57.0%	77.3%	86.7%	64.8%	58.6%	76.3%	93.1%	84.0%
39	3227	618*	338*	4183*	88661	120718#	209369*	418748*
	(690)	(1180)	(216)	(1389)	(16518)	(231074)	(120490)	(220509)
	49.2%	77.5%	100.0%	54.4%	53.4%	80.8%	100.0%	79.8%
41	4155 (1015) 94.0%	510* (178) 100.0%	•••	4665 (1077) 94.6%	113291 (25274) 96.3%	81542# (35755) 100.0%	•••	194833# (48774) 97.4%
42	14905	1369	82*	16356	383692	233984	74830*	692506
	(1935)	(291)	(54)	(1957)	(51225)	(46306)	(49333)	(58300)
	74.4%	92. 4%	99.5%	75. 8%	78.7%	90.4%	100.0%	84.3%
45	2151*	590*	147*	2888*	57964*	109332±	264255*	431551
	(770)	(397)	(57)	(838)	(20678)	(75829)	(77656)	(102028)
	6 6. 4%	99.9%	100.0%	72. 6%	74.8%	100.0%	100.0%	95.7%
48	10603	808	34*	11445	324542	155308	70083*	549934
	(1710)	(168)	(21)	(1745)	(74003)	(37668)	(43687)	(92049)
	72.1%	89.6%	99.0%	73.25	76.2%	8 8.1%	100.0%	81.8%
49	7077	1699*	173*	8948	246278	404704*	146565*	797547
	(1655)	(556)	(99)	(1936)	(57811)	(151048)	(65566)	(190186)
	86.1%	91.2%	99.8%	87.3%	91.4%	95.1%	100.0%	94.8%
50	16697 (1860) 55.0%	1779* (483) 98.7%	•••	18476 (2014) 57.5%	410330 (55669) 65.1%	276561* (82009) 97.6%	•••	686891 (111770) 75.2%
51	5494 (1033) 60.3%	237* (237) 100.0%	•••	5731 (1138) 61.3%	115332 (27375) 62.3%	27013* (27013) 100.0%	•••	142345* (45437) 67.1%
5 5	10311 (2063) 54.5%	•••	•••	10311 (2063) 52.7%	194552 (44409) 63.0%	•••	•••	194552 (44409) 47.7%
72	9779 (1660) 47.4%	675* (190) 100.0%	•••	10455 (1698) 49.0%	214216 (33010) 56.4%	82220* (24190) 100.0%	•••	296436 (37219) 62.7%
73	9673	1059	269*	11001	236110	256141	264910*	757162
	(1609)	(187)	(138)	(1658)	(35959)	(45767)	(113487)	(124441)
	58.4%	71.1%	78.9%	59. 8%	56.0%	73.2%	80.5%	68.8%
75	18355 (2921) 70.1%	59* (60) 99.7%	•••	18413 (2925) 70.2%	295896 (52191) 71.6%	8238* (8380) 100.0%	* •••	304134 (52690) 72.2%
76	4241 (954) 43.5%	36* (45) 29.4%	•••	4277 (970) 43.3%	88181 (18763) 49.4%	12672* (15755) 52.1%	•••	100854* (27954) 49.7%
80	1894*	1766	2009	5670	81519	448227	2969976	3499721
	(607)	(263)	(315)	(600)	(18741)	(75551)	(368653)	(361883)
	66.7%	81.5%	97,5%	80.2%	80.2%	83.9%	98.3%	95.7%
ALL	278241	41110	8779	328131	7462282	8253597	11876372	27592252
	(8225)	(1021)	(418)	(8618)	(149622)	(163959)	(490896)	(567187)
	62.3%	83.0%	93.2%	64.9%	67.7%	84,4%	95.3%	83.0%

^{*}Standard error >25% of the estimate. The estimate may be unreliable. ... No facilities observed.

FIGURE IV - 126 WORKERS IN PLANTS WHICH HAVE A PREVENTIVE MAINTENANCE PROGRAM BY PLANT SIZE (NOES 1981-1983)







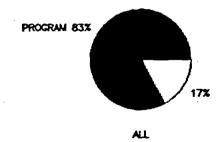


FIGURE IV - 127 PLANTS WHICH HAVE A SCHEDULED PREVENTIVE MAINTENANCE PROGRAM

(NOES 1981-1983)

