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CPWR "TECHNICAL" REPORT

Cpcn{uku"qh" Yqtm/Tgncvgf"
Uchgv{" (" J gcnvj" J c|ctfu"qh"Wptgrtgugpvgf"
Yqtmgtu"kp"vjg"Ktqp" Yqtmkpi "Kpfwvt{"
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Hgdtwct{"4232"

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Dtcf{"Dtcvejgt"
Twj"Twvvgpdgti"
Octkc"Qdcpfq"

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Ktqp" Yqtmgtu" Tgikpcn" Fkvtkev" Eqwpekn" ("Ktqp" Yqtmgtu" Nqecn" : 68"
Twj" Twvvgpdgti" ("Cuuqekcvgu"

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Í "4232."ERYT"ó"Vjg"Egpvgt"hqt"Eqpuvtwevkqp"Tgugcte j"cpf"Vtckkpi "

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vjg"Dwknfkpi"cpf"Eqpuvtwevkqp"Vtcfgu"Fgrctv o gpv."CHN/EKQ."cpf"ugtxgu"cu"
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"

Hqt"o qtg"kphqto cvkqp."xkukv"y y 0er y t0eqo 0

**ANALYSIS OF WORK-RELATED SAFETY & HEALTH HAZARDS OF UNREPRESENTED
WORKERS IN THE IRON WORKING INDUSTRY**

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CDUVTCEV"

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**ANALYSIS OF WORK-RELATED SAFETY
& HEALTH HAZARDS OF UNREPRESENTED WORKERS
IN THE IRON WORKING INDUSTRY**

EXECUTIVE SUMMARY

kp"422:."ERYT"cyctfgf"ctgugcte j" itcpv"vq"vjg"ktqp" Y qtmgtu" Tgikqpcn" Fkuvtkev"Eqwpekn" ("ktqp" Y qtmgtu" Nqecn" : 68" vq" cpcn{ |g" y qtm/tgncvfgf"uchgv{"cpf" jgcnvj" jc|ctfu"qh" wptgrtgugpvfgf" y qtmgtu" kp" vjg"ktqp" y qtmkpi" kpfwuvt{0""C swtxg{"qh" 8;" swgukqpu" y cu" fgxgnqrgf" y kvj"vjg"jgnr"qh" eqpuwnvcpvu" cv"Twvj"Twvvgpdgti" ("Cuuqekcvgu."Ipe0"kv" y cu"vtcpulcvfgf"ipvq"Srcpkuj"cpd" kpvgtxkgygtu" ygtg"vtckpgf"kp"uwtxg{"vgejpiqugu" cpf"KTD"rtkpekrrngu0""D{"{gctøu"gp"422;." kpvgtxkyu" ygtg"eqo"rngvgf" ykvj"87"Srcpkuj/urgcmkpi" ktqp" y qtmgtu" go rnq{gf"d{"39"fkhhtgtpv" eqo rcpkgu"kp"vjg" y guv"cpf"uqvwj y guv0""Uvwfgpvu"hto o"Uqvwjgtp"Ogvjqfkuv" Wpkxgtukv{"cuukvgf"kp" eqpfwevki" kpvgtxkyu"kp"vjg"Fcncu"l"Hqtv" Y qtvj"ctgc0"

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6"45 ' "qh"vjg"vqvcn0⁵

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hqtegu" cpf" j qnf" kp" uvcvke" rqukvkoku=" cpf" y qtm" cv" i tgc" v" j gki j vu" y j ing" eqpuvcpvn{ " gz rqugf" vq" vj g" gng o gpvu" uwe j" cu" tckp. " upqy. " keg. " y kpf. " cpf" v g o r gtcvwtg" gzv t g o gu0ö³⁴"" Oqtgqxgt. " ktqp" y qtmgtu" ctg" cv" jki j" tkum" hqt" y qtm/ tgnvcv f" dcem" fkuqtfgtu" cpf" atg" gz rqugf" vq" eqpuvcpv" vtr" cpf" hcm" jc| ctfu0³⁵"" Tguwnvu" htqo" qpg" uvwf{ " u j q y g f" v j cv. " kp" c f fkvk o p" v q" dcem" fkuqtfgtu. " t j g" o quv" eq o o qp" f qevt/ f k i p q u g f" o w u e w n q u m g n g v c n" f k u q t f g t u" y g t g" v g p d q p k v k u" * 3 ; ' +. " t w r v w t g f" f k u m" k p" v j e" d c e m" * 3 : ' +. " d w t u k v k u" k p" v j g" u j q w n f g t" * 3 7 ' +. " c p f" e c t r c n" v w p p g n" u { p f t q o g" * 3 4 ' +³⁶ " "

C" tgegpv" PKQUJ " gxcnwcvkqp" qh" ktqp" y qtmgtu" g z p q u w t g u" v q" Y O U F" t k u m" h c e v q t u" h q w p f" v j c v" v { k p g" t g d c t" c v" i t q w p f" n g x g n" w u k p i" r n k g r u" k p e t g c u g u" v j g" t k u m" q h" f g x g l q r k p i" j c p f/ y t k u v" c p f" n q y" d c e m" k p l w t k g u³⁷ " "

C" Ecpcfkcp" uvwf{ " d { " v j g" Eqpuvtwevkqp" Uchgv{ " C u u q c k c v k q p" q h" Q p v c t k q" h q w p f" v j c v" k p" Q p v c t k q. " t q f y q t m g t u" j c x g" c" j k i j g t" r t q r q t v k q n" q h" n q u v/ v k o g" o w u e w n q u m g n g v c n" k p l w t k g u" v q" v j g" d c e m" c p f" w r r g t" n k o d u" v j c p" c m" q v j g t" e q p u v t w e v k q p" v t c f g u" e q o d k p g f" c p f" v j g" v q v c n" e q u v" q h" v j g k t" n q u v/ v k o g" k p l w t k g u" c p f" v j g" c o q w p v" q h" v j g k t" v k o e" q h h" y q t k" c n u q" v q" d g" g t g c v g t" v j c p" h q t" c m" q v h g t" e q p u v t w e v k q p" v t c f g u" e q o d k p g f³⁸ " "

Ktqp" y qtm" ku" c o q p i" v j g" p q k u k u v" v t c f g u" c p f" y q t m" g p x t q p o g p v u. " y k v j" c x g t c i g" g z r q u w t g u" q x g t" ; 7" f D * C +. " u q" k t q p" y q t m g t u" c t g" c v" u k i p i h k e c p v" t k u m" q h" p q k u g" k p f w e g f" j g c t k n i" n q u u" k h" p q v" r t q r g t n { " r t q v e g v f" * g c t r n w i u. " g e t o w h h u. " c p f" e c p c n" e c r u + " v q" t g f w e g" u q w p f" t g c e j k p i" v j g" g c t +³⁹"" " "

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34ⁿⁿ Hqtfg." 4226=" Hqtfg." 4222=" Nkpfuvtq o " gv" cn0." 3 ; 96=" J ctv" cpf" Nkpm." 3 ; ; 3." ekvgf" kp" Hq tfg" O0" cp f" Dwe j j q n | " D0." öVcum" eqpvpgv" cpf" r j { ukecn" gt i q p q o ke" tkum" hcevqtu" kp" eqpuvtwevkqp" ktqpy qtm0ö" " 56<53 ; 6555." 42260""

35ⁿⁿ Hqtfg." O0" cp f" Dwe j j q n | . " D0." öVcum" eqpvpgv" cpf" r j { ukecn" gt i q p q o ke" tkum" hcevqtu" kp" eqpuvtwevkqp" ktqpy qtm0ö" " 56<53 ; 6555." 42260"

36ⁿⁿ Hqtfg." O0." Rwppgv." N0." cpf" Y gi o cp." F0." öRtgcxcngpeg" qh" Owuewnqumngvncn" Fkuqtfgtu" kp" Wpkqp" ktqpy qtmgtu. ö" . " Xqnw o g" 4." kuuwg" 6." Cduvtcev." Crtkn" 4227." cxckncdng" cv" [jwrcdllyyylkphqtocyqtnf0eqo132032;213767;8427;2;4;857.](#) " tgvtkxgf" Lcpwct { " 42320"

37ⁿⁿ W0U0" Fgrctv o gpv" qh" J gcnvj" cpf" J w o cp" Ugtxkegu. " Egpvgtu" hqt" Fkugcug" Eqpvtqn" cpf" Rtgcxgpkqp. " Pcvkqpcn" Kpuvkvwvg" hqt" Qeewrcvkqpcn" Uchgv{ " cpf" J gcnvj" * PKQUJ +. " PKQUJ " J gcnvj" J c | c t f " Gxcnwcvkqp" Tgrqtv<" I gpguku" Uvgn" Ugtxkegu. " Kpe0." Dcnvkoqtg." OF0" Ekpekppcvk." QJ." 4227." PKQUJ " J J G" Tgrqtv" 42256236864;98." cxckncdng" cv" [y y y 0 e f e 0 i q x l p q u j j j l g t g r q t v u l r f h u l 4 2 2 5 / 2 3 6 8 / 4 ; 9 8 0 r f h.](#) " tgvtkxgf" Lcpwct { " 42320"

38ⁿⁿ Xk." Rgvgt." J q p 0" D0UE0" * G t i q p q o k e u +. " O0" G p i 0. " R t q l g e v" E q q t f k p e v q t. " E U C Q. " ö T g d c t" V { k p i" O c e j k p g u" ö" R c t v" 4. ö" Eqpuvtwevkqp" Uchgv{ " O c i c | k p g. " X q n w o g" 3 6. " P w o d g t" 3. " U r t k p i" 4 2 2 5. " c x c k n c d n g" c v" [jwrcdllyyyleucq0qti1wrnqcfhkngulo0ciclkpglxqn36ppq31tgdct40jvo.](#) " tgvtkxgf" Lcpwct { " 4232 } V j k u" c t v k e n g" h q n n q y u" w r" q p" q p g" v j c v" c r r g e t g f" k p" q w t" Y k p v g t" 4 2 2 3 1 4 2 2 4 " k u u w g" * X q n w o g" 3 4. " P w o d g t" 6 + 0 _ "

39ⁿⁿ Gngev. J gU . o [Oc

Vjg" o clqt"uchgv{"eqpegtpu."hqt"qxgt";2"rgtegpv"qh"kpvtgtxkg y ggu." ygtg<"unkru."vtkru."cpf"hcnu="hcnu"
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o qxg o gpvu"cuuqekcvgf" ykvj" kpetgcu gf"tkum"qh"fgxgnqrkpi" c" jcpf." y tkuv."qt" gndqy" fkuqftgtõ""Vjg"
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y qtmgtu"vq"ugtkqwu"tkum"ncevqtu" hqt" fgxgnqrkpi" Y OUFu"qh"nqy"dcem"cpf"vjg"wr rgt"nk o du⁴⁹""

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tgeqo o gpfcvkqpu" kpenwfg⁴:"

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Rtqxfkpi"tguv"rgtkqfu" y kvj" y cvgt"dtgcmu"
Rtqxfkpi"eqqn"ctgcu" hqt" wug"fwtkpi" dtgcm"rgtkqfu⁰""

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30"" Ftkpmkpi" Ycvgt"qp"Ukvg⁰"" Ocp{"qh"v jg"tgurqpfgpvu."35"rgtegpv." fkf"pqv"tgegkxg"ftkpmkpi"
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40"" Dtgcmu⁰"" Oqtg"vjcp"jcnh"uckf"vjgkt"etgyu" fkf"pqv"vcmg"tguv"dtgcmu⁰""Qxgt":2"rgtegpv"uckf"
vjcv" dtgcmu" ygtg"pqv"rckf" hqt"d{"vjg" g o rnq{gt⁰"" Ugxgcn"tgurqpfgpvu" fkf"pqv" igv"nwpej"dtgcmu⁰""
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rgtkqfu⁰""Uq o g" ygtg"pqv"rckf" hqt"qxgtvk o g⁰""

Qpg" y qtmgt"uckf<""

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49"" PKQUJ" J gcnvj" J c|ctf"Gxcnwcvkq" Tgrqtv." J GVC"%4225/2368/4;980

D. Safety and Health Awareness and Concerns about Work

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vtgcv o gpv0"

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E. Benefits

Nguu"vj cp"42" rgtegpv"tgegkxgf"j gcnvj"ectg"dgpgh kvu"htq o "vj gkt"g o rnq{gt"cpf"qpn{"qpg"rgtuqp"j cf"
j gcnvj" ectg"vj cv"eqxgtgf" vj g"gpvktg" hc o kn{0" "Qpg"vtckpgg"eq o o gpvfg" ö

öö""

Hqtv{/hxxg" rgtegpv"qh"vj qug"y kvj"j gcnvj"ectg"eqxg tci g"j cf"pq"eq/rc{0""Qh"vj qug"y j q"y gtg" kplwtgf"
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F. Workers' Rights and Training

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ckf"vj g{"fkf"pqv"j cxg"ceqr{0""Ugxgpv{" rgtegpv" j cf"pqv"tgegkxgf"cp{ qtkgpvcvkqp" qt"vtckpki"
o cvgtkenu"htq o "vj g"eq o rcp{"cpf" o qtg"vj cp8 82" rg

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BIBLIOGRAPHY

C o g t k e c p " H g f g t c v k q p " q h " N c d q t / E q p i t g u u " q h " K p f w u v t k c n " W p k q p u " * C H N / E K Q + . "
." C r t k n " 4 2 2 : 0 "

C o g t k e c p " H g f g t c v k q p " q h " N c d q t / E q p i t g u u " q h " K p f w u v t k c n " W p k q p u " * C H N / E K Q + . "

C w i w u v " 4 2 2 7 0 "

C k | g p o c p . " P w t k v j . " ð J c t u j " T g y c t f " h q t " J c t f " N c d q t . " . " F g e g o d g t " 4 ; . " 4 2 2 4 0 "

E R Y T " ó " V j g " E g p v g t " h q t " E q p u v t w e v k q p " T g u g c t e j " c p f " V t c k p k p i . " . "
u . " H q w t v j " G f k v k q p . " F g e g o d g t " 4 2 2 9 . " r t q f w e g f " y k v j " . "
u w r r q t v " h t q o " v j g " P c v k q p c n " K p u v k v w v g " h q t " Q e e w r c v k q p c n " U c h g v { " c p f " J g c n v j " i t c p v " p w o d g t " Q J 2 2 : 5 2 9 . "
c x c k n c d n g " c v " [j w r < l l e r y t 0 e q o l r f h u l E D ' 4 2 6 v j ' 4 2 G f k v k q p l H q w t v j ' 4 2 G f k v k q p ' 4 2 E q p u v t w e v k q p " ' 4 2 E j c t v ' 4 2 D q q m ' 4 2 h k p c n 0 r f h . " t g v t k g x g f " H g d t w c t { " 4 2 3 2 0 "](#)

F q p i . " Z k w y g p . " T k p i g p . " M p w v . " O g p . " [w t q p i . " c p f " H w l k o q v q . " C n k u u c . " ð O g f k e c n " E q u v u " c p f " U q w t e g u " q h " R c { o g p v " h q t " Y q t m / T g n c v g f " K p l w t k g u " a o q p i " J k u r c p k e " E q p u v t w e v k q p " Y o t m g t u . ð " . " 6 ; * 3 4 + < 3 5 8 9 / 3 5 9 7 . " 4 2 2 9 . " e k v g f " k p " E R Y R . "

G n g e v t q p k e " N k d t c t { " q h " E q p u t t w e v k q p " Q e e w r c v k q p c n " U c h g v { " c p f " J g c n v j " * g N E Q U J + . F t w " U c j c k . " E q p u v t w e v k q p " U c h g v { " C u u q e k c v k q p " q h " Q p v c t k q , ð J g c t k p i " E q p u g t x c v k q p " " * R c t v " q h " E q p u v t w e v k q p " U c h g v { " C u u q e k c v k q p " q h " Q p v c t k q " O c i c | k p g . " C w w w o p " 4 2 2 2 + . " c x c k n c d n g " c v " [j w r < l l y y y 0 g n e q u j 0 q t i l g p ! f q e w o g p v l 6 4 7 l f 2 2 2 6 3 8 l j g c t k p i / e q p u g t x c v k q p 0 j v o n . " t g v t k g x g f " H g d t w c t { " 4 2 3 2 0 " "](#)

APPENDIX 1

ANALYSIS OF WORK-RELATED SAFETY & HEALTH HAZARDS OF UNREPRESENTED WORKERS IN THE I

4. How many years of construction experience do you have in the U.S?

"
"

	#	%
3/5"	9	10.3
6/8"	43	46.06
9/32"	54	59.04
33/37"	37	39.06
Other	33	34.0
		/
Total Responding	86	99.9

"
"

5. How do you get paid?

"
"

	#	%
Hourly	89	106.9
Other	38	45.05
Total Responding	83	100.0

A. WORKING CONDITIONS

6. Did you work somewhere else previously doing the same type of work?

"
"

	#	%
Yes	93	107
No	36	41.7
Total Responding	85	100.0

"
"

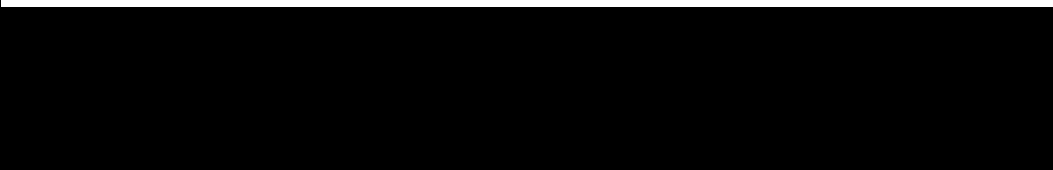
7.7.

11.

14. Do you have a lunch break?

"
"

	#	%
[gu"	9;	;30;
Pq"	8	902
Uq o gv k o gu"	3	304
Total Responding	86	100.1



17. Have you ever felt threatened by any supervisor or foreman of your current employer?

"
"

	#	%
[gu"	9	:03
Pq"	9;	;30;
Total Responding	86	100.0

"
"

18. Have you ever been warned to "be careful" while working with products such as paint, oil, grease, chop saw blades, gasoline or other chemicals etc.?

"

	#	%
[gu"	85	9505
Pq"	45	4809
Total Responding	86	100.0

"
"

19. Are you required to use electric-powered tools at work?

"

	#	%
[gu"	53	5708
Uq o gvk o gu"	3	303
Pq"	77	8504
Total Responding	87	99.9

20. Are you required to use gas-powered tools at work?

"
"

	#	%
[gu"	99	: :07
Pq"	32	3307
Total Responding	87	100.0

"
"

<i>Total Responding</i>	<i>87</i>	<i>100.0</i>
-------------------------	-----------	--------------

"

"

22. If yes,"

25. Have you ever been given formal instruction as to how to use your tools?

"
"

	#	%
[gu"	6:	770:
Pq"	5:	6604
Total Responding	86	100.0

"
"

26. Are the tools generally in good condition?

"
"

	#	%
[gu"	76	8809
Wuwcm{ "	3	304
Uq o gvk o gu"	6	60;
Pq"	42	4609
Fqp)v"mpq y"	4	407
Total Responding	81	100.0

27. Are there any tools that the company does not provide, that you need to do your work?

"
"

	#	%
[gu"	45	4:0:

29. Have you ever asked your employer to provide tools that would make your job easier or safer?

"
"

	#	%
[gu"	48	55.05
Pq"	74	88.09
Total Responding	78	100.0

"
"

30. If so, did the employer give you those tools?

"
"

	#	%
[gu"	38	86.02
[gu."dww"vjg{"ejctig" og"hqt"kv"	3	6.02
Pq"	:	54.02

employer?"

#	%
4	507
45	6206
52	7408
69	:407
5:	8809
42	5703
33	3;05
6:	:604
;	370:
57	-

7?

#	%
5	50:
38	" 4202

5

"

34. Have you ever been fined for not wearing safety equipment by your current employer?

"
"

	#	%
[gu"	;	32.07
Pq"	99	: ;.07
Total Responding	86	100.0

"
"

35. If you use scaffolds, are they properly constructed?

"
"

	#	%
[gu"	3;	6/ 3;

38. Which of the following pose a threat of injury to you on this job?

"
"

	#	%
Hcmnu"htq o "jgki jv"	:8	;:0;
Unkru."vtrku."hcmnu"	:9	32202
Hcmkpi "qdlgevu"	:3	;503
Jqv"Ogvnu"	:3	;503
Ko rncg o gpv"	:2	;402
Oqxkpi "o cejkpgt{ "	:2	;402
Eqphkpgf"urceg"	88	970;
Gpgti {"uqwteg"	8:	9:04
Pqkug"cpf"xkdtcvkqp"	58	6306
Hktg"cpf"gzrnqkqp"	39	3;07
Kpjncdng"ci gpvu"	34	350:
Umkp"eqpvcev"ykvj"ejgokecnu"	39	3;07
Cudguvqu"	32	3307
Ngef"	32	3307
Gtiq"	3	303
Tcfkcvkqp"	7	709
Total Responding	87	-

39. Have you or a co-worker ever been hurt on the job, causing lost work days from the job?

	#	%
[gu"	44	48.0
[gu"kp"cpqvjgt"eq o rcp{ "	3	3.0
Pq"	7	9.0
Total Responding	82	100.0

40. Briefly describe the accident.

Dtqmgp"qqv"K"dtqmg"c"qqv"
 Uq o g"eq/y qtmgtu"ewv"vjgkt"hkpi gtu"qhh."cpf"cpqvjgt"y qtmgt"dtqmg"c"qqv"
 K" jcxg"uggp"eq/y qtmgtu" *pgy"qp"vjg"lqd+" i gv"ukem" y kvj "c" jgc v/tgncvfg"knmpguu0"Vjg{ "y gtg"ugpt"
 jq o g"cpf"vjg{ "pgxgt"ec o g"dcem0"
 Eq/y qtmgtu" y gtg"v{kp i"wr."cpf"vjg"}knng i kdg" y qtf_"dtqmg"cpf"etwujgf"v y q"eq/y qtmgtu0" J g"
 flf"pqv"y kvpguu"y jcv"jcr rpggf."dwv"qvjgt"eq/y qtmgtu"vqnf" jk o 0"
 Dtqmgp"tki jv"ct o l"Btqmgp"nghv"ct o "

o
 o o o

G ô PÀW
 € p ð 0 P € p
UB Y †

44.

47. Do you have to pay for any part of your healthcare coverage?

	#	%
[gu"	35	68.06
P q"	35	68.06
K" f qp)v"mpqy "	4	9.03
Total Responding	28	99.9

ef 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Are you required to notify in the event of an accident?

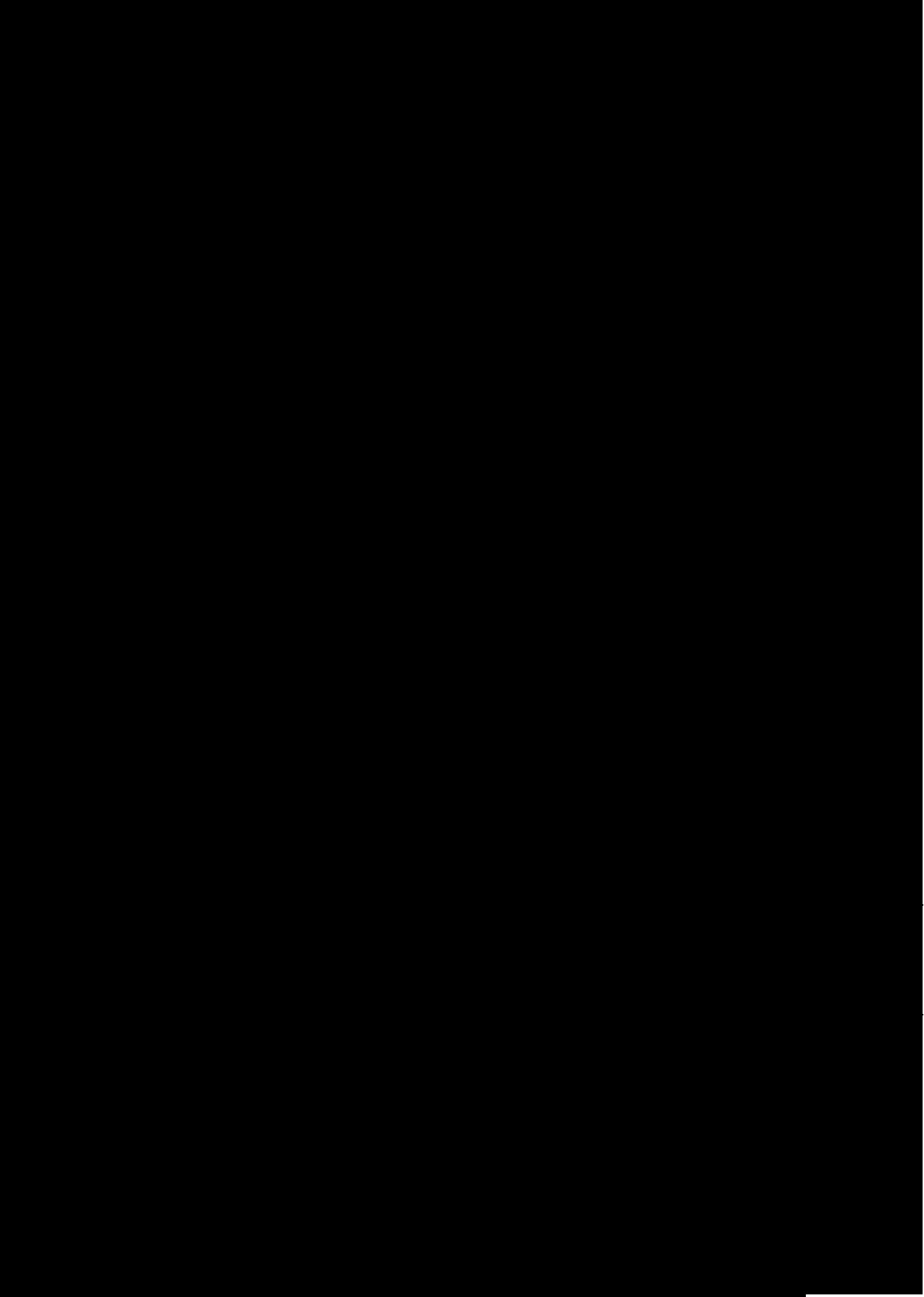
	#	%
gu"	72	86.0;
q"	36	3.04
qv"uwtg"	35	38.0;
total Responding	77	100.0

54. With this employer, have you ever had health and safety training?

"

	#	%

[gu"



60. Were you given any kind of safety manual?

"
"

	#	%
[gu"	55	5:0:
Pq"	74	8304
Total Responding	85	100.0

"
"

61. Do you know what an MSDS sheet is?

"
"

	#	%
[gu"	4:	540;
Pq"	79	8903
Total Responding	85	100.0

62. Have you ever been told where the company stores those sheets?

"
"

	#	%
[gu"	39	4204
Pq"	89	9;0:
Total Responding	84	100.0

"
"

63. Has the company ever told you that you may review the information on these MSDS sheets?

"
"

	#	%
[gu"	3:	420;
Pq"	8:	9;03
Total Responding	86	100.0

fety or orientation manual that the

%
4;08
9206
100.0

that your employer gave to you?

%
5402
8:02
100.0

