



# ERNEST ORLANDO LAWRENCE BERKELEY NATIONAL LABORATORY

## Healthy Efficient New Gas Homes (HENGH) Field Study Protocol

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Environmental Technologies Area

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# Healthy Efficient New Gas Homes (HENGH) Field Study Protocol "

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Y cp{wT0Ej cp.'I cpi /Ugqp'Mko .'Dtgw'E0Upi gt.'Kkp"U0Y cmgt"cpf'O cz"J 0Uj gto cp"

"

"

"

Tgukf gpvkn'Dwrf lpi "U{uwo "I tqw "  
Ncy tgpeg'Dgtngg{ "P cvkqpcn'Ncdqtcvqt {"  
Lxpg."4238"

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Hki wtg"5"Tpici g'j qqf 'f guetk v'kqp	59"
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Hki wtg"8"Xgpv'uv'ng	63"
Hki wtg"9"Qpugv'r n'wi 'h'qcf 'f c'c'iqi i gt	64"
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Hki wtg"33"gzco r ng'qh'v'j g'r j qvq'qh'gzj cwuv'hcp'y kj 'v'j g'Fi ki k'Ugpug' Cpgo qo g'vgt	68"
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Hki wtg"4: 'J qu'gu'h'qt'dm'y g't'f qqt	103"
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Hki wtg"52"gzco r ng'qh'v'V'eqppgev'k'p'd'g'v'g'p'w'd'gu'c'p'f 'v'j g'FI 922	104"
Hki wtg"53"Qxg'tcm'g'zr g't'k'o g'p'v'c'n'ug'v'k'p'i 'y kj 'w'd'gu'c'p'f 'v'j g'FI 922	104"
Hki wtg"54"F gncS 'u'q'h'y c't'g'lp'uc'm'v'k'p'p	105"
Hki wtg"55"U'c't'v'v'j g'F gncS 'u'q'h'y c't'g	105"
Hki wtg"56"U'g'w'r 'v'j g'F gncS 'u'q'h'y c't'g	106"
Hki wtg"57"U'ec'p'h'qt'r q't'v'ul'f g'x'k'eg'u'c'v'v'j g'F gncS 'u'q'h'y c't'g	106"
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Hki wtg"62"gzco r ng'qh'v'j g'F v'ev'D'ru'v'gt 'h'c'p	114"
Hki wtg"63"gzco r ng'qh'v'c'w'cej g'f 'h'rg'z'f v'ev'v'q'ec'r w't'g'd'q'z	115"
Hki wtg"65"V'y q'v'f r g'u'q'h'v'f r k'ec'n'c'w'k'e'lp'uc'm'v'k'p'p	118"
Hki wtg"66"Co r r'k'h'ny 'u'g'p'u'q't'ec'r'k'd't'c'v'k'p'p'ew'x'g	119"
Hki wtg"67"gzco r ng'qh'v'c'f l'w'uv'g'f 'v'j g'h'rg'z'f v'ev'v'q'v'j g'F v'ev'D'ru'v'gt 'h'c'p	120"
"	

# Healthy Efficient New Gas Homes (HENGH) Field Study Protocol

"

Tgukf gpvkcnDwkrf kpi "U{ uvg0 "I tqwr "  
Ncy tgepeg"Dgtngrg{ "P cvkqpcnNcdqtcvqt { "  
Cr tki3."4238"

"

Vj ku'hkgrf "r tqvqqrnf guetkdg'u'j g'f gvcklr tqegf wtgu'ht "eqmgev kpi "kpf qqt'ck'ts wcrk'f."o gej cplecni'  
xgprvkrvqp."cpf 'tgrvgrf 'r ctco gvgtu'kp"322"qeevr kgrf "Ecrkhtpkc"j qo gu'vj cv'y g'g'dwkn'vq"422: "Vkrng"  
46"ucpf ctf u0Vj g'r tqvqqrncuq'kpenmf gu'r tqegf wtgu'ht'v'j g'hkgrf "vgco "vq'r tgr ctg'ht'v'j g'kp/j qo g"  
xkuku."cpf 'hqmqy "vr 'y qtn'vq'dg'r gthqto gf "d{ 'v'j g'hkgrf "vgco ."uwej "cu'w'rqcf kpi "f cv'cpf "ugpf kpi "  
uco r ngu'vq'NDP N'ht'ej go kcrn'cpcn'uku0"

"

Vj g'hkgrf "vgco ."hgf "d{ "I cu'Vgej pqmji { "kpvkwwg"RI VK'."o c{ 'xkuku'c'j qo g'vr "vq'v'j tgg'vko gu0I VK'  
y kn'eqqtf kpcv'v'j g'kp/j qo g'xkuku'y kj "i cu'wkrk'f "uvch'u'htqo "Rcelh'e'I cu'("Grgv'k'RI ( G'="cpf "  
Uqwj gtp'Ecrkhtpkc'I cu'Ego r cp{ "UqEcnI cu'0I VKy kn'f guetkdg'v'j g'ueqr g'qh'v'j g'uwwf { ."tkumu."  
cpf "hkpcpekn'kpegp'v'xgu'vq'r ct v'ekr cpw'd{ "i qkpi "qxtg'v'j g'eqpugpv'htqo "qp'v'j g'r j qpg0Chgt'v'j cv'c"  
i cu'wkrk'f "uvch'y kn'uej gf wrg'v'j g'htuv'xkuku'y kj "v'j g'uwwf { "r ct v'ekr cpv0Rtkqt "v'j g'htuv'xkuku'I VK'  
y kn'phqto "uwwf { "r ct v'ekr cpv'qp"j qy "o cp{ "hkgrf "xkuku'vq'gzr gev'cpf "y j gp0"

"

## (1) Pre-Visit Preparation

"

- \*c+ Cuugo drg'kphqto cvkqp'cdqww'v'j g'uwwf { "j qo g"
- \*k+ Eqpvcev'kphqto cvkqp'qh'uwwf { "r ct v'ekr cpv"
- \*kk+ Tgeqtf "qh'eqpugpv'eqpxgtucv'kqp"pco g'qh'uwwf { "r ct v'ekr cpv'cpf "f cv'g'qh'  
eqpxgtucv'kqp+"
- \*kkk+ Rtkpv'htqo "r rcp'qh'j qvug"o wkr ng'eqr kgu."kpenmf g'o ktqt "ko ci g'ht"  
eqpxgpkgep+"

"

- \*d+ Cuugo drg'htqo u'cpf "gs vkr o gpv"
- \*k+ Uwwf { "Eqpugpv'htqo "cpf "Eqpugpv'vq"Xgprvkrvqp"Ej cpi gu"
- \*kk+ Eco gtc."pqvgr cf ."cpf "o kue0uwr r rkgu"pggf gf "ht"i cu'cr r rkcpeg'uchgv' "vguv"  
cpf "y cm'v'j tqwi j "
- \*kkk+ Ncf f gt."emv'j lt w' "vq'r tqvgev'htqtkpi ."r tgr ctg'vq'ceegu'cwke"

"

## (2) Gas Appliance Safety Test / Walk-Through

"

- \*c+ C'I VKI'RI ( G'I"UqEcnI cu'tgugctej gt'y kn'kf gpvk'f "v'j g'uwwf { "r ct v'ekr cpv'y kj "  
y j qo "I VKj cu'j cf "v'j g'eqpugpv'eqpxgtucv'kqp0Vj ku'tgugctej gt'y kn'f q"v'j tqwi j "v'j g"  
Uwwf { "Eqpugpv'htqo."y kj "v'j g'uwwf { "r ct v'ekr cpv0Uwwf { "r ct v'ekr cpv'y kn'iki p'v'q "  
eqr kgu'qh'v'j g'htqo ."qpg'eqr { "vq'tgwtp'vq'tgugctej gt."cpf "v'j g'qv'j gt'eqr { "vq'nggr "  
htq'tghgtgep0"

"

\*d+ Vj g'tgugctej gt'y km'cun'ij g'uwwf { 'r ctvlekr cpv'kh'ij gtg'ctg'r qv'p'v'cn'ij c| ctf u'qt" qv'j gt'y ctp'kpi u'\*g'0 O'r gwu." { qwpi 'ej kf tgp. 'h'cwm' { 'g'ngextle'q'w'ngv+'v'j cv'ij g'h'kgrf" vgo 'uj qwf "dg'cy ctg'qh'ij j gp'y qtnkpi 'lp'ij g'j' qo g0"

"

\*e+ Vj g'tgugctej gt'y km'g'zr r'clp'ij g'ueqr g'qh'i cu'cr r r'k'cpeg'uch'g'v' 'vgu' \*PI CV+'v'ij g' uwwf { 'r ctvlekr cpv'0"

"

\*f+ I cu'ugtxleg'v'gej plekcp'y km'r gthqto "PI CV0"

\*k- Rtqxkf g'uwwf { 'r ctvlekr cpv'ij kj 'P qv'leg'qh'Wpuc'v'k'c'ev'qt { 'Eqpf k'k'qpu'kh' cr r r'k'c'drg'0"

\*kk- GPF "QH'UVWF [ 'kh'ij qo g'h'q'wpf "v'dg'wpuch'g'v'ij q'tm'lp. "qt'kh'ij gtg'ctg" eqpf k'k'qpu'ij cv'ij km't'gs w'kt'g'c' h'q'm'ij /w' 'x'k'k'v'q' t'gr ckt'0Vj g'tgugctej gt" y km'g'zr r'clp'ij g'uwwf { 'r ctvlekr cpv'ij cv'ij gk' r' ctvlekr c'v'k'p'ij km'g'p'f'0' Uwwf { 'r ctvlekr cpv'ij km't'ge'g'k'g'&70V'y q'eqr k'g'u'q'h'ij g' T'ge'q'tf "q'h'k'p'eg'v'k'g' R'c'f'0' g'p'v'ij kj "dg'uki p'gf' d' { 'v'ij g'uwwf { 'r ctvlekr cpv'ij cp'f'ij g'tgugctej gt. "q'pg' eqr { 'v'ij g'w'p'v'ij g'tgugctej gt. "cp'f'ij g'q'ij gt'eqr { 'v'ij h'g'gr' h'q't'g'ht'g'peg'0"

"

\*g+ H'q'm'ij "Y c'm'ij t'q'w'ij j "cp'f' "O'gej c'p'le'cn' X'g'p'v'k'c'v'k'p' U'f' u'go 'E'j g'e'm'k'u'0Vj g' t'gugctej gt'y km'g'zr r'clp'ij g'uwwf { 'r ctvlekr cpv'ij cv'ij g'y km'o c'ng' q'd'ug't'x'c'v'k'p'u' \*v'c'ng' p'q'v'g' q'h' h'q'ec'v'k'p. "o c'ng' b' q'f' g'n' cp'f' "eq'p'f' k'k'q'p' +cp'f' "v'c'ng' r'j' q'v'q'u'q'h'ij g'gs' w'k' o' g'p'v'ij cr r r'k'c'pegu' \*u'gg' c'nu'q' N'k'u'v'q'h' R'j' q'v'q'u'v'ij "V'c'ng' +0Vj g'tgugctej gt'y km'cun'ij uwwf { " r' ctvlekr cpv'ij h'q't' w'ug't' o' c'p'w'c'u'q'h'ij g'gs' w'k' o' g'p'v'ij cr r r'k'c'pegu. "cp'f' "v'c'ng' r'j' q'v'q'u'q'h'ij go 'k'h'c'x'c'k'c'drg'0"

"

\*h+ Vj g'tgugctej gt'y km'eq'p'f' w'e'v'c'y c'm'ij t'q'w'ij j 'y' k'ij 'ij g'uwwf { 'r ctvlekr cpv'ij v'k'f' g'p'v'k'h' { "ij g'h'q'ec'v'k'p'u'q'h'ij g'cd'q'x'g'gs' w'k' o' g'p'v'ij cr r r'k'c'pegu'0F' w'k'p'ij 'ij g'y' c'm'ij t'q'w'ij j . 'ij g' t'gugctej gt'y km' "

\*k- K'g'p'v'k'h' { "u'w'k'c'drg' h'q'ec'v'k'p'u' h'q't' r' r'c'k'p'ij 'ij g'ICS' l'p'u't'w'o' g'p'v'k'p'ij g'o' c'k'p' r'k'x'k'p'ij 'ur' c'eg. "o' c'u'v'g't' d'g'f' t'q'q'o' . "cp'f' "q'w'f' q'q't'0"

\*kk- G'z'r' r'clp'ij g'uwwf { 'r ctvlekr cpv'ij g'r' r'c'ego' g'p'v'q'h' u'g'p'u'q't'u'v'ij "o' q'p'k'q't' w'ug'q'h' eq'q'm'q'r' cp'f' "q'x'g'p. "h'k'g'r' r'c'eg. "t'c'p'ij g'j' q'q'f' . "e'q'ij' g'u'f' t' { g't. "g'z'j' c'w'u'v'k'p. "cp'f' " e'g'p't'c'n'l' h'q't'eg'f' "c'k' u'f' u'go' 0"

\*kk- G'z'r' r'clp'ij g'uwwf { 'r ctvlekr cpv'ij cv'ij q'r' g'p'k'p'ij l'eq'u'k'p'ij "q'h'f' q'q't' h'q'q'o' "j' q'w'ug'v'ij i' c't'c'ij g'cp'f' "r' c'v'k'q'f' q'q't' \*u'v'ij km'd'g' "o' q'p'k'q't' g'f' 0"

\*kx+ G'z'r' r'clp'ij g'uwwf { 'r ctvlekr cpv'ij cv'ij g'h'q'm'ij k'p'ij "uj' q'w'f' "p'q'v'd'g' w'ug'f' "f' w'k'p'ij "ij g'q'p'g'y' g'g'n'io' q'p'k'q't'k'p'ij "r' g't'k'q'f' <y' l'p'f' q'y' u. "y' j' q'ng'j' q'w'ug' h'c'p. "cp'f' " w'p'x'g'p'g'f' "e'q'o' d'w'v'k'p'ij cr r r'k'c'pegu'0"

"

\*i+ Vj g'tgugctej gt'y km'eq'p'h'k' o' 'ij cv'g'u'g'p'v'k'c'n'eq'o' r' q'p'g'p'u'q'h'ij g' "o' g'ej c'p'le'cn' x'g'p'v'k'c'v'k'p' u'f' u'go "ct'g'q'r' g't'c'v'k'p' \*h'q'm'ij "Y c'm'ij t'q'w'ij j "cp'f' "O'gej c'p'le'cn' X'g'p'v'k'c'v'k'p' U'f' u'go 'E'j g'e'm'k'u'+0"

\*k- K'ij'p'eg'g'u'c't' { . "f' k'ue'w'u' cp'f' "q'd'v'k'p' uwwf { 'r ctvlekr cpv'ij cr r r' t'q'x'c'n' i' w'k'p'ij " Eq'p'ug'p'v'ij "X'g'p'v'k'c'v'k'p' "E'j' c'p'ij g'u' h'q't' cp'f' "e'j' c'p'ij g'u'v'ij cv'ij p'g'g'f' "v'ij d'g' "o' c'f' g' f' w'k'p'ij "ij g'q'p'g'y' g'g'n'io' q'p'k'q't'k'p'ij "r' g't'k'q'f' \*g'0'0' "g'z'j' c'w'u'v'k'p'ij cv'ij cu'd'g'g'p' "

wtpgf "qhh'y kn'pbgf "vq'dg"qp-0C un'uwwf { 'r ct v'ekr cpv'vq'uki p'y q'eqr lgu'qh' y j g'hqto . 'cpf 'i kxg'qpg'eqr { 'hqt'y j g'uwwf { 'r ct v'ekr cpv'vq'nggr 0"

\*k+ GP F "QH'UVWF [ 'kh'o gej cpl'ecri'xgp'vkr'v'kqp'u{ ugo 'ku'kpqr gtc'drg. "qt'kh' uwwf { 'r ct v'ekr cpv'y kn'p'q'v'ci tgg'vq'y j g'p'geguuct { 'ej cpi g'u't'gs wkt gf 0Vj g" t'gugctej gt'y kn'g'zr m'kp'vq'y j g'uwwf { 'r ct v'ekr cpv'y cv'yj gkt 'r ct v'ekr cv'kqp" y kn'g'pf 0Uwwf { 'r ct v'ekr cpv'y kn't'ge'g'kxg"&970Vy q'eqr lgu'qh'y j g'T'ge'q'f "qh' K'eg'p'v'kxg'Rc { o gpv'y kj 'dg'uki pgf "d { 'y j g'uwwf { 'r ct v'ekr cpv'cpf "y j g" t'gugctej gt. "qpg'eqr { 'vq't'g'wtp'vq't'gugctej gt. "cpf 'y j g'q'v'j gt'eqr { 'vq'nggr " hqt't'ghgt'gpeg0

"

\*j+ Vj g't'gugctej gt'y kn'o cng'c'h'q'qt'r r'p'ungvej "qh'y j g'j q'wug'\*ugg'cnuq'N'ku'v'qh'Vj kpi u' vq'o ctn'q'p'H'q'qt'R'cp-0'

"

\*k+ Vj g't'gugctej gt'y kn'le'q'ph'kto "y j gp'y j g'p'gz'v'x'kuk'y kn'le'q'ewt'kh'k'j cu'd'ggp'r t'g/ ctt'cpi gf. "qt'g'zr m'kp'vq'y j g'uwwf { 'r ct v'ekr cpv'y cv'ulj g'y kn'd'g'eq'p'ce'vgf "vq'ctt'cpi g" y j g'p'gz'v'x'kuk'y kj kp'5'f'c { u0"

**(3) Preparation of IAQ Instruments and Activity Sensors**

"

\*c+ Ej gem'ecr'k'd't'evg. "cpf 'r t'gr ct'g'ICS 'k'p'ut'wo gpw'cpf "ce'v'k'k'v' { 'ugpu'qtu'c'h'gy "f'c { u" r'k'qt'vq'y j g'q'p'g/y ggm'o q'p'k'q't'k'pi 'r g't'k'q'f 0'

- \*k+ Hq'm'y "Rt'g/X'kuk'Vj gem'qh'RO "k'p'ut'wo gpw'"
- \*k+ Hq'm'y "Rt'g/X'kuk'Vj gem'qh'E'Q4 "k'p'ut'wo gpw'"
- \*k+ Hq'm'y "Rt'g/X'kuk'Vj gem'qh'P'Q4 "k'p'ut'wo gpw'"
- \*k+ Hq'm'y "Rt'g/X'kuk'Vj gem'qh'H'q'to c'nf'g'j { f'g' "k'p'ut'wo gpw'"
- \*x+ Hq'm'y "Rt'g/X'kuk'Vj gem'qh'F'c'v' "N'qi i'g'tu'"
- \*xk+ Hq'm'y "Rt'g/X'kuk'Vj gem'qh'R'cu'k'x'g' "U'co r'ng'tu'"

**(4) Setup IAQ Instruments and Activity Sensors**

"

\*c+ C't'gugctej gt'y kn'le'q'ph'kto "y kj 'y j g'uwwf { 'r ct v'ekr cpv'v'q'ec'v'k'p'u'qh'y j g't'g'c'k's w'c'k'v' { 'k'p'ut'wo gpw'y kn'd'g'r r'eg'f 0'

- \*k+ Q'w'f'q'q't"
- \*k+ O'c'k'p'k'p'f'q'q't'r'k'k'k'pi 'ur'c'eg'\*'g'0 0'r'k'k'k'pi . 'f'k'k'k'pi . "qt'i t'g'cv't'q'q'o +"
- \*k+ O'c'w'g't'd'g'f't'q'q'o "
- \*k+ Q'y'g't'd'g'f't'q'q'o u'\*'w' "vq'5+ "

"

\*d+ C't'gugctej gt'y kn'j' c'p'f "y j g'h'q'm'y k'pi 'h'q'to u'vq'uwwf { 'r ct v'ekr cpv'v'

- \*k+ Q'ee'w'c'p'e { 'c'p'f "k'p'f'q'q't' "C'e'v'k'k'k'g'u'F'c'v' "N'qi "'
- \*k+ 4237 "E'c'r'k'q't'p'k'c' "P'g'y "J'q'o'g'u'U'w't'x'g'f' "

"

\*e+ T'gugctej g't'u'y kn'k'f' g'p'v'k'h' { 'c'p'q'w'f'q'q't' "r'ec'v'k'p' "c'p'f "u'g'v'w'r "q'w'f'q'q't' "c'k's w'c'k'v' { 'k'p'ut'wo gpw'0'

- \*k+ Hq'm'y "U'g'w'r "q'h'Q'w'f'q'q't' "RO "k'p'ut'wo gpw'"

\*k+ Hqmry "Uk g/d{/Uk g'Ego r ctluqp"qh'Owf qqt"cpf "kpf qqt"RO "kput wo gpwu"

"

\*f+ Tgugctej gtu'y kn'kpuvcm'y g'hqmry kpi 'ugpuqtu'vq'o qpkqt 'y g'wug'qh'i cu'  
cr r rkcpegu'cpf 'o gej cplecni'xgpvkr'vkap<

\*k+ Hqmry "Tcpi g'J qqf "Wug'F cvc'Nqi i kpi "

\*k+ Hqmry "Eqqmqr "Wug'F cvc'Nqi i kpi "

\*k+ Hqmry "I cu'Hkt gr rceg'Wug'F cvc'Nqi i kpi "

\*kk+ Hqmry "Emvj gu'F t { gt "Wug'F cvc'Nqi i kpi "

\*kx+ Hqmry "Gzj cwuv'Hcp'Wug'F cvc'Nqi i kpi "

\*x+ Hqmry "Uwr r n' 'Ck' 'kpcng'F cvc'Nqi i kpi "

\*xk+ Hqmry "Egpt'cni'Hqtegf "Ck'Wug'F cvc'Nqi i kpi "

\*xkk+ Hqmry "F qqt "Wukpi "Ucvg'F cvc'Nqi i kpi "

"

\*g+ Tgugctej gtu'y kn'r w'MGGR'Y R F QY U'ENQUGF 'ncdgnu'qp'cm'wugcdng'y kpf qy u'  
vq'tgo kpf 'uwwf { 'r ct'vkr cpw'vq'nggr 'y kpf qy u'emugf 'f wtkpi 'y g'qpg/y ggn'  
o qpkqt'kpi 'r gtkqf 0'

"

\*h+ Tgugctej gtu'y kn'kf gpvkhf 'c'lwkscdng'iqecvkap'kp'yj g'o ckp'ixkpi 'ur ceg'cpf 'ugv'w' "  
kpf qqt'ckt's wcrkvf 'kput wo gpw'hqmry kpi "Ugwr 'qh'kpf qqt'Ck'S wcrkvf 'O qpkqt'kpi "  
Ucvkap0'

"

\*i+ Tgugctej gtu'y kn'kf gpvkhf 'c'lwkscdng'iqecvkap'kp'o cuvgt'dgf tqgo 'cpf 'ugv'w' 'kpf qqt'  
ckt's wcrkvf 'kput wo gpw'hqmry kpi "Ugwr 'qh'kpf qqt'Ck'S wcrkvf 'O qpkqt'kpi "Ucvkap"  
kp'O cuvgt'Dgf tqgo 0'

"

\*j+ Tgugctej gtu'y kn'kpuvcm'E Q4'ugpuqtu'kp'qvj gt'dgf tqgo u'\*w' 'vq'5+' "

\*k+ Hqmry "Ugwr 'qh'E Q4'kput wo gpw'kp'Dgf tqgo u'

"

\*k+ **Ki'vko g'r gto ku."dgi kp'vq'(7) Conduct Diagnostic Tests0'**

"

\*l+ Tgugctej gtu'y kn'ugwr 'r cuuk'g'uco r ngu'hqmry kpi "Uctv'qh'Rcuuk'g'Uco r r kpi 0'

"

\*m+ C'tgugctej gt'y kn'eqphko 'y kj 'y g'uwwf { 'r ct'vkr cpv'yj g'vko g'y j gp'yj g'hgrf 'vgco "  
y kn'tgwt'p'kp'qpg'y ggn'vq'eqmge'v'kput wo gpw'OGzr r'kp'vq'uwwf { 'r ct'vkr cpv'yj cv'  
ulj g'y kn'dg'eqpcev'f 'kp'cr r tqzko cvgnf '5'f c { u'vq'ugg'kh'o qpkqt'kpi 'ku'i qkpi 'cu'  
r rpppgf 0Uwwf { 'r ct'vkr cpv'ecp'cnuq'eqpcev'tgugctej gt '\*gkj gt'hgrf 'vgco 'qt'  
NDP N+'cv'cp { vko g'hqt's vguvkapu0'

"

**(5) Mid-Week Check**

"

\*c+ C'tgugctej gt'y kn'ecm'uwwf { 'r ct'vkr cpv'5'f c { u'chgt 'y g'KCS 'kput wo gpw'  
kpuvcr'vkap'hqmry kpi "Vgrgr j qpg'Uetkr v'vq' Cpuy gt 'S vguvkapu'F wtkpi 'Qpg/Y ggn'  
Uco r r kpi 'Retkqf 0'

\*k+ Cpuy gt'cp { 's vguvkapu'yj cv'yj g'uwwf { 'r ct'vkr cpv'o c { 'j cxg'



o gcuwtg'vj g'ckhmj . 'uko krt 'v'j g'o gj qf 'f guetkdgf 'lp' Tcpi g'J qgf 'Ckthmj " Vgukpi O'k'vj g'kprg/vgt o kpcnku'kpeegukdrg \*gd O'mecvdf "qp"4pf 'hqt. "qt 'tqgh'qh'c" 3/uqt { 'j qvug+ 'vj gp'f gvgto kpg'k'vj gt g'ku'c'uwkcdrg'qecvqp" \*gd O' o gvcn'tki kf 'f wev' vj cv'ku'pqv'dwtkdf 'lp' kpuwv'kqp. "qt 'c'v'j g'o gvcn'eqmct 'eqppge'kpi 'hgz'f wev'vq" r rgpwo +hqt" o gcuwtkpi "ckhmj 'wukpi "cp'ck'xgqekv' 'r tqdg'hqmj kpi "Uw r n' 'Hcp" Ckthmj 'Vgukpi O'

"

\*f+ Hqmjy "Tcpi g'J qgf 'Ckthmj 'Vgukpi "v'q'o gcuwtg'vj g'ckhmj 'tcvg0"

"

\*g+ Hqmjy "Emjy gu'Ft {gt' Ckthmj 'Vgukpi "v'q'o gcuwtg'vj g'ckhmj 'tcvg0"

"

**(8) Post-Visit Data Processing**

"

\*c+ Rtr ctg'cpf "ugpf "uco r rgu'v'q'NDP N'hqt"ej go kcrn'cpcn' uku'hqmj kpi "Rtr ctg'cpf " Ugpf 'Uco r rgu'v'q'NDP N0'

"

\*d+ Fqy pncf "f cv'htqo "ICS "kputwo gpv'cpf "ce'xk'v' "ugpuqtu'hqmj kpi "F cv' " Fqy pncf 'Ej gemku."cpf "w rncf "v'uj ctgf 'hqr gt0"

"

\*e+ W rncf "r j qv'v'q'uj ctgf 'hqr gt " \*ugg' Nku'qh'Rj qv'v'q'Vcng+0'

"

\*f+ W rncf 'hqt'r rcp'v'q'uj ctgf 'hqr gt " \*ugg' Nku'qh'Vj kpi u'v'q'o ct'n'qp' Hqt'Rcp+0'

"

\*g+ Vtcpuetkdg'ng' { 'hqr' 'r ctco gvgtu'cpf 'pqv'v'q' Hqr'F cv'uj ggv'vj gp'w rncf 'vj g'hqr' v'q'c'uj ctgf 'hqr gt0"

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**A. Consent Forms**

**Healthy Efficient New California Homes Study**

**Study Consent Form**

**PURPOSE AND BACKGROUND**

[ qw'ctg'dgkpi "cungf "q'r ct vkr cvg'lp'c'tgugctej 'uwwf { 'ngf 'd { 'O cz 'Uj gto cp. "Rj (F 0'c'Ugpkqt" Uekp'vuv'cv'Ncy tgepeg'Dgtngng{ "P cvkqpcn'Ncdqtcvqt { "NDP N+0Vj g'uwwf { "cko u'vq'gxcnvcvg'kpf qqt " ckt's wcrk'v'cpf 'xgpvkrvqp'u'vgo 'r gthqto cpeg'lp'pgy 'Ecrkhtpkc'j qo gu'y kj 'i cu'er r rkcpegu'0Vj g" uwwf { 'ku'hwf gf 'd { 'y g'Ecrkhtpkc'Gpgti { "Eqo o kuukqp'0 "

Vj g'uwwf { 'vgo 'lpenmf gu'y g'I cu'Vgej pqmji { 'Kpukswwg'RI VK: 'Rcehke'I cu' ( 'Grgentle'RI ( G+: 'cpf " Uqwj gtp'Ecrkhtpkc'I cu'Eqo r cp { "UqEcnI cu'0Xluku'v'q'uwwf { 'j qo gu'ctg'dgkpi 'eqqtf kpcv'gf 'd { " I VK0Tgugctej gtu'htqo 'I VKcpf 'y g'i cu'wkrk'v' y knr gthqto 'y g'vguu'0 "

NDP N'cpf 'ku'uwwf { 'r ctvpgtu'tgs wgu'v' { qwt'r gto kuukqp'v'f q'y g'hqmjy kpi <

- Xkuk'v' { qwt'j qo g'qp'v'j tgg'ugr ctv'f c { u'0Vj g'htuv'xkuk'y knr'cng'wr 'v'q'vy q'j' qwtu'0Vj g'ugeqpf " cpf 'y kf 'xkuku'y knr'cng'wr 'v'ukz'j' qwtu'gcej "cpf 'o wuv'qee'w'qpg'y ggm'cr ct'0"
- Vgu'v'j g'uchgv' 'qh' { qwt'i cu'er r rkcpegu'0 [ qwt'j qo g'o wuv'r cu'v'j g'i cu'er r rkcpeg'uchgv' 'v'gu'v'q' r ct vkr cvg'lp'v'j ku'uwwf { 0C 'ugt'xleg'v'gej plekcp'htqo " { qwt'i cu'wkrk'v' y knr gthqto 'y g'vgu'0K' wpuchg'eqpf kkp'u'ctg'hqwpf 'y kj " { qwt'i cu'er r rkcpegu. 'y g'i cu'ugt'xleg'v'gej plekcp' y knr'cf xkug' { qw'qp'cev'kpu'v'v'cng'0 "
- Kpuv'cm'kpu'wo gpw'v'q'o gcuwt'g'ckt's wcrk'v' { cpf 'r gt'kqf u'qh'qr gtcv'kqp'qh'uqo g'gs wkr o gpv'kp' { qwt' j qo g'ht'qpg'y ggn'0 "
- Eqpf vev'f kci pqu'v'v'gu'v'q'gxcnvcvg'v'j g'r gthqto cpeg'qh' { qwt'o gej cplecn'xgpv'krv'kqp'u'vgo " cpf 'q'y gt 'd'wkr'v' kpi 'eqo r qpgpu'0 "
- Ceegu'v'j g'dwkr'v' kpi 'eqo r rkcpeg'f qewo gpw'v'j cv'y gt'g'ht'ngf 'y kj " { qwt'ht'ecn'dwkr'v' kpi " f gr ctvo gpv'f wtkpi 'y g'r gto k'r tqegu'0 "

Kp'cf f kkp. 'f wtkpi 'y g'qpg/y ggn'o gcuwtgo gpv'r gtlqf. " { qw'o wuv'ci tgg'v'q' <

- Mgr " { qwt' y kpf qy u'equgf 0 "
- Eqo r rvg'c'f ckn' 'hqi '3/5' o kpwgu'r gt 'f c { +v'q' kpf lec'v'j g'pwo dgt'qh'r gqr ng'lp' { qwt'j qo g' cpf 'v'q'r tqxkf g'kphqto cvkqp'qp'kpf qqt'cev'xkuku'v'j cv'o c { 'r tqf weg'ckt'r qm'wcpu'0 "
- Eqo r rvg'c'37/o kpwg'uw'xg' { 'cdqw' { qwt'j qo g.'j' qwugj qrf 'cev'xkuku. 'cpf 'f go qi tcr j leu'0 "

Vj g'tgs wktgo gpw'ht' r ct vkr cvkqp'lp'v'j ku'uwwf { 'ctg'cu'hqmjy u' <

- [ qw'o wuv'dg'cv'hcuv'3: " { gctu'qrf 0 "
- [ qwt'j qo g'o wuv'dg'c'ukpi ng'hc'o kn' f gcej gf 'j' qwug. 'h'qecv'gf 'lp'Ecrkhtpkc'0 "
- [ qwt'j qo g'o wuv'dg'dwkn'lp'4233'qt'rvgt'0 "
- [ qwt'j qo g'o wuv'j cxg'i cu'er r rkcpegu'cpf 'o gej cplecn'xgpv'krv'kqp'0 "

- Uo qnkp i "o wu'dg'r tqj kdkgf 'kp" { qwt'j qo g0"
- [ qwt'j qo g'o wu'pqv'j cxg'j ki j n' 'wpwucn' hkn' c'v'kp'qt' 'xgp'v'k'v'kp' u' { u'go u0"
- [ qw'o wu'ur gcm'cpf 't'gcf 'Gpi nkuj 'u'w' h'el'gp'v' { 'y gm'v'q'w'pf gtu'w'cpf 'y' ku'f'qewo gp'v0"
- C'v' h'g'cu'v'q'pg'cf wu't'guk'f gp'v'o wu'dg'r t'gug'p'v'q' i' t'cp'v'ce'egu'v'q' { qwt'j qo g'hqt' 'y' g'k'p'j qo g' xkuku0"
- Vj gt'g'o wu'dg'uw'k'cd'rg' h'q'ec'v'kp'u'cpf "gr'ge'v't'ec'n'q'w'rg'u'hqt'uw'f { 'k'p'ut'wo gp'u0"
- K' { qw'f'g'ek'f'g'v'q'uw'r' r'ct'v'ek'r'c'v'kp'i' 'd'gh'qt'g'c'y' ggm'q'h'k'p'j qo g'o gcu'w't'go gp'u'ku'eqo r'ng'v'g'." { qw'o wu'cm'y' 'y' g'uw'f { 'v'gco 'q'v't'ge'q'x'g't'cm'o' gcu'w't'go gp'v'f'g'x'le'gu'h'q'o' { qwt'j qo g0"

**1. PROCEDURES**

**If you agree to be in this study, the following will happen<""**

"

**Walk Through to Collect Basic Information About Your Home**

"

W' 'v'q'w' q't'gug'cte'j' gtu'y' kn'x'kuk' { qwt'j qo g'hqt'w'r' 'v'q'w' q'j' qwt'u'v'q'r' gth'q'to' 'y' g'hq'm'y' k'p'i' 'v'cu'm'<"

- Y' cm'l'y' tq'w' j' 'v'q'k'f' gp'v'kh' { 'i' cu'cr' r'nc'p'egu'."o' g'ej' c'p'le'cn'x'gp'v'k'v'kp'c'p'f' "q'y' g't'gs'w'r' o' gp'v0"
- I' c'v'j' g't'k'p'h'q'to' c'v'kp'p'cd'q'w'i' cu'cr' r'nc'p'egu'c'p'f' "o' g'ej' c'p'le'cn'x'gp'v'k'v'kp'gs'w'r' o' gp'v0R'j' q'v'qu' y' kn'i'd'g'v'c'ng'p'h'q't'f' q'ewo' gp'v'c'v'kp'p'0C' "u'ng'v'ej' "q'h' { qwt'j qo g'au'h'q'q't' r'nc'p'y' kn'i'd'g'o' c'f' g0"
- E'q'p'h'k'to' 'y' c'v'y'j' g't'g'c't'g'uw'k'cd'rg' h'q'ec'v'kp'u' h'q't'ug'v'k'p'i' "w'r' uw'f { 'k'p'ut'wo' gp'u'k'p'uk'f' g'c'p'f' " q'w'uk'f' g'q'h'y'j' q'w'ug'0"
- E'q'p'h'k'to' 'y' c'v'g'u'g'p'v'k'v'k'p'c'p'f' "e'q'o' r'q'p'g'p'u'c't'g'q'r' g't'c'v'k'p'c'n'0K'i'p'g'eg'u'uct' { .f'k'ue'w'u'c'p'f' " q'd'v'ek'p' { qwt'j qo g'cr' r't'q'x'c'n'h'q't'c'p' { 'e'j' c'p'i' g'u'y'j' c'v'p'g'g'f' 'v'q'd'g'o' c'f' g'v'q'v'j' g'ug'u' { u'ng'o' u'r' t'k'q't' 'v'q'v'j' g' y' ggm'q'h'c'k't's'w'r'k'v' { c'p'f' "gs'w'r' o' gp'v'o' gcu'w't'go' gp'u'k'p' { qwt'j qo g0""

**Setup Monitors to Measure Air Quality, Mechanical Ventilation and Appliance Usage**

"

W' 'v'q'v'j' t'gg't'gug'cte'j' gtu'y' kn'x'kuk' { qwt'j qo g'hqt'w'r' 'v'q'uk'z'j' qwt'u'0V'j' g'v'gco' 'y' kn'i'r' gth'q'to' 'y' g' hq'm'y' k'p'i' 'v'cu'm'<"

- E'q'p'uw'v'y' k'y' " { qw'v'q'ug'ng'ev'h'q'ec'v'kp'u' h'q't'o' q'p'k'q't'k'p'i' "gs'w'r' o' gp'v'y' c'v'c't'g'w'p'q'd'v'w'uk'g'c'p'f' "q'w' q'h't'g'ce'j' "q'h'uo' cm'ej' k'f' t'g'p'c'p'f' r' g'u'0"
- K'p'u'c'm'l'f' g'x'le'gu'v'q'o' gcu'w't'g'c'k't's'w'r'k'v' { 'c'v'q'p'g'eg'p'v'c'n'h'q'ec'v'kp'c'p'f' "q'p'g'q't' "o' q't'g'c'f' f'k'k'q'p'c'n' h'q'ec'v'kp'u'k'p'uk'f' g'q'h' { qwt'j qo g0"
- K'p'u'c'm'l'f' g'x'le'gu'v'q'o' gcu'w't'g'c'k't's'w'r'k'v' { 'c'v'c'ug'ew't'g'h'q'ec'v'kp'q'w'uk'f' g'q'h' { qwt'j qo g0"
- K'p'u'c'm'l'f' g'x'le'gu'v'q'o' q'p'k'q't' 'y' g'w'ug'q'h'x'gp'v'k'v'kp'c'p'f' "c'k't'o' q'x'k'p'i' "gs'w'r' o' gp'v'k'p'ew'f' k'p'i' 'y' g' e'g'p't'c'n'c'k't'j' c'p'f' r'g't'."t'c'p'i' g'j' q'q'f'."c'p'f' "g'z'j' c'w'u'h'c'p'u'0"
- K'p'u'c'm'l'g'p'u'q't'u'v'q'f' g'v'g'to' k'p'g'c'v'k'x'k'k'g'u'."u'ew'j' "cu'eq'q'nk'p'i' ."w'ug'q'h'x'g'p'."c'p'f' "em'y'j' g'u'f't' { k'p'i' 0"

"

U'q'o' g'q'h'y'j' g'c'k't's'w'r'k'v' { c'p'f' "x'gp'v'k'v'k'p'gs'w'r' o' gp'v'o' q'p'k'q't'k'p'i' "f' g'x'le'gu'o' c' { 'p'g'g'f' 'v'q'd'g'r' n'i' i' g'f' " k'p'v'q'gr'ge'v't'ec'n'q'w'rg'u'0K'i'k'u'k'o' r'q't'c'p'v'y'j' c'v' { qw'p'q'v'w'p'r' n'i' 'y' g'ug'k'go' u'g'z'eg'r'v'k'p'c'p'go' g't'i' g'p'e' { 0"

"



**Report Summarizing Results for Your Home**

"

[ qw'y knltgegkxg'c'tgr qt'v'wo o ctk kpi 'vj g'o gcuwtgo gpv'cpf 'f kci pquwle 'vgu't guwmu'y kj kp 'vj tgg' o qp'v u'ch'gt 'eqo r ng'v'qp 'qh'v'j g'uwf { 0

**2. RISKS/DISCOMFORTS**

"

Megr kpi '{ qwt'y kpf qy u'emugf 'o c { 'ej cpi g'vj g'ngxgn'qh'c'kt 'r qmwcpw'lp' '{ qwt'j qo g0Rqmwcpw' l'it qo 'kpf qqt 'u'qwt'egu'y kn'v' r l'ecm' { 't'gej 'j ki j gt 'eqpegpvt'cv'k'pu'eqo r ct'gf 'v'q'y j gp'y kpf qy u'ct'g' qr gp.'cpf' 'o cp { 'r qmwcpw' l'it qo 'q'wf qqtu'y kn'v' r l'ecm' { 'dg' 'lp' 'h'qy gt 'eqpegpvt'cv'k'pu'0'k' { 'q'w'wug' q'h'gp' 'qt' 'u'qo g'w'o gu'wug'y kpf qy u'h'qt 'eqo h'qt'v'qt 'h'qt'cp { 'q'vj gt 't'gcuqp.'r' r'g'cug' 'eqpukf gt 'y j g'vj gt' n'ggr kpi 'vj go 'emugf 'h'qt 'q'pg'y ggn'ku'ceegr v'cdng 'v'q' { 'q'w0'

"

Y g'y kn'wug'c'dm'y gt 'f' qqt 'v'q' 'o gcuwtg' 'vj g'c'k' 'r'g'c'nci g'q'h' { 'qwt'j qo g0Vj g'ug'f' g'x'legu'ct'g' 'h'w'f' 'cpf' " et'g'cv'g'f' t'chu'f' w'k'pi 'wug'0'Vj g'dm'y gt 'f' qqt 'v'gu'ku'g'zr g'ev'gf 'v'q' 'c'ng' 'cr r t'qz'ko c'v'gn' { '37' 'o k'p'w'gu'0' C'r r' r'k'c'p'egu' 'cpf' 'g'zj c'w'w' 'h'c'pu'y kn'd'g' 'v'go r q't'ct'kn' { 'w'p'c'x'k'c'dng' 'y j k'g' 'y g' 'o gcuwtg' 'r' g't'h'q'to c'p'eg' 'qt' " f' g'c'n'y kj 'vj g' 'o q'p'k'q't'k'pi 'f' g'x'leg' 'h'qt 'g'cej 'r' k'geg' 'q'h' 'g's w'k' 'o g'p'v'0'R'g'cug' 'eqpukf gt 'y j g'vj gt 'vj g'ug' " c'v'x'k'k'gu'y kn'r' t'g'ug'p'v'c' 'u'ki p'h'k'c'p'v' 'k'p'eq'p'x'g'p'k'g'p'eg'0'

"

C'k' 'o q'p'k'q't'k'pi 'f' g'x'legu'y kn'd'g' 'r' r'eg'f' 'k'p' 'w'p'q'd'v' w'k'x'g' 'h'q'ec'v'k'pu' 'vj c'v'c't'g' 'eq'p'h'k' 'o g'f' 'v'q' 'd'g' 'c'ee'g'r' v'cdng' " v'q' { 'q'w'0'U'qo g'q'h' 'v'j g'c'k' 'o q'p'k'q't'k'pi 'f' g'x'legu'j c'x'g' 'r' w'o r u'v'j c'v' 'o c { 'd'g' 'c'w'f' k'dng'0'

"

Vj g'uwf { 't'gs w'k'gu'c'v' 'h'c'uv' 'q'pg' 'c'f w'w' 'v'q' 'd'g' 'r' t'g'ug'p'v' 'q' 'i' t'c'p'v' 'vj g' 'h'k'g'r'f' 'v'g'co 'c'ee'g'u' 'v'q' { 'qwt'j qo g0' Vj g'c'v'x'k'k'gu'q'h' 't'g'ug'c'tej g'tu'f' w'k'pi 'h'k'g'r'f' 'x'k'k'u' 'o c { 'd'g' 'v'go r q't'ct'kn' { 'f' k'ut' w' 'v'k'x'g' 'q't' 'et'g'cv'g' 'h'ko k'g'f' " c'ee'g'u' 'v'q' 'g's w'k' 'o g'p'v'q't' 'h'q'ec'v'k'pu' 'lp' 'vj g'j qo g0'

"

Vj g' 'h'k'g'r'f' 'v'g'co 'y kn'r' g't'h'q'to 'vj g'k' 'y q't'n'y kj 'ec'w'k'q'p.'d'w'v'j g't'g' 'ku' 'vj g't'k'um'q'h' 'o k'p'q't' 'f' c'o c'i g.'u'we'j " c'u'r' c'k'p'v'ej k'r u'q't' 'u'et'c'vej g'u'0'R'g'cug' 'eq'p'v'c'ev'NDP N'k'h' 'u'qo g'vj k'pi 'k'u'f' c'o c'i g'f' 'h'q'o 'vj g' 'h'k'g'r'f' 'x'k'k'u'." g'x'g'p' 'k'i' { 'q'w'f' q'p'v' 'h'k'p'f' 'vj g' 'r' t'q'd'ng'o 'w'p'v'k'i'c'h'gt' 'vj g' 'y q't'n'lp' { 'qwt'j qo g'j cu'g'p'f' g'f' 0'

"

D'ge'c'w'ug' 'y g'y kn'le'q'm'ge'v' { 'qwt'p'co g.'c'f'f' t'g'u'u' 'v'g'r'g'r' j q'p'g'p'w'o d'g't.' 'cpf' 'g'o c'k'i'c'f'f' t'g'u'u.' 'cpf' " k'p'h'q'to c'v'k'p' 'h'q'o { 'qwt'j qo g.'k'v'k'u'r' q'u'k'dng' 'vj c'v'v'j k'u'k'p'h'q'to c'v'k'p' 'eq'w'f' 'w'p'k'v'g'p'v'k'p'c'm' { 'd'ge'q'o g' " r'w'd'k'e'0'Y g'y kn'w'ug' 'r' c'u'uy q't'f' /r' t'q'v'g'ev'gf' 'cpf' 'g'p'et { r'v'g'f' 'h'k'g'u.' 'cpf' 'w'ug' 'eq'f' g'p'w'o d'g'tu' 'lp' 'r' r'eg' 'q'h' " p'co g'u' 'v'q' 'o k'p'ko k' g' 'vj g' 'ej c'p'eg' 'q'h' 'c'ee'k'f' g'p'v'c'n't' g'g'c'ug'u' 'q'h' 'k'p'h'q'to c'v'k'p'0'

**3. BENEFITS**

"

[ qw'y kn'ing'ct'p'cd'q'w'v'j g'k'p'f' q'q't'c'k' 's' w'c'k'v' { 'c'p'f' 'x'g'p'v'k'c'v'k'p' 'lp' { 'qwt'j qo g0Vj g'uwf { 'c'ko u'v'q' " r' t'q'x'k'f' g'd'g'p'g'h'k'u' 'v'q' 'E'c'r'k'q't'p'k'c'pu'd' { 'c'u'g'u'k'p'i 'vj g'g'h'g'ev'k'x'g'p'g'u'u' 'q'h' 'e'w't'g'p'v' 'd'w'k'f' k'pi 'eq'f' g'u' 'v'j c'v' " t'gs w'k'g'o g'ej c'p'le'c'n'x'g'p'v'k'c'v'k'p' 'v'q' 'r' t'q'v'g'ev'k'p'f' q'q't'c'k' 's' w'c'k'v' { 0'

**4. STORAGE OF SAMPLES/DATA**

"

Vj g'f cve'ltqo "{ qwt'j qo g'y kn'dg'gpvgtgf 'cpf' 'uqtf'gf 'kp'r cuuy qtf /r tqvgev'gf 'cpf' 'gpet { r vgf " eqo r wgt 'hkgu'0'Vj g'f cve'y kn'dg'eqo d'kpgf 'y kj 'f cve'eqmgev'gf 'ltqo 'qyj gt'j qo gu'cpf 'r wdrkuj gf 'kp' tgr qt'v'0"

"

Eqf gf 'f cve'yj cv'f qgu'pqv'kpen'f g' "{ qwt' pco g. 'cf f tguu. 'qt' 'eqpvcev'kphqto cvkqp' o c { 'dg'uj ctgf 'y kj " qyj gt' 'tgugctej gtu'y j q'ctg'eqpf wev'kpi 'tgr'v'gf 'uww'kgu'0"

"

[ qwt' 'eqpvcev'kphqto cvkqp'y kn'dg'f luectf gf 'd { 'NDP N'cpf 'I VKcv'yj g'gp'f 'qh'yj ku'uwf { 0 [ qwt' 'i cu' wkrk'f 'y kn'rpqv'cti gv' { qw'hqt 'hwwt'g'r tqf wev'qt 'ugt'xleg'r tqo qv'kpu'dgecwug'qh' { qwt' r ct'v'ekr cvkqp'kp' yj ku'uwf { 0"

**5. FINANCIAL CONSIDERATIONS**

"

K'i'hgrf 'o gcuwtgo gpv'y gtg'v'q'qeew'kp' "{ qwt'j qo g'f wtkpi 'uwo o gt. "{ qw'o c { 'h'kp'f 'k'p'geguuct { 'v'q" wug'o qt'g'ck' 'eqpf k'k'q'k'pi "d'gecwug'y k'p'f qy u'uj qwf 'pqv'dg'wug'f 'hqt' 'x'gp'v'kr'cvkqp'f wtkpi 'yj g'uwf { 0' Vj g'g'zr gev'gf 'gp'gti { 'equ'v'ku'&32'qt' 'h'gu'v'ht' 'yj g'qp'g/y ggm'r g'k'q'f 0'Uww'f { 'r ct'v'ekr cpw'y j q' eqo r r'gv'gf 'yj g'uwf { 'y kn'it'geg'k'g'&5220'k'p'cf f k'k'q'p. 'yj g'uwf { 'r ct'v'ekr cpv'y kn'it'geg'k'g'&52'ht' eqo r r'gv'kpi 'cm'9'f c { u'q'h'yj g'f c'k'f 'f cve'k'pi '\*&5' r gt'f c { . 'cpf' 'cp'cf f k'k'q'p'cn'& 'hqt' 'eqo r r'gv'kpi 'cm'9' f c { u: 'cpf' '&42'ht' 'eqo r r'gv'kpi 'yj g'37/o k'pwg'uw'x'g' { 0"

"

Uww'f { 'r ct'v'ekr cpw'y j q' 'u'ct'v'dw'f q' 'pqv'eqo r r'gv'g'c' 'h'm'y ggm'q'h'o gcuwtgo gpv'y kn'it'geg'k'g'&322. " cuuwo kpi 'ceegu'v'ku'i t'cp'v'gf 'hqt' 'tgugctej gtu'v'q' 't'geq'x'g' 'cm'o q'p'k'q't'k'pi 'f g'x'k'egu'lt'qo 'yj g'j qo g'0"

"

Uww'f { 'r ct'v'ekr cpw'y j q' 'eqo r r'gv'gf 'yj g'f cu'cr r 'k'c'peg' 'uch'gv' { 'v'gu'v'cpf 'yj g'o ge'j c'p'lec'n'x'gp'v'kr'cvkqp' " k'f gp'v'k'ec'cvkqp'y cm'v'y tqw'j 'q'pn'f 'y kn'it'geg'k'g'&970"

"

Rc { o gpw'y kn'dg'r tqx'k'f gf 'v'q' "{ qw'kp' 'yj g'ht'o 'q'h'c' 'N'qy g'au'i k'h'v'ectf 'cv'yj g'gp'f 'qh'yj g' 'ru'v'x'k'uk'0' [ qw'qt' "{ qwt' tgr' t'gug'p'cv'k'g'y kn'dg'cung'f 'v'q' 'uki p'c' 'h'qto 'v'q'c'emp'qy r'gf i g'yj cv' { qw't'geg'k'g'f 'yj g'i k'h' v'ectf 0 [ qw'y kn'P QV'p'gg'f 'v'q' r tqx'k'f g' "{ qwt' 'u'q'ec'n' 'u'gew'k'v' { 'p'wo d'gt'0'J qy g'x'gt. 'yj ku'r c { o gpv'o c { 'dg' 'v'cz'cd'ng' 'k'p'eqo g'yj cv'uj qwf 'dg' 'tgr' qt'v'gf 'y j gp' "{ qw'h'k'g' 'v'cz'gu'0'

**6. QUESTIONS AND CONTACT NUMBERS"**

"

K'i' { qw'j' c'x'g's w'gu'k'q'pu'cd'q'w'yj g'uwf { . 'r r'g'cug' 'eqpvcev'<"

"

" O cz' 'Uj gto cp'cv'\*732+'6: 8/62440"

"

K'i' { qw'j' c'x'g's w'gu'k'q'pu'cd'q'w' { qwt' r ct'v'ekr cvkqp. 'uwf { 'o g'yj qf u. 'qt' 'gs'v'kr o gpv' r r'g'cug' 'eqpvcev'<"

"

" T'gpi k'g' 'Ej cp'cv'\*732+'6: 8/8792 '\*q'h'k'g+'qt' '\*637+'599/: 745 '\*eg'm'0"

"

Cp { 's w'gu'k'q'pu' { qw'j' c'x'g'cd'q'w' { qwt' 't'k'j w'cu'c' 't'gugctej 'u'w'd'lg'ev'uj qwf 'dg'f 'k'g'ev'gf 'v'q'<"

"

" 'D'gt'ng'g' { 'N'cd'J wo cp' 'U'w'd'lg'ev' 'E'qo o k'w'gg'cv'\*732+'6: 8/75; ; 0"

**7. PARTICIPATION IN RESEARCH IS VOLUNTARY.**

"

[ qw] cxg'vj g'tki j v'q'pqv'cng'r ctv'lp'vj ku'uwf { "qt'vq'uxqr 'vcn'pi 'r ctv'cv'cp { 'vko g0Kl' { qw'uxqr " r ctv'ekr cv'kp. 'k'o c { 'cng'c'hgy 'f c { u'dghqtg'y g'ecp'tgo qxg'kputwo gpw'cpf "gs wkr o gp0"

"

Kl' { qw'y kuj "vq'r ctv'ekr cvg.'r mcug'uki p'dgny 0 [ qw'y kn'dg'i kxgp'c'eqr { "qh'vj ku'eqpugpv'hqto "vq" n'ggr 0

**AUTHORIZATION**

Kj cxg'tgcf 'yj ku'eqpugpv'htqto 0'O { 's wgu'kqpu'cdqww'yj g'uwwf { 'j cxg'dggp'cpuy gtgf 'vq'o { 'uc'kuk'ce'kqp0''

Kxqnpv'gg't'v' r ct'v'ek cvg'lp'yj ku't'gugctej 0'K'cnuq'i kxg'eqpugpv'htq't'o { 'ej krf tgp'y j q'hkxg'lp'yj ku'j qo g" cpf "ctg'nguu'yj cp"3: "{ gctu'qif 0'

Kkxg'cv'yj ku'cf f tguu'<

aa"

aa"

Ky kni kxg't'gugctej gtu'ceeguu'vq'o { 'j qo g'vq'kpu'cni'cpf 'tgo qxg'kputwo gpw'htq't'yj g" o gcuwtgo gpw'0'K'ci tgg'vq'p'qv'wpr ni 'yj g'kputwo gpw'gze'gr v'kp'cp'go gti gpe { 0''''

\_\_\_\_\_ " " \_\_\_\_\_ "  
F cvg" " Uwdlgev'u'Uki pcwtg"

\_\_\_\_\_ " " \_\_\_\_\_ "  
" " Uwdlgev'u'P co g'\*r t'kpv'ngi kdn' +"

\_\_\_\_\_ " " \_\_\_\_\_ "  
F cvg" " Rgtuqp'Qdvck'kpi 'Eqpugpv'\*Uki pcwtg+"

\_\_\_\_\_ " " \_\_\_\_\_ "  
" " P co g'\*r t'kpv'ngi kdn' +"

# Healthy Efficient New California Homes Study

## Consent to Ventilation Changes

"  
"

### PURPOSE AND BACKGROUND

"

Rct vlek r vkqp "kp"vj g"J gcmj { "GhlekpvP gy "Ecrkqtplc"J qo gu"Uwf { "tgs wktgu"vj cv"guugpvkcn" xgpvk r vkqp"eqo r qpqpwu"ctg"qr gtcvkqpcrDC"hgfr "vej plekcp"j cu"eqpf wexgf "c"y cmj tqwi j "vq" kpur gev"vj g"qr gtcvkqp"qh"o vej cplecn"xgpvk r vkqp"gs wkr o gpv"kp" { qwt"j qo g0"

"

Vj g"lqmjy kpi "ej cpi gu"ctg"pgeguuct { "r tkqt"vq"ckt"uco r rkp i <"

"

aa"

"

aa"

"

aa"

"

aa"

"

aa"

"

"

Uwf { "r ctvlek cpwu"o wuw"ci tgg"vq"vj g"cdqxg"ej cpi gu"vq"eqpvkpwg"y kj "vj ku"tgugctej "uwf { 0"

### 1. PROCEDURES

Ki" { qw"ci tgg"vq"vj g"cdqxg"ej cpi gu."vj g"hgfr "vej plekcp"y kno cng"vj qug"ej cpi gu"vqf c { 0Y g"cum" vj cv" { qw" f q"pqv"cmgt "vj g"ej cpi gu"vj cv"ctg"o cf g"wpvkn"vj g"gpf "qh"vj g"qpq/y ggn"ck "s wcrk" { "cpf " gs wkr o gpv"wg"o gcuwtgo gpv"r gtkqf 0Ck "uco r rkp i "y knluctv"cv" { qwt"pgz v"uej gf wrgf "xluk0"

Cv"vj g"gpf "qh"vj g"qpq/y ggn"o gcuwtgo gpv"r gtkqf. " { qw"o c { "ej qqug"vq"rgcxg"vj gug"ej cpi gu"kp"r rceg" qt"vq"j cxg"vj go "tgwtpgf "vq"vj g"r tkqt"eqpf kkp0"

### 2. RISKS/DISCOMFORTS

"

Vj gtg"ctg"pq"uki p"hecpvtkumi"htqo "vj g"ej cpi gu"vj cv"ctg"o cf g"vqf c { .y j lej "r wtr qug"ku"vq"lvgv" { qwt" o vej cplecn"xgpvk r vkqp"vq"qr gtcvg"cu"kpvgpf gf 0[ qw"o ki j v"pqvleg"uo cn"ej cpi gu"kp"ckt"o qxgo gpv" qt"vgo r gtcwtg"lp" { qwt"j qo g0"

"

**3. BENEFITS**

"

O gej cplecni'xgpkvkvqp"gs vkr o gpv'vj cv'qr gtcvgu'cu'lpvgpf gf "ku'o qtg'ikngn( "vq'r tqxkf g'uwkscdng" xgpkvkvqp"vj cp'kh'k'ku'lpcevxg."dmengf."qt'r tqi tco o gf "kpeqttgevn( 0Vj g'tgs wguvgf "ej cpi gu'y kni' o qxg" { qwt'j } qo gdu'xgpkvkvqp'r gthqto cpeg'emugt "vq'vj cv'gpxkukqpgf "d { 'vj g'Ecrkhtpkca'dvkrf kpi " gpgti { "eqf gu0"

**4. FINANCIAL CONSIDERATIONS**

"

Vj g'ej cpi gu'bo c { 'tguwn'lp'c'uo cm'ej cpi g'\*c'hgy 'r gtegpv'qt' hguu+'vq' { qwt'o qpvy n' "gpgti { "dkn0' Vj ku'ej cpi g'eqwf 'tguwn'htqo "ej cpi gu'vq' { qwt'j } gcvkpi ."eqqkpi ."cpf lqt' hcp"gpgti { "equ0"

"

Uwf { 'r ctvkr cpw'y j q'f q'pqv'ci tgg"vq'vj g'ej cpi gu'y kni'P QV"eqpvkpwg'y kj "vj ku'tgugctej "uwf { 0C" eqo r gpucvqp'co qwpv'qh'897'y kni'dg'r tqxkf gf "hqt" { qwt'r ctvkr cvkqp"vq'vj ku'r qkpv0"

"

Rc { o gpw'y kni'dg'r tqxkf gf "lp"vj g'hqto "qh'c"Nqy gdu'i kn'ectf "o ckrf "y kj kp"6'y ggmi'chgt" eqo r ngvqp'qh'vj g'uwf { 0[ qw'y kni'P QV'pggf "vq'r tqxkf g" { qwt' "uqekn'ugevkvf "pwo dgt0J qy gxgt." vj ku'r c { o gpv'bo c { "dg'vczcdng'kpeqo g'vj cv'uj qwf "dg'tgr qtvgf "y j gp" { qw'hkg'vcz gu0"

**5. QUESTIONS AND CONTACT NUMBERS"**

"

Ki { qw'j cxg's wguvqpu'cdqww'vj g'uwf { ."r ngcug"eqpvcev<"

"

O cz "Uj gto cp'cv\*732+6: 8/62440'

"

Ki { qw'j cxg's wguvqpu'cdqww' { qwt'r ctvkr cvkqp."uwf { "o gjv qf u."qt"gs vkr o gpv.'r ngcug"eqpvcev<"

"

Tgpi kg'Ej cp'cv\*732+6: 8/8792\*"qhheg+qt"\*637+599/: 745"\*egmi0'

"

Cp { 's wguvqpu' { qw'j cxg'cdqww' { qwt'tki j w'cu'c'tgugctej "uwlgev'y kni'dg'cpuy gtgf "d { <"

"

"Dgtngng { "Ncd"J wo cp"Uwldgew'Ego o kwgg'cv\*732+6: 8/75; ; 0'

**6. PARTICIPATION IN RESEARCH IS VOLUNTARY.**

"

[ qw'j cxg'vj g'tki j v'vq'pqv'vcng'r ctv'lp"vj ku'uwf { "qt"vq"uqr "vcnkpi "r ctv'cv'cp { "vko g0[ qw'y kni'dg" i kxgp"eqr kgu'qh'vj ku'eqpugpv'hqto "vq'hnggr 0Ki' { qw'y kuj "vq'r ctvkr cvg."r ngcug'uki p'dgmy 0'

**AUTHORIZATION**

Kj cxg'tgcf 'y ku'eqpugpv'hqto 0'O { 's wgvkqpu'cdqww'y g'uwf { 'j cxg'dggp'cpuy gtgf 'vq'o { 'ucvklrcvklqp0''

Kco 'cv'rgcuv'3: '{ gctu'qrf "cpf 'j cxg'cwj qtkf 'y kj kp'y ku] qwugj qrf "vq'cwj qtk g'y g'ej cpi gu'pqvgf " qp'Rci g'30"

Kkxg'cv'y ku'cf f tguu<

aa

aa

Keqpugpv'vq'y g'tgugctej 'vgco 'o cnkpi 'y g'ej cpi gu'f guetkdgf "qp'Rci g'3"qh'y ku'hqto 0Kci tgg'vq'pqv' cngt'y g'ej cpi gu'y cv'tg'o cf g'vqf c{ 'wvkl'chgt 'y g'qpg/y ggnlck 'uco r nkpi 'ku'eqo r rvgf 0"

\_\_\_\_\_" " \_\_\_\_\_"  
F cvg" " Uwdlgev'u'Uki pcwtg"

" " \_\_\_\_\_"  
" " Uwdlgev'u'P co g'\*r tlpv'rgi kdnf +"

\_\_\_\_\_" " \_\_\_\_\_"  
F cvg" " Rgtuqp'Qdvclpki 'Eqpugpv'\*Uki pcwtg+"

" " \_\_\_\_\_"  
" " P co g'\*r tlpv'rgi kdnf +"

Healthy Efficient New California Homes Study

Record of Incentive Payment

"
"
Vj g'J gcmj { 'GhhekgpV' gy 'Ecrkhtpk'J qo gu'Uwf { 'hgrf 'vgco 'j cu'eqo r rvgf 'cm'b gcuwtgo gpw"
k" { qwt'j qo gOCmlkputwo gpw'cpf 'ugpuqtu'j cxg'dggp'tgo qxgf 0"

"
K'ej cpi gu'y gtg'o cf g'v" { qwt'xgpvkrvkqp'u{ ugo u'r tkt'vq'ck' uco r rki . 'vj g'hgrf 'vgco 'j cu'rglv'j g"
ej cpi gu'lp'r rcegORgcug'vgn'vj g'hgrf 'vgco 'k' { qw'r tghg'v' t'gxgtug'vj qug'ej cpi gu'0"

"
Vj g'hgrf 'vgco 'j cu'eqmgevgf 'fck' { 'cevkxk' { 'rqi 'cpf 'uwxg' { 'hqt' 'vj cv' { qw'j cxg'eqo r rvgf 'k'cp"
gpxgnr g'r tqxkf gf 0"

"
K' { qw'j cxg's wgu'kpu'cdqw' { qwt'r ctvkr vkqp'lp'vj ku'tgugcte'j 'uww' { . 'r rgcug'eqpvce<

"
Tgpi kg'Ej cp'cv'\*732+'6: 8/8792"\*qhheg+'qt'\*637+'599/: 745'\*egmi0

ACKNOWLEDGEMENT

"
 "Kco 'cv'rgcu'3: "{ gctu'qrf 0Ktgeglxgf "c'i km'ectf "k'vj g'co qwpv'qh'
aa"

"
K'kxg'cv'vj ku'cf f tgu<

"
aa"

"
aa"

"
"
"
F cvg" " Uwdlgev'u'Uki pcwtg"

"
"
"
" Uwdlgev'u'P co g'\*r t'kpv'rgi kdn' +"

"
"
"
F cvg" " Rgtuqp'Qdvc'k'p' "Uki pcwtg"

"
"
"
" P co g'\*r t'kpv'rgi kdn' +"

**B. Walk Through / Mechanical Ventilation System Checklist**

- "
- 30 J qwug'K <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekcp<aaaaaaaa "
- "
- 40 I gpgtcnj qwug'ej ctcevtkueu"
- "
- c0 Uswctg'hqvcig<aaaaaaaaaaaaaa"
- "
- d0 P wo dgt"qh'uvtkgu<aaaaaaaaaaaaaa""
- "
- e0 O ctnl'qp'hqqt'r rcp'egkpi 'j gki j w'lp'i tgcvtqqo . 'nkej gp.'hklpi 'tqqo . 'f kpi " tqqo . 'dgt tqqo u.'cpf 'qj gt'r ctu'qh'y g'j qwug'y kj 'f hgtgpv'egkpi 'j gki j w'lp'"
- "
- f0 P wo dgt"qh'tqqo u0P qv'cp{ 'f hgtgpeg'dgy ggp'cewcn'rc{ qw'cpf 'hqqt'r rcp0"
- "

"	3uv'Hqqt"	4pf "Hqqt"	5tf "Hqqt"
Dgf tqqo u"	"	"	"
Qvj gt'Tqqo u, "	"	"	"
Hwn'Devj "	"	"	"
J crh'Devj "	"	"	"

- , 'Ncwptt{ 'tqqo . 'r r{ tqqo . 'j qo g'qh'eg.'f gp.'gve0"
- "
- g0 I ctcig<aaaaaaaaaaaaaa" \*Cwcej gf "Tf gcej gf A'Vcng'r j qv'qh'f qqt'v'j' qwug"
- "
- " "aaaaaaaaaaaaaa" \*P wo dgt"qh'r ctnkpi 'ur qw+"
- "
- Wugf 'hqt'r ctnkpi "pqto cm{ Aaaaaaaaaaaaaaa" \*l gu"TP q+"
- "
- h0 Vcng'c'r j qv'qh'y g'i ctcig0Uj qy 'y g'i ctcig/vq/j qwug'lpvthceg" \*cm'r rpgu+0"
- "
- i0 O ctnl'qp'hqqt'r rcp'f qqtu'v'q'wukf g' \*g0 0'o ckp'f qqt.'r cvk'f qqt.'f qqt'v'q'i ctcig+0"
- "
- j0 Vcng'c'r j qv'qh'y g'gzvgtkt'qh'y g'j qwug'htqo 'htqp'v'cpf 'htqo 'dcen0"
- "
- 50 Cumlj qo gqy pgt'hqt 'wugt'o cpwcn'qh'o gej cplecn'xgpv'k'v'kp'gs vkr o gpv'cpf 'i cu' cr r rkepegu'kh'cxckrdng0Vcng'r j qv'qh'y g'wugt'o cpwcn'uj qy kpi 'o cng lo qf gr0"
- "
- 60 K gpvkh{ 'y g'y j qng/j qwug'xgpv'k'v'kp'u{ uvgo "
- "
- Gzj cwv'qpn{ 0Eqpv'pwqu'gzj cwv'hcp'hcvcgf "cv<aaaaaaaaaaaaaaaaaaaaaa"
- "

" " aaa\*gd 0'rcwptf{'tqqo +"

"

"

" □ Gzj cwv'qpn{ 0k/vgtto kvgpvhcp"\*eqptqmgf 'd{ "vko gt+'mjecvzf "c<"aaaaaaaaaaaaaaaaaa "

"

" aaa\*gd 0'rcwptf{'tqqo +"

"

"

" □ Uwr r n{ 'qpn{ 0k/rkpg'uw r n{ 'hcp'mjecvzf "c<"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa "

"

" aaa\*gd 0'cwk+"

"

" k/rkpg'uw r n{ 'hcp'eqppgevgf "v"aaaaaaa'uw r n{ 'ukf g'"

" "\*\*\*\*\*QT"aaaaaaa'tgwtp'ukf g'qh'hqtegf 'ck' u{ ugo "

"

" Nqecvkp"qh'uw r n{ 'ck'kprgv<"aa "

"

"

" □ Gzj cwv'cpf "uw r n{ \*dcrcpegf +'mjecvzf "c<"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa "

"

" aaa\*gd 0'cwk+"

"

" Nqecvkp"qh'uw r n{ 'ck'kprgv<"aa "

"

" F guetkdg<"aa\*gd 0'GTXIJ TX+"

"

70 Vcng'rj qv'qh'yj g'y j qrg/j qwug'xgpkrcvkp'u{ ugo "

- "
- c0 Ugr 'dcen'vq'vcng'c'rj qv'qh'yj g'i gpgtcr'uwttqwpf kpi 'y j gtg'yj g'u{ ugo 'ku'mjecvzf "
- " \*gd 0'eqpvkpwqwu'gzj cwv'hcp'kp'rcwptf{'tqqo . 'kp/rkpg'uw r n{ 'hcp'kp'cwk+"
- "
- d0 Emugwr "qh'yj g'u{ ugo \*gd 0'uj qy "o cnglo qf gn'qh'gzj cwv'hcp. 'kp/rkpg'uw r n{ 'hcp+"
- "
- e0 Emugwr "qh'yj g'u{ ugo 'eqptqmgf"\*gd 0'y cmluy kej . 'ur ggf 'ugwkpi . 'vko gt. 'gve0"
- "

80 Kgpvkh{ "qvj gt'o gej cplecn'xgpkrcvkp'gs vkr o gpv0'

- "
- c0 Ocuvt'dcy tqgo "
- "
- ku aaaa'Dcy "gzj cwv'hcp0O cng'I'o qf gr"aaaaaaaaaaaaaaaaaaaaaa "
- .....
- \*\*\*\*\*Eqpvkpwqwu'hcpA'aaaaaaaaaaaaaaaaaaaaaa\*gd gu'IP q+"
- .....
- .....
- " \*\*\*\*\*k/vgtto kvgpvhcpA'aaaaaaaaaaaaaaaaaaaaaa\*vko gt'ugwkpi +"

```

"
.....Eqpvqngf "d{ 'j wo kf kvcvA'aaaaaaaaaaaaaaaaaaaaaa" "TJ +"
"
"      "Rj qv<aaaa'hcp'lp'tqgo . 'aaaa'hcp'i tkrng.'aaaa'y cmluy kej "
"
k0  Vqkrgv'lp'c'ugr ctcvg'tqgo 'Itqo 'dcy tqgo A'aaaaaaaaaaaaaa" "gu"TP q+"
"
      "Kl[ gu"  'aaaa'Vqkrgv'gzj cwv'hcp00 cng"l'o qf gn<"aaaaaaaaaaaaaa"
.....
      "Eqv'p'w'q'w'u'hcpA'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" "gu"TP q+"
.....
"      "Kp'v'g'to kw'g'p'v'hcpA'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" "Vlo gt'ugv'k'p'i +"
.....
.....Eqpvqngf "d{ 'j wo kf kvcvA'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" "TJ +"
"
"      "Rj qv<aaaa'hcp'lp'tqgo . 'aaaa'hcp'i tkrng.'aaaa'y cmluy kej "
"
d0 Qy gt'dcy tqgo "3"o quv'wugf "dcy tqgo 'y cv'ku'pqv'y g'o cugt'dcy tqgo +"
"
      k0  aaaa'Dcy 'gzj cwv'hcp00 cng"l'o qf gn<"aaaaaaaaaaaaaaaaaaaaaa"
.....
      "Eqv'p'w'q'w'u'hcpA'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" "gu"TP q+"
.....
"      "Kp'v'g'to kw'g'p'v'hcpA'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" "Vlo gt'ugv'k'p'i +"
.....
.....Eqpvqngf "d{ 'j wo kf kvcvA'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" "TJ +"
"
"      "Rj qv<aaaa'hcp'lp'tqgo . 'aaaa'hcp'i tkrng.'aaaa'y cmluy kej "
"
k0  Vqkrgv'lp'c'ugr ctcvg'tqgo 'Itqo 'dcy tqgo A'aaaaaaaaaaaaaa" "gu"TP q+"
.....
      "Kl[ gu"  'aaaa'Vqkrgv'gzj cwv'hcp00 cng"l'o qf gn<"aaaaaaaaaaaaaa"
"
      "Eqv'p'w'q'w'u'hcpA'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" "gu"TP q+"
.....
"      "Kp'v'g'to kw'g'p'v'hcpA'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" "Vlo gt'ugv'k'p'i +"
.....
.....Eqpvqngf "d{ 'j wo kf kvcvA'aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa" "TJ +"
"
"      "Rj qv<aaaa'hcp'lp'tqgo . 'aaaa'hcp'i tkrng.'aaaa'y cmluy kej "
"
e0 Qy gt'dcy tqgo "4"ugeqpf "o quv'wugf "dcy tqgo 'y cv'ku'pqv'y g'o cugt'dcy tqgo +"
"
      k0  aaaa'Dcy 'gzj cwv'hcp00 cng"l'o qf gn<"aaaaaaaaaaaaaaaaaaaaaa"

```

```

.....
      *****Eqpvkpwqwu'hcpA'aaaaaaaaaaaaaaaaaaaaa"fl gu"TP q+"
.....
"      *****kpwto kwgpv'hcpA'aaaaaaaaaaaaaaaaaaaaa"vlo gt"ugwvpi +"
.....
*****Eqpvqmgf "d{ 'j wo kf kvcvA'aaaaaaaaaaaaaaaaaaaaa"fl "TJ +"
"
      *****Rj qvq<aaaa'hcp'lp'tqqo . 'aaa'hcp'i tkng.'aaa'y cmluy kej "
"
k0 Vqkqv'lp'c'ugr ctcvg'tqqo 'ltqo 'dcy tqo A'aaaaaaaaaaaaa"fl gu"TP q+"
.....
      *****kfl gu" 'aaa"Vqkqv'gzj cwv'hcp00 cng"l'o qf gn"aaaaaaaaaaaaa"
.....
      *****Eqpvkpwqwu'hcpA'aaaaaaaaaaaaaaaaaaaaa"fl gu"TP q+"
.....
"      *****kpwto kwgpv'hcpA'aaaaaaaaaaaaaaaaaaaaa"vlo gt"ugwvpi +"
.....
*****Eqpvqmgf "d{ 'j wo kf kvcvA'aaaaaaaaaaaaaaaaaaaaa"fl "TJ +"
"
      *****Rj qvq<aaaa'hcp'lp'tqqo . 'aaa'hcp'i tkng.'aaa'y cmluy kej "
"
f0 Qy gt'dcy tqo '5"ky kf "o quv'wugf "dcy tqo 'j cv'ku'pqv'y g'o cugt'dcy tqo +"
"
      k0 aaaa'Dcy 'gzj cwv'hcp00 cng"l'o qf gn"aaaaaaaaaaaaaaaaaaaaa"
.....
      *****Eqpvkpwqwu'hcpA'aaaaaaaaaaaaaaaaaaaaa"fl gu"TP q+"
.....
"      *****kpwto kwgpv'hcpA'aaaaaaaaaaaaaaaaaaaaa"vlo gt"ugwvpi +"
.....
*****Eqpvqmgf "d{ 'j wo kf kvcvA'aaaaaaaaaaaaaaaaaaaaa"fl "TJ +"
"
      *****Rj qvq<aaaa'hcp'lp'tqqo . 'aaa'hcp'i tkng.'aaa'y cmluy kej "
"
k0 Vqkqv'lp'c'ugr ctcvg'tqqo 'ltqo 'dcy tqo A'aaaaaaaaaaaaa"fl gu"TP q+"
.....
      *****kfl gu" 'aaa"Vqkqv'gzj cwv'hcp00 cng"l'o qf gn"aaaaaaaaaaaaa"
.....
      *****Eqpvkpwqwu'hcpA'aaaaaaaaaaaaaaaaaaaaa"fl gu"TP q+"
.....
"      *****kpwto kwgpv'hcpA'aaaaaaaaaaaaaaaaaaaaa"vlo gt"ugwvpi +"
.....
*****Eqpvqmgf "d{ 'j wo kf kvcvA'aaaaaaaaaaaaaaaaaaaaa"fl "TJ +"
"
      *****Rj qvq<aaaa'hcp'lp'tqqo . 'aaa'hcp'i tkng.'aaa'y cmluy kej "

```

"

g0 Ncwpt { 'tqqo ""

"

    k0 Gzj cwv'hcp'o cng"l'o qf gn"l'aaaaaaaaaaaaaaaaaaaaa "

.....

    Eqpvkpwqwu'hcpA'aaaaaaaaaaaaaaaaaaaaaa "s[ gu"l'P q+"

.....

"    kpvgt0 kwgpv'hcpA'aaaaaaaaaaaaaaaaaaaaaa "sVko gt'ugvki +"

.....

.....Eqpvqmgf "d{ 'j wo kf krcvA'aaaaaaaaaaaaaaaaaaaaaa "s "TJ +"

"

    Rj qvq<aaaa'hcp'k'p'tqqo . 'aaaa'hcp'i tkrng. 'aaaa'y cmluy kej "

"

h0 Mkej gp"

"

    k0 Tcpi g'j qqf "o cng"l'o qf gn"l'aaaaaaaaaaaaaaaaaaaaa "

"

    Gzj cwv'q'qwukf gA[ "l'P "

.....

- Wpf gt/ecdkpgv'tcpi g'j qqf "
- Y cm'o qwpv'tcpi g'j qqf "
- Wpf gt/ecdkpgv'o letqy cxg'eqo dq "
- Krcpf 'tcpi g'j qqf "
- F qy pf tchv'tcpi g'j qqf "sdcem"
- F qy pf tchv'tcpi g'j qqf "s0 kf f rg+"

"

    P wo dgt'qh'hcp'ur ggf "ugvki u<aaaaaaaaaaaaaaaaaaaaaa ""

"

    Rj qvq<aaaa'tcpi g'j qqf . 'aaaa'xgpvki 'f wev. 'aaaa'hcp'ur ggf "eqpvqni"

"

    k0 Gzj cwv'hcp'o cng"l'o qf gn"l'aaaaaaaaaaaaaaaaaaaaa "

.....

    EqpvkpwqwuA'aaaaaaaaaaaaaaaaaaaaaa "s[ gu"l'P q+"

.....

"    kpvgt0 kwgpv'hcpA'aaaaaaaaaaaaaaaaaaaaaa "sVko gt'ugvki +"

.....

.....Eqpvqmgf "d{ 'j wo kf krcvA'aaaaaaaaaaaaaaaaaaaaaa "s "TJ +"

"

- Gzj cwv'hcp'k'p'y cmlcdqyg'tcpi g"
- Gzj cwv'hcp'qp'egkiki "cdqyg'tcpi g"
- Gzj cwv'hcp'qp'egkiki 'pqv'cdqyg'tcpi g"

"

    Rj qvq<aaaa'hcp'k'p'tqqo . 'aaaa'hcp'i tkrng. 'aaaa'y cmluy kej "

"

90 J gcvkpi "Teqqnpi "cpf "ck"j cpf rgt"  
 "  
 c0 KJ XCE"cl qpgf "u{uygo A[ "TP OF guetkdg<aaaaaaaaaaaaaaaaaaaaaaaaaaaa"  
 "  
 d0 Tgwtp"ck"tgi kvgt "hqcvkqpu<aaaaaaaaaaaaaaaaaaaaaa \*o c{ "dg"o qtg"vj cp"qpg+ "  
 "  
 " aa "  
 "  
 " Tgwtp"ck"tgi kvgt "fko gpukqpu<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa "  
 "  
 " aa "  
 "  
 e0 Ck "hngt" hqcvkqpu<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa \*o c{ "dg"o qtg"vj cp"qpg+ "\*\*\*\*\*"  
 "  
 " aa "  
 "  
 " Eqpf kkp<aaaaaaaaaaaaaaaaaaaaaa \*gd O" hng" pgy . "wugf . "xgt { "f kv{ + "  
 "  
 " O cng" "fo qf gn<aaaaaaaaaaaaaaaa "\*\*\*\*\*" Ncuvej cpi g" f cvg<aaaaaaaaaaaaaaaa "  
 "  
 " O gj qf "wugf "q" tgeqtf "hngt" ej cpi g" f cvg< "  
 " \*gd O" f cvg" y tkwgp" qp" hngt . "hngt" j qif gt + "  
 "  
 " aa "  
 "  
 f0 Rj qvq<aaaa" j gto qucv. "aaaa" hwtpege. "aaaa" CE. "aaaa" f wey qtm" aaaa" ck" hngt "  
 "  
 : 0 Cwle "  
 "  
 c0 Xgpvgf "qt" wpxgpvgf <aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa "  
 "  
 d0 Kpuwrvkqp" v{ r g<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa "  
 "  
 e0 K gpvkh{ "f wev" cpf "cng" r j qvqu0 "  
 "

"	F wev" Uk g"	CewcnF wev' Ngpi vj "	P wo dgt "qh"; 2 <sup>q</sup> "Vwtpu"
Mkej gp" Tcpi g" J qqf "	"	"	"
O cugt" Dcvj tqgo " Gzj cwv' Hcp"	"	"	"

Qyj gt'Dcvj tqqo "3" Gzj cwuv'Hcp"	"	"	"
Qyj gt'Dcvj tqqo "4" Gzj cwuv'Hcp"	"	"	"
Qyj gt'Dcvj tqqo "5" Gzj cwuv'Hcp"	"	"	"
Ncwpt t{'Tqqo " Gzj cwuv'Hcp"	"	"	"
Uwr r n{'Ckt'"	"	"	"
Tgwtp"Ckt"	"	"	"

"  
"  
; 0 I cu"cr r nkpegu"

"	Nqecvqp"	I cu"t" GrgextleA'	O cng"t'o qf gn "	Vcng" Rj qvq"
Erqyj gu'f t {gt"	"	"	"	[ "TP "
Eqqmqr "	"	"	"	[ "TP "
Qxgp"	"	"	"	[ "TP "
Hktgr nceg"	"	"	"	[ "TP "
Y cvgt'j gcvt"	"	"	"	[ "TP "
Qyj gt"	"	"	"	"

, "Vcng'r j qvq'q'lj qy "o cng"t'o qf gn'qh'cr r nkpegu'0'

320 Wpxgpvgf "eqo dwvqp"cr r nkpegu"

c0 Ctg'y gtg"cp{ "wpxgpvgf "eqo dwvqp"cr r nkpegu'kpenf lpi "f geqtcvkg'j gcvtuA"

F guetkdg<aaa"

aaa"

d0 Rww'c"öF Q"P QV"WUGö'hcdgn'v'q'tgo kpf 'uwf { 'r ctvkr cpv'y cv'pq'wpxgpvgf "  
 eqo dwvkqp"cr r rkcpegu'uj qwf 'dg'wugf 'f wtkpi 'y g'qpg'y ggmlo qpkqtkpi 'r gtkqf 0"  
 "  
 330 Vcng'r j qvq"qh'qvj gt"cr r rkcpegu'cpf 'j qwugj qrf 'r tqf wew"  
 "  
 c0 aaaa"Qvj gt'j gcvkpi 'gs wkr o gpv0Nqecvkqp<aaaaaaaaaaaaaaaaaaaaaaaaaaaa"  
 "  
 d0 aaaa"Qvj gt'eqqkpi 'gs wkr o gpv0Nqecvkqp<aaaaaaaaaaaaaaaaaaaaaaaaaaaa"  
 "  
 e0 aaaa"Ch'engcpgtu0Nqecvkpu<aaaaaaaaaaaaaaaaaaaaaaaaaaaa"  
 "  
 f0 aaaa"J wo kf kkg0Nqecvkqp<aaaaaaaaaaaaaaaaaaaaaaaaaaaa"  
 "  
 g0 aaaa"F gj wo kf kkg0Nqecvkqp<aaaaaaaaaaaaaaaaaaaaaaaaaaaa"  
 "  
 h0 aaaa"Rwi /kp"qt'wvknick'it guj gpgtu0Nqecvkpu<aaaaaaaaaaaaaaaaaaaaaaaaaaaa"  
 "  
 i0 aaaa"DDS "I'qwf qqt'i tk0Nqecvkqp<aaaaaaaaaaaaaaaaaaaaaaaaaaaa"  
 "  
 j0 aaaa"Hktgr k0Nqecvkqp<aaaaaaaaaaaaaaaaaaaaaaaaaaaa"

## C. Preparation of IAQ Instruments and Activity Sensors

### Pre-Visit Check of PM Instruments

```
"
30 J qwug'kF <aaaaaaaa "F cvg<aaaaaaaa "Vko g<aaaaaaaa "Vgej plekcp<aaaaaaaa"
"
40 GU/864"Qwf qqt"RO "kputwo gpv'
"
c0 Qwf qqt"RO "kputwo gpv'kF <aaaaaaaaaaaaaaaa "g0 0"RO Qa223+"
"
d0 Rqy gt"qp"GU/864"cpf"eqppgevkputwo gpv"q"RE"xkc"ugtkcn'eqppgevkp0"
"
e0 Ej genlqr gtcvkqp'r ctco gvgtu<
k0 Uco r rkp'i "o qf g"? "Eqpvkpwqu"
kk0 Cwq'j gtq'kpvgtxcn"? "J qvtnf "
kk0 FCE"xqnci g'tcpi g"? "2/32"XFE"
kx0 FCE"eqpegpvcvkqp'tcpi g"? "3222"wi "
x0 M/hcevt"? "30"
xk0 TJ "ugv'r qlpv"? "82" "
"
f0 Tgeqtf"htqo "uetggp"fkur r{ <
"
k0 Vgo r gtcwtg<aaaaaaaaaaaaaaaa "qE"
"
kk0 Tgrcvkxg'j wo kf kv{ <aaaaaaaaaaaaaaaa " "
"
kk0 Dctqo gtle'r tguumtg<aaaaaaaaaaaaaaaa "o Dct"
"
kx0 k'kputwo gpv'j cu'dggp"uqtf"kp f qqt."j g"cdqyg'r ctco gvgtu'uj qwf "ci tgg"
y kj "gpv'kqpo gpvcn'ugpuqt0"
"
g0 Rgthqto "hny "ej genl
"
k0 Hny "uj qwf "dg"o clpvkpgf "q'y kj kp"- 1/20"NRO "k030 "q"40"NRO +"
"
kk0 Eqppgevkputwo gpv"q"c'tghgtgpeg'hny "o gvt" *g0 0"i kkdctvqt+"
"
kk0 Tghgtgpeg'hny <aaaaaaaa."aaaaaaaa."aaaaaaaa"NRO "before"ecnkdtcvkp"
"
kx0 Ej cpi g"HNQY "r ctco gvt"vulpi "ugtkcn'eqppgevkp"q"j g'tghgtgpeg'hny "
tgcf lpi "h'pgeguuct{0"
"
x0 Tghgtgpeg'hny <aaaaaaaa."aaaaaaaa."aaaaaaaa"NRO "after"ecnkdtcvkp"
```

"

h0 Rgthqto "VUR'kprgv'cpf 'e{enppg'ergcplki 'o qpvj n' "k0'cr r tqzko cvgn' 'chgt'6"qpg/  
y ggn'uco r rki +hmqy kpi 'O gvQpg'qr gtcvqp'o cpwcnDUwi i guv'cf f kpi 'c'ukengt"  
pqvg'qp 'yj'g'kputwo gpv'y kj 'yj'g'f cvg'qh'rcu'ergcplki 0"

"

" VUR'kprgv'cpf 'e{enppg'ergcplki 'r gthqto gf A<I "TP ""

"

i 0 Eqphki wtg"J QDQ'f cvc'hqi i gt""

"

k0 Ncwpej kpi 'y km'gtcug'f cvc0O cng'uwg'yj cv'uvqtgf 'f cvc'j cu'dggp"  
f qy pncf gf "dghqtg'rcwpej kpi 0"

"

k0 Dcwtg { 'ngxn'aaaaaaaaaaaaaaaa "ej cpi g'dcwtg { 'kh'>72' +"

"

k0 Ugrgev'2/32X'ecdng'hqt'Ej cpggn'3"  
kx0 Uecrkpi "? 'z322"  
x0 NEF 'wpl'?'wi "  
xk0 Fkudng'crcto "cpf 'Hngtu"  
xk0 Nqi i kpi 'kpvtxcl'?'3'o kpwg"  
xk0 Nqi i kpi 'o qf g'? 'Ucv'ukcu'\*Cxgtci g+ "  
kz0 Uctv'hqi i kpi "? 'Rwuj 'Dwwqp"  
z0 Uqr 'hqi i kpi "? 'Y j gp'o go qt { 'hku"

"

50 DV/867'kpf qqt'RO 'kputwo gpv'

"

c0 kpf qqt'RO 'kputwo gpv'k' <aaaaaaaaaaaaaaaa "g0 0'RO k223+ "  
"

d0 Rqy gt'qp'kputwo gpv0'

"

e0 Ej genl'cpf 'cf lww'f gxleg'emqen'vq'o cvej 'RE'f cvg'kko g0"  
"

F cvg'<aaaaaaaaaaaaaaaaaaaa "Vko g<aaaaaaaaaaaaaaaaaaaa "

"

f0 O cng'uwg'yj cv'uvqtgf 'f cvc'j cu'dggp'f qy pncf gf . 'yj'gp'engct'o go qt { 0'  
"

g0 Ej genl'qr gtcvqp'r ctco gygtu<'  
k0 Uco r ng'r gtlqf '? '3'o kpwg"  
k0 Eqpegp'vcvqp'wpl'?'wi lo 5"  
k0 Nqecvqp'k'?'223'\*UEI 'Ugv3+.'224'\*UEI 'Ugv4+.'"  
"225'\*RI G'Ugv3+.'226'\*RI G'Ugv4+ "  
kx0 M'Hevqt'?'3Q"

"

"

h0 Rgthqto 'hny 'ej genl'

```

"
k0 Hny "uj qwf "dg"o ckwkpgf "q"y kj kp"- 1"28"NRO "10030 "q"48"NRO +"
"
k0 Eqppgevlputwo gpv"q"tghgtpeg'hny "o gvt "g0 0"l kldtcvt+"
"
k0 Tghgtpeg'hny <aaaaaaaa.'aaaaaaaa.'aaaaaaaa"NRO "before"ecrldtcvkp"
"
k0 Htqo "j g"UGV"HNQY "UETGGP."cf lww"q"qdvckp"48"NRO "- 1"28"NRO "
qp"j g'tghgtpeg'hny "k'pgeguact { 0"
"
x0 Tghgtpeg'hny <aaaaaaaa.'aaaaaaaa.'aaaaaaaa"NRO "after"ecrldtcvkp"
"
i 0 Rgthqto 'l gtq"ej geni'
"
k0 Tgo qxg'uco r kpi "krgv"cpf "cwcej "\ GTQ"HNKVT"CUUGO DN[ 0'
"
k0 Htqo "\ GTQ"UETGGP."gpvt "q"dgi kp"l gtq"ecrldtcvkp0'
" "
" " " \ GTQKI "Uctv"ko g<"aaaaaaaaaaaaaaaaaaaaaaaaaaaa"
"
" " " \ GTQ"EQO RNVG"ko g<"aaaaaaaaaaaaaaaaaaaaaaaaaaaa"
"
j 0 Hwm{ "ej cti g"dcwgt { "ht"ukf g/d{/ukf g"eqo r ctkuq"y kj "GU/864"cv'uwf { "j qo g0'

```

**Pre-Visit Check of CO2 Instruments**

"

30 J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekcp<aaaaaaaa "

"

40 EQ4"kpwtwo gpv'KF <aaaaaaaa."aaaaaaaa."aaaaaaaa."aaaaaaaa."aaaaaaaa "

" .....\*g0 0EQ4a233+ "

"

50 Tgo qxg'o go qt { 'ectf . 'o cng'lwgt'vj cv'lwqtf 'f cv'j cu'dggp'f qy pmcf gf . 'yj gp'engct "

o go qt { 0 "

"

60 Rqy gt "qp'EQ4"o qpkqtu'wukpi 'r nmi /kp'cf cr vqt0 "

"

70 Wug'c'pgy 'o go qt { 'ectf 'kh'y gtg'ku'c'r tqdrgo "öEJ /ECtf ö"qt'öP q'ECtf ö0 "

"

80 Ej cpi g'CCC'dcwtglgu'kh'dcwtg { 'ku'hqy "öNqdCvö0 "

"

90 Rtgua'cpf 'j qrf "UGV'hqt "@'ugeqpf u0Tgeqtf 'qr gtcvkqp'r ctco gvgtu'lp'vcdrg'dgmy 0 "

"

c0 Ugv'f cvg'cpf "vlo g"öf C\Gö'v'q'o cvvj 'RE0 "

"

d0 Ugv'uco r rg'tcvg"öUR/vö"? '82'ugeqpf u0 "

"

e0 Qyj gt'qr gtcvkqp'r ctco gvgtu<

    k0 ödGGRö"? 'QH'%'dggg gt'qhh+ "

    kk0 öf GEö"? 'WUC'%'f geko cñej ctcevt+ "

    kk0 övEHö"? 'qE "

    kk0 öJ K j /ö'cpf "öJ K j Hö"? '2'%'pq'j gki j v'eqo r gpucvkqp+ "

"

"	%ZP "	%ZP "	%ZP "	%ZP "	%ZP "
F cvg"	"	"	"	"	"
Vlo g"	"	"	"	"	"
Uco r rg'Tcvg"	"	"	"	"	"

"

: 0 Rtgua'cpf 'j qrf "NQI I GT'hqt "@'ugeqpf u'v'q'dgi kp'mji i kpi 0 "

"

; 0 FCVCNQI I GT'y kn'cr r gct'lp'f kur rc { 0Tgeqtf 'EQ4"eqpegpvcvkpu\*'r r o +0 "

"

"	%ZP "	%ZP "	%ZP "	%ZP "	%ZP "
Vlo g"	"	"	"	"	"
TJ " "	"	"	"	"	"

Vgo r "*qE+"	"	"	"	"	"
EQ4, "r r o +"	"	"	"	"	"

, Vj g"ceewtce{ "qh'Gzvej 'EQ4'o qpkqtu'ctg"- l/"62'r r o 'hqt"eqpepvtcvkqpu">3222'r r o 0'

"

320 Cmry 'EQ4'o qpkqtu'q'qr gtcvg'hqt'82'o kpwgu0"

"

330 Rtguu'cpf "j qrf 'NQI I GT'hqt"@'ugeqpf u'q'gpf "rqi i kpi 0F CVCNQI I GT'y krlej cpi g"q"  
F CVC00 ggt'y krleqwpv'f qy p"vj tqwi j 'vj g'tgeqtf gf "fcvc0"

"

340 Wpr nxi "cmEQ4'o qpkqtu0"

"

**Pre-Visit Check of NO2 Instrument**

"

30 J qwug'K <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekcp<aaaaaaaa "

"

40 Cgtqs wcn'kputwo gpv'K <aaaaaaaaaaaaaaaa "

"

50 Uy kej "qp"Cgtqs wcn'cpf "cmqy 'ugpuqt"q'y cto "wr'hqt"52"o kpwgu0

"

60 Hqmjy "xkf gq" f go qputcvkqp"q'r gthqto | gtq"cpf "ur cp"ecrkdtevkqp"

"

c0 Ej cti g"T64"ecrkdtevkqp"i cu'ceeguqt { 'y kj "7i "qh'y cvgt'y kj "y cvgt"u{ t'kpi g'xlc" y cvgt'kprg0

"

d0 Ugwr | gtq'ckt"cv'20"NRO "wukpi "c'eqpuwcpv'hmjy 'tgi wrcvt0"

"

e0 Eqppgev| gtq'ckt"cv'20"NRO "kpvq"T64"i cu'kprgv'xlc"wdkpi "cpf "Nwgt"Hkwpki 0"

"

f0 Rrcg'y cto gf "wr "Cgtqs wcn'ugpuqt"j gcf "kp"T64"qwwrg0"

"

g0 Hmjy | gtq'ckt"wp'krtgcf kpi "ku'ucdrg"\*32"o kpwgu+0

"

h0 Cgtqs wcn'tgcf kpi <aaaaaaaaaaaaaaaaaaaa "r r o "

"

i0 Gpvt'ECN'KDTCVG"o qf g'cpf "ugrgev\ GTQ'ECN"

"

j0 \ gtqkpi "qh"Cgtqs wcn'eqo r rvgvf "cv<aaaaaaaaaaaaaaaaaaaaaa "Vlo g+"

"

k0 Ugwr "P Q4"\*3rro +ecrkdtevkqp"i cu'hqmjy kpi "uvg r u"sd+/"\*g+0Rgthqto 'y ku'vgu'kp" hwo g'j qqf "EcnlQJ UC"RGN"? "3"rro +0"

"

l0 Cgtqs wcn'tgcf kpi <aaaaaaaaaaaaaaaaaaaa "r r o "

"

n0 Gpvt'ECN'KDTCVG"o qf g'cpf "ugrgev"URCP "ECN"

"

r0 Tgeqtf "ewttgpv'I CK <aaaaaaaaaaaaaaaaaaaaaa "

"

o0 Ecrcwcvg"pgy "I CK "? "ewttgpv'I CK "z"3"rro "ur cp"i cu+"TCgtqs wcn'tgcf kpi "

"

p0 Tgeqtf "pgy "I CK <aaaaaaaaaaaaaaaaaaaaaa "

"

q0 Ur cp'ecrkdtevkqp"qh"Cgtqs wcn'eqo r rvgvf "cv<aaaaaaaaaaaaaaaaaaaaaa "Vlo g+"

"

70 Ej genlj cv'uqtgf "f cw"j cu'dggp" f qy pmqcf gf . 'y gp'engct"o go qt { 0

"



**Pre-Visit Check of Formaldehyde Instruments**

- "
- 30 J qwug'F <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekcp<aaaaaaaa "
- "
- 40 Hqto crf gj {f g'kputwo gpv'F <aaaaaaaaaaaaaaaa.aaaaaaaaaaaaaaaa "
- " .....\*g0 0HFO a233+ "
- "
- 50 Xgtkh{ 'y cv/4'pgy "ugpuqt'ectvki i gu'ctg'cxckrdrg'hqt'wug0"
- "
- 60 Vwtp'qp'hqto crf gj {f g'o qpkqtu0'
- "
- 70 Ej genly cv'wqtgf "fcw'j cu'dggp'f qy pmcf gf .'y gp'engct'o go qt {0"
- "
- 80 Ej genly cv'y g'fcv'lvlo g'ci tgg'y kj 'REOCflwv'kh'pgeguuct {0"
- "

"	%QZP "	%QZP "
F cvg"	"	"
Vlo g"	"	"
O gcwtgo gpv'F wcvkqp, "	"	"

, 'Ugv'vq'52'o kpwgu0"

"

**Pre-Visit Check of Data Loggers**

```
"
30 J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekcp<aaaaaaaa"
"
    Qpg/y ggmlo qpkqtłpi 'uej gf wrgf 'uvtv'f cvg<aaaaaaaaaaaaaaaa"
"
40 F ki k/Ugpug'Cpgo qo gvgt""
"
    c0 Kputwo gpv'KF <aaaaaaaaaaaaa."aaaaaaaaaaaaa."aaaaaaaaaaaaa."aaaaaaaaaaaaa"
"      ""      "      *gđ 0CPO a233+"
"
    d0 Eqppgev'F ki k/Ugpug'Cpgo qo gvgt 'v'RE0Ej gen'lj cv'łqtgf 'f cv'j cu'dggp"
    f qy pıqcf gf 0"
"
    e0 Erlem'Ugwr '*j ki'cwqo cvkcm{ "gtcug'f cvc+"
        k0 O qf g'łvtv'? "O CP WCN"
        k0 Uco r rg'r qłpv'? "54222"
        k0 Uco r rg'tcvg'? "52'ugeqpf u"
        kx0 Cıcto 'ugwłpi 'wpej gen"
"
    f0 TGE'f qwdrg/hıuj 'i tggp'gxgt { "32'ugeqpf u'y j gp'łp'O CP WCN'o qf g'łwcpf d{ "
"
    g0 Ej cpi g'dcwtg { 'h'CN0 'f qwdrg/hıuj " { gmıy "gxgt { "32'ugeqpf u"
"
50 kDwwqp'Vgo r gtcwtg'Nqi i gt""
"
    c0 Kputwo gpv'KF <"aaaaaaaaaaaaa."aaaaaaaaaaaaa."aaaaaaaaaaaaa."aaaaaaaaaaaaa"
"      "
        "aaaaaaaaaaaaa."aaaaaaaaaaaaa ""*gđ 0kDwa233+"
"
    d0 Eqppgev'kDwwqp'v'RE'cpf 'ugıgev'ıtqo 'F gxıeg'Nkuv0
"
    e0 K'łvtgf 'f cv'j cu'pqv'dggp'f qy pıqcf gf . 'vj gp'ugıgev'O kUUKQP 'cpf 'ıcxg"
    Vgo r gtcwtg'F cv'Nqi 'v'ıeıx'ııto cv0
"
    f0 Uıctv'P gy 'O kıkqp '*cwqo cvkcm{ "qxgty tıg'gzkłpi 'f cvc+"
        k0 U{pe'emıen'? "ı gu"
        k0 F kucdrg'tqmıxgt"
        k0 Uco r rıpi 'tcvg'? "; 2'ugeqpf u"
        kx0 Tguııwıkp'? "207'qE"
        x0 O kıkqp'ııctv'f gr { "ugv'ceeıtf łpi 'v'ıpg/y ggmlo qpkqtłpi 'uej gf wrgf 'uıctv'
        f cvg"
        xk0 UWV '*Uıctv'Wr qp'Vgo r gtcwtg'Cıcto +'qııı"
"
```

60 Qpugv'Ucv'F c'v'Nqi i gt''

"

c0 Kputwo gpv'F <aaaaaaaaaaaaa."aaaaaaaaaaaaa."aaaaaaaaaaaaa''

'''

" " \*g0 0UVCa233+"

"

d0 Eqppgev'f c'v'iqi i gt'v'q'RE0Tgcf'qw'f c'v'iqi i gt'dghqtg'rcwpej kpi 'kh'vqtgf'f c'v' j cu'pqv'dggp'f qy pncf gf 0'Wug'Gzr qtv'F c'v'Vcdrg'v'ucxg'f c'v'k'p'Uex'hqto c'v''

'''

e0 Ej gemldcwtg { 'ngxgn0Tgr rneg'5X'dcwtg { 'kh': 2' 0''

"

f0 Ej gemlj cv'y g'kpenf gf 'o ci pgv'ku'r tgugp'v'ht'wug'y kj 'y g'f c'v'iqi i gt''

"

g0 Ugv'wr 'y g'f c'v'iqi i gt'<

k0 Eqphki wtg'kpgtpeclugpuqt'v'iqi "otwvko go"

kk0 Ugv'uetggp'v'f kur r { 'ovko go'y j gp'uy kej '\*f qqt+'ku'qr gp''

kk0 Nqi i kpi 'kpvgtxcn?' '82'ugeqpf u''

kx0 Uctv'iqi i kpi 'd { 'Rwuj 'Dwwqp'\*iqi i kpi 'dgi kpu'y j gp'Uctv'Uqr 'dwwqp'ku' r tguugf +'

x0 Uqr 'tgeqtf kpi 'y j gp'o go qt { 'hku''

xk0 Mgr 'NEF 'uetggp'qp''

"

h0 Ncwpej 'f c'v'iqi i gt'\*y ku'y km'qxy tkg'o go qt { +0'

"

70 Qpugv'O qvt'QpIQh'F c'v'Nqi i gt''

"

c0 Kputwo gpv'F <aaaaaaaaaaaaa."aaaaaaaaaaaaa."aaaaaaaaaaaaa''

'''

" " \*g0 0O VTa233+"

"

d0 Eqppgev'f c'v'iqi i gt'v'q'RE0Tgcf'qw'f c'v'iqi i gt'dghqtg'rcwpej kpi 'kh'vqtgf'f c'v' j cu'pqv'dggp'f qy pncf gf 0'Wug'Gzr qtv'F c'v'Vcdrg'v'ucxg'f c'v'k'p'Uex'hqto c'v''

'''

e0 Ej gemldcwtg { 'ngxgn0Tgr rneg'5X'dcwtg { 'kh': 2' 0''

"

f0 Ugv'wr 'y g'f c'v'iqi i gt'<

k0 Eqphki wtg'kpgtpeclugpuqt'v'iqi "otwvko go"

kk0 Ugv'uetggp'v'f kur r { 'ovko go'y j gp'o qvt'ku'qhh''

kk0 Nqi i kpi 'kpvgtxcn?' '82'ugeqpf u''

kx0 Uctv'tgeqtf kpi 'd { 'Rwuj 'Dwwqp'\*iqi i kpi 'dgi kpu'y j gp'Uctv'Uqr 'dwwqp'ku' r tguugf +'

x0 Uqr 'iqi i kpi 'y j gp'o go qt { 'hku''

xk0 Mgr 'NEF 'uetggp'qp''

"

g0 Ncwpej 'f c'v'iqi i gt'\*y ku'y km'qxy tkg'o go qt { +0'

"

80 Qpugv'Rmi 'Nqcf 'F cvc'Nqi i gt''''

"

c0 Kputwo gpv'KF <aaaaaaaaaaaaa "

"

d0 Eqppgev'f cvc'iqi i gt'vq'RE0Tgcf "qw'f cvc'iqi i gt'dghqtg'rcwpej kpi 'kh'uvqtgf "f cvc" j cu'pqv'dggp'f qy pncf gf 0'Wug'Gzr qt v'F cvc'Vcdng'vq'ucxg'f cvc'kp'0eux'hqto cv0''''

"

e0 Ej gemidcwtg { 'ngxgn0Tgr nceg'CCC'dcwtgku'kh': 2' 0'

"

f0 Ugv'wr 'vj g'f cvc'iqi i gt<'

k0 Ugrgev'vq'o gcuwtg'Cevkxg'Rqy gt '\*Y . 'cxgtci g+'

kk0 Nqi i kpi 'kpvgtxcn?' '82'ugeqpf u"

kkk0 Uctv'iqi i kpi 'd { 'Rwuj 'Dwwqp '\*iqi i kpi 'dgi kpu'y j gp'UctvUqqr "dwwqp'ku" r tguugf +"

kk0 Uqqr 'tgeqtf kpi 'y j gp'o go qt { 'hku"

x0 Mgr 'NEF "uetggp'qp"

"

g0 Ncwpej 'f cvc'iqi i gt '\*j ku'y kn'qxyty tkg'o go qt { +"

"

90 Qpugv'Vgo r gtcwtgITgrv'xg'J wo kf kv' 'F cvc'Nqi i gt''''

"

c0 Kputwo gpv'KF <aaaaaaaaaaaaa.'aaaaaaaaaaaaa '\*gd 0VTJ a233+'

"

d0 Eqppgev'f cvc'iqi i gt'vq'RE0Tgcf "qw'f cvc'iqi i gt'dghqtg'rcwpej kpi 'kh'uvqtgf "f cvc" j cu'pqv'dggp'f qy pncf gf 0'Wug'Gzr qt v'F cvc'Vcdng'vq'ucxg'f cvc'kp'0eux'hqto cv0''''

"

e0 Ej gemidcwtg { 'ngxgn0Tgr nceg'5X'dcwtg { 'kh': 2' 0''

"

f0 Ugv'wr 'vj g'f cvc'iqi i gt<'

k0 Ugv'crcto 'vq'QHH'

kk0 Ugrgev'vq'iqi 'dqj 'vgo r gtcwtg'cpf 'tgrv'xg'j wo kf kv' "

kkk0 Nqi i kpi 'kpvgtxcn?' '82'ugeqpf u"

kk0 Nqi i kpi 'o qf g'? 'ucv'k'ueu.'cxgtci g.'uco r kpi 'gxgt { '37'ugeqpf u"

x0 Uctv'iqi i kpi 'd { 'Rwuj 'Dwwqp '\*iqi i kpi 'dgi kpu'y j gp'UctvUqqr "dwwqp'ku" r tguugf +"

xk0 Uqqr 'tgeqtf kpi 'y j gp'o go qt { 'hku"

xkk0 Mgr 'NEF "uetggp'qp"

"

g0 Ncwpej 'f cvc'iqi i gt '\*j ku'y kn'qxyty tkg'o go qt { +0'

"

: 0 Qpugv'Gperuqgf 'Vgo r gtcwtgITgrv'xg'J wo kf kv' 'F cvc'Nqi i gt''''

"

c0 Kputwo gpv'KF <aaaaaaaaaaaaa.'aaaaaaaaaaaaa.'aaaaaaaaaaaaa.'aaaaaaaaaaaaa "

"

" " " \*gd 0VTQa233+'

```

"
d0 Eqppgev'f'cvc'nqi i gt 'vq'RE 'wukpi 'WUD/Qr v'e'Dcug'Uc'v'kp0T'gcf 'qwf'f'cvc'nqi i gt"
dghqtg'rcwpej kpi 'kh'uvqtgf 'f'cvc'j cu'pqv'dggp'f'qy p'ncf'gf'0'Wug'Gzr'qtv'F'cvc'Vcdng"
vq'ucxg'f'cvc'kp'0'aux'hqto cv0"
""
e0 Ej gemldcwtg { 'ngxgn0T'gr'ncg'CC'dcwtg { 'kh': 2' 0"
"
f0 Ugv'wr 'y'g'f'cvc'nqi i gt<
    k0 Ugrgev'vq'nqi 'dqj 'vgo r gtcwtg'cpf 'tgr'v'xg'j wo kf kv { "
    k0 Nqi i kpi 'kpvgtxcn'?'82'ugeqpf u"
    k0 Ugrgev'f'grc { 'u'ctv'cee'qtf kpi 'vq'qpg/y ggm'lo qpkqt kpi 'uej gf wrgf 'u'ctv'f'cvg"
    kx0 Uqr 'tgeqtf kpi 'y'j gp'o go qt { 'hkm"
"
g0 Ncwpej 'f'cvc'nqi i gt '*y ku'y km'qxgty tkg'o go qt { +0'
"
"

```

**Pre-Visit Check of Passive Samples**

"  
 30 J qwug'KF <aaaaaaaa "F cyg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej pkekcp<aaaaaaaa "

"  
 40 Rcuukxg'P Q4'uco r rgtu"  
 "

c0 Nqecvg'Qi cy c'P Qz IP Q4'uco r rgt'cuugo drkgu\*5+- 'hgrf 'drcpm'cpf 'ej geni  
 rcdgrki 0"

"	Uco r rg'KF , "
Qwf qqt"	"
Kpf qqt'O qpkqtkpi 'Ucvkqp"	"
Kpf qqt'O qpkqtkpi 'Ucvkqp'*F wr rkecvg+"	"
Hgrf 'Drcpm'	"

, 'QI Y a22Za[ [ [ [ /O O /FF '\*f c{ 'y j gp'uco r rg'y cu'r tgr ctgf 'd{ 'NDP N+ "

d0 Rw'cm'Qi cy c'P Qz IP Q4'uco r rgt'cuugo drkgu'kp'c' | kr rmen'htgg| gt'dci 'rcdgrf "  
 oOgawa NOx/NO2 Samplerö"cpf 'uqtg'cv'htkf i g'\*pqv'htgg| gt+ "  
 e0 Dtkpi 'yj g'uco r rgtu'qwh'htqo 'yj g'htkf i g'cv'igcu'34'j tu'dghqtg'f gr mq{ 'yj go . "vq"  
 o cng'yj go 'tqqo 'vgo r gtcwgtg'\*q42'qE+0"

"  
 50 Rcuukxg'hqto crf gj { f g'uco r rgtu"  
 "

c0 Ncdgr'UME 'WO Gz '322'uco r rgtu'\*6+'qp' | kr 'dci u0"

"	Uco r rg'KF , "
Qwf qqt"	"
Kpf qqt'O qpkqtkpi 'Ucvkqp"	"
Kpf qqt'O qpkqtkpi 'Ucvkqp'*F wr rkecvg+"	"
O cuxgt'Dgf tqqo ""	"

, 'WO Ga22Za[ [ [ [ /O O /FF '\*f c{ 'y j gp'uco r rg'y cu'r tgr ctgf 'd{ 'NDP N+ "

d0 Rw'cm'UME 'WO Gz '322'uco r rgtu'kp'c' | kr rmen'htgg| gt'dci 'rcdgrf "  
 oFormaldehyde UMEx Samplerö"cpf 'uqtg'kp'htgg| gt0"

"  
 60 Rtgr ctg'qyj gt'o kue0'lw r rkgu"  
 "

```

c0 Uqtg'vj g'hqmjy kpi 'kp'c'htgg| gt'dci "
"
    k0 Y kr g'vj g'qwf qqt'uco r rkp| 'ecr 'engcp'y kj 'Mko y kr gu'y gv'y kj 'y cvgt'kh'
    pgeguuct {+'
"
    k0 Kpf qqt'r cuukxg'uco r rgt'ucpf "%5+"
"
    k0 Qi cy c'uw r qt v'erkr "%5+"
"
    kx0 P ktkrg'r qy f gt/ht gg'i mpxgu"%4- 'r cktu+"
"
d0 Rtgr ctg"5"cf f kkpnc|ht gg| gt'dci u'vq'uvtg'uco r ngu'chvt'uco r rkp| 0"
"
    k0 Qwf qqt'Rcuukxg'Uco r rgt"
"
    k0 Kpf qqt'Rcuukxg'Uco r rgt"
"
    k0 O cvgt'Dgf tqpo 'Rcuukxg'Uco r rgt"
"
"
"

```

## D. Occupancy and Indoor Activities Data Log

**Instructions:** Please fill out this data log each day, or on the following day.

Please enter your best estimates. If you are unsure, please provide your best guess.

Do not list the names of any people.

Eqf g'pwo dgt'hqt"j qo g'aaaaaaaa"

"

Day 1 F cvg'aaaaaaaaaaaaaaaaaaaaa" " " " F cvg'eqo r rvgf 'aaaaaaaaaaaaa"

"

	Midnight to 7am	7am to 11am	11am to 1pm	1pm to 5 pm	5pm to 9pm	9pm to Midnight
Number of people in home	"	"	"	"	"	"
Cooktop use Number of minutes	"	"	"	"	"	"
Oven use Number of minutes	"	"	"	"	"	"
BBQ/outdoor grill Number of minutes	"	"	"	"	"	"
Vacuuming Number of minutes	"	"	"	"	"	"
Window Use Number of minutes	"	"	"	"	"	"
Other notable* indoor/outdoor events	"	"	"	"	"	"

" Hqt "gzco r rg.'wug"qh'ht gr rneg.'ecpf rg.'ckt'ht guj gpgt.'ckt'ergcpgt.'j wo kf kktg.'wpwucn'qwf qqt'ckt"

s wkrk'(\*y qqf 'uo qng.'y kf hktg+'.cpf 'uq'qp0"

"

"

Day 2 F cvg'aaaaaaaaaaaaaaaaaaaaa" " " " F cvg'eqo r rvgf 'aaaaaaaaaaaaa"

"

	Midnight to 7am	7am to 11am	11am to 1pm	1pm to 5 pm	5pm to 9pm	9pm to Midnight
Number of people in home	"	"	"	"	"	"
Cooktop use Number of minutes	"	"	"	"	"	"
Oven use Number of minutes	"	"	"	"	"	"
BBQ/outdoor grill Number of minutes	"	"	"	"	"	"
Vacuuming Number of minutes	"	"	"	"	"	"
Window Use	"	"	"	"	"	"

<b>Number of minutes</b>						
<b>Other notable* indoor/outdoor events</b>	"	"	"	"	"	"

"Hqt"gzco r rg."wug"qh'ht gr ræg."ecpf rg."ct'ht guj gpgt."ct"ergcpgt."j wo kf khtg."wpwucn'qwf qqt"ct"  
 s wrk\{"\*y qqf "uo qng."y kf hktg+."cpf "uq"qp0"  
 "

Day 3<F cvg"aaaaaaaaaaaaaaaaaaaa" " " " " F cvg"eqo r rvgf "aaaaaaaaaaaa"  
 "

	<b>Midnight to 7am</b>	<b>7am to 11am</b>	<b>11am to 1pm</b>	<b>1pm to 5 pm</b>	<b>5pm to 9pm</b>	<b>9pm to Midnight</b>
<b>Number of people in home</b>	"	"	"	"	"	"
<b>Cooktop use Number of minutes</b>	"	"	"	"	"	"
<b>Oven use Number of minutes</b>	"	"	"	"	"	"
<b>BBQ/outdoor grill Number of minutes</b>	"	"	"	"	"	"
<b>Vacuuming Number of minutes</b>	"	"	"	"	"	"
<b>Window Use Number of minutes</b>	"	"	"	"	"	"
<b>Other notable* indoor/outdoor events</b>	"	"	"	"	"	"

"Hqt"gzco r rg."wug"qh'ht gr ræg."ecpf rg."ct'ht guj gpgt."ct"ergcpgt."j wo kf khtg."wpwucn'qwf qqt"ct"  
 s wrk\{"\*y qqf "uo qng."y kf hktg+."cpf "uq"qp0"  
 "  
 "

Day 4<F cvg"aaaaaaaaaaaaaaaaaaaa" " " " " F cvg"eqo r rvgf "aaaaaaaaaaaa"  
 "

	<b>Midnight to 7am</b>	<b>7am to 11am</b>	<b>11am to 1pm</b>	<b>1pm to 5 pm</b>	<b>5pm to 9pm</b>	<b>9pm to Midnight</b>
<b>Number of people in home</b>	"	"	"	"	"	"
<b>Cooktop use Number of minutes</b>	"	"	"	"	"	"
<b>Oven use Number of minutes</b>	"	"	"	"	"	"
<b>BBQ/outdoor grill Number of minutes</b>	"	"	"	"	"	"
<b>Vacuuming Number of minutes</b>	"	"	"	"	"	"
<b>Window Use Number of minutes</b>	"	"	"	"	"	"
<b>Other notable* indoor/outdoor events</b>	"	"	"	"	"	"

"Hqt"gzco r rg."wug"qh'ht gr ræg."ecpf rg."ct'ht guj gpgt."ct"ergcpgt."j wo kf khtg."wpwucn'qwf qqt"ct"  
 s wrk\{"\*y qqf "uo qng."y kf hktg+."cpf "uq"qp0"

Day 5 F cvg "aaaaaaaaaaaaaaaaaaaa" " " " " F cvg "eqo r rvgf "aaaaaaaaaaaa"

	Midnight to 7am	7am to 11am	11am to 1pm	1pm to 5 pm	5pm to 9pm	9pm to Midnight
Number of people in home	"	"	"	"	"	"
Cooktop use Number of minutes	"	"	"	"	"	"
Oven use Number of minutes	"	"	"	"	"	"
BBQ/outdoor grill Number of minutes	"	"	"	"	"	"
Vacuuming Number of minutes	"	"	"	"	"	"
Window Use Number of minutes	"	"	"	"	"	"
Other notable* indoor/outdoor events	"	"	"	"	"	"

" Hqt "gzco r rg. "wug"qh'ht gr rneg. "ecpf rg. "ckt 'ht guj gpgt. "ckt "engcpgt. "j wo kf khtg. "wpwuwcn'qwf qqt "ckt " s wrkv { "y qqf "uo qng. "y krf hktg+. "cpf "uq"qp0"

Day 6 F cvg "aaaaaaaaaaaaaaaaaaaa" " " " " F cvg "eqo r rvgf "aaaaaaaaaaaa"

	Midnight to 7am	7am to 11am	11am to 1pm	1pm to 5 pm	5pm to 9pm	9pm to Midnight
Number of people in home	"	"	"	"	"	"
Cooktop use Number of minutes	"	"	"	"	"	"
Oven use Number of minutes	"	"	"	"	"	"
BBQ/outdoor grill Number of minutes	"	"	"	"	"	"
Vacuuming Number of minutes	"	"	"	"	"	"
Window Use Number of minutes	"	"	"	"	"	"
Other notable* indoor/outdoor events	"	"	"	"	"	"

" Hqt "gzco r rg. "wug"qh'ht gr rneg. "ecpf rg. "ckt 'ht guj gpgt. "ckt "engcpgt. "j wo kf khtg. "wpwuwcn'qwf qqt "ckt " s wrkv { "y qqf "uo qng. "y krf hktg+. "cpf "uq"qp0"

Day 7 F cvg "aaaaaaaaaaaaaaaaaaaa" " " " " F cvg "eqo r rvgf "aaaaaaaaaaaa"

	Midnight	7am to	11am to	1pm to	5pm to	9pm to
--	----------	--------	---------	--------	--------	--------

	to 7am	11am	1pm	5 pm	9pm	Midnight
Number of people in home	"	"	"	"	"	"
Cooktop use Number of minutes	"	"	"	"	"	"
Oven use Number of minutes	"	"	"	"	"	"
BBQ/outdoor grill Number of minutes	"	"	"	"	"	"
Vacuuming Number of minutes	"	"	"	"	"	"
Window Use Number of minutes	"	"	"	"	"	"
Other notable* indoor/outdoor events	"	"	"	"	"	"

"Hqt"gzco r ng."wug"qh'ht gr mreg."ecpf ng."ckt'ht guj gpgt."ckt"erpcpgt."j wo kf kkgd."wpwucn'qwf qqt'ckt"  
s wcrk\{"\*y qqf "uo qng."y kf hkg+."cpf "uq"qp0"

"  
"

**Thank you for completing this data log!"**

"

Vj g'lpqto cvkqp"{qwr tqxkf gf 'y knj gr 'wu'lpvgr tgv'y g'o gej cplecn'xgpwcvkqp"cpf 'kpf qqt'ckt "  
s wcrk\{"o gcuwgo gpw'y cv'tg'i cyj gtgf 'htqo "{qwt'j qo g0Y g'i tgcw\{"cr rtgekyg"{qwt'ko g'cpf "  
ghqt v'lp'r tqxkf lpi 'wu'y kj 'y ku'f cvc0'

"

Rngcug'vcng"c"o qo gpv'q'i kxg'wu'hggf dcentlqp"{qwt'gZR gtkgpeg"cu'c"uwf {"r ct v'ekr cpv'lp'y ku'uwf {0'  
Y g'y qwf 'hng'v'npqy "cp{"uwi i gukqpu"{qwo c{"j cxg'qp"j qy 'y g'ecp"o cng'y ku'tgugctej "o qtg"  
eqpxgplgpv'cpf 'y qtj y j kng'v"{qwoRtqxkf lpi 'y ku'lpqto cvkqp'ku'xqnpvct {0[ qwt'kpr wu'ecp'j gr "  
wu'ko r tqxg'qwt'hwmg'tgugctej 'y qtn0"

"

"  
"  
"  
"  
"  
"  
"

**E. Welcome to the 2015 California New Homes Survey!**

Vj ku'lwtxg{ 'ku'r ctv'qh'c'tgugctej 'uwf { "qp'pgy 'j qo gu'lp'Ecrkqtplc0Vj ku'tgugctej 'y knj gr 'kphqto " j qy 'pgy 'j qo gu'ecp'r tqxkf g'cf gs wcv'xgpvkrvkqp'cpf 'i qaf 'kpf qqt'ck's wcrkv{ . 'y j krg'tgf wekpi "ck" kphkrcvkqp'cpf "gpgti { 'wug0"

Vj ku'lwtxg{ 'cng'u'cdqww'37'o kpwgu'v'eqo r rvg0K'cumu's wguvkqpu'cdqww'{ qw'j qo g. 'j qwugj qrf " cevkkkgu."cpf 'f go qi tcr j kcu0[ qw'ecp'unkr 's wguvkqpu'v'cv'{ qw'f q'pqv'y cpv'v'q'cpuy gt0"

Vj ku'tgugctej 'ku'dglpi 'eqpf wevgf 'd{ 'Ncy tpeg'Dgtngrg{ 'P cvkqpcn'Ncdqtcvqt { \*NDP N+y kj " hwpf kpi 'Itqo 'v'g'Ecrkqtplc'Gpgti { 'Eqo o kuukp0T guwnu'y kn'dg'wugf 'qpn{ 'hqt'tgugctej "qp'j qy " v'q'r tqxkf g'cf gs wcv'xgpvkrvkqp'cpf 'ko r tqxg'kpf qqt'ck's wcrkv{ 0K'qtf gt'v'q'r tqvev'{ qw'r tkxce{ . " v'j g'f cv'y kn'dg'gpet { r vgf "cpf 'r cuuy qtf 'r tqvevgf 0'

Rrgcug'tgwtp" { qw'eqo r rvgf 'lwtxg{ 'kp'v'j g'gpxgmr g'r tqxkf gf 0"

Ki{ qw'j cxg's wguvkqpu'cdqww'v'j g'tgugctej 'uwf { . 'r rgcug'eqpvce<'  
O cz "Uj gto cp.'Rj (F 0'  
Rtlpek cn'kpxguki cvqt. "Tgukf gpvkn'Dwrf kpi 'U{ uvgu u'I tqw "  
Ncy tpeg'Dgtngrg{ 'P cvkqpcn'Ncdqtcvqt { "  
[o j u j g t o c p B n r f l q x](#) " " \*732+6: 8'6244"

"  
"

"  
"

Eqf g'pwo dgt'hqt'j qo g'aaaaaaaa " " "\*\*\*\*\*F cv'eqo r rvgf 'aaaaaaaaaaaaaaaa "

"  
"

Rrgcug'cpuy gt'v'j g'dguv'qh' {qwt'npqy rgi g0[ qw'ecp'unkr 'cp { 's wguv'kpu'vj cv' { qw'f q'pqv'y cpv' cpuy gt0

**A. Home and Household Characteristics**

"  
"

30 Y j cv' { gct'y cu' { qwt'j qwug'dwknA"  
 [ gct'Dwkn<í í í í í "

"  
"

40 Y j cv' { gct'f'k' { qw'o qxg'lpv'j ku'j qo gA"  
 [ gct'O qxgf "k<í í í í í 0'

"  
"

50 Ctg' { qw'vj g'htuv'qy pgt'qh'vj g'r tqr gtv' A' " " " [ gu'f'P q"

"  
"

60 ""J qy 'o cp { 'r gqr rg'ewttgpv' { 'kxg'lp' { qwt'j qo gA"  
 ""P wo dgt'qh'Rgqr rg<í í í í í 0'

"  
"

**B. Air Quality In and Around Your Home**

"  
"

70 Vq'y j cv'gzv'p'ctg' { qw'ucv'uhgf "qt'f'kucv'uhgf 'y kj 'vj g'lp'f'qqt'ck's wcrkv'lp' { qwt'j qo gA"

"  
"

Xgt { " Fkucv'uhgf "	"	"	"	P gwten'	"	"	"	Xgt { " Ucv'uhgf "
<input type="checkbox"/>								

"  
"

80 J qy 'y qwf' { qwt'cv'vj g'qwf'qqt'ck's wcrkv' 'pgct'y j gtg' { qw'h'kxgA"

"  
"

Xgt { " Rqqt "	"	"	"	P gwten'	"	"	"	Gzegmpv'
<input type="checkbox"/>								

"  
"

90 J qy 'y qwf' { qwt'cv' { qwt'j qo g'lp'r tqv'v'pi' { qw'lt'qo "qwf'qqt'ck'r qmw'k'pA"

"  
"

Xgt { " Kpgh'v'kxg "	"	"	"	P gwten'	"	"	"	Xgt { " Gh'v'kxg "
<input type="checkbox"/>								

"  
"

"  
"

"  
"





í í 0Qvj gt0Rngcug'f guetkdg<í í í í í í í í í í í í 0'  
"

**E. Occupancy and Indoor Activities**

3: 0 Qp'cxgtci g.'j qy 'o cp{ 'j qwtu'r gt'f c{ 'ku' { qwt'j qo g'qeew kpf 'd{ 'cv'ngcuw'qpg'r gtuqp."  
kpenwf kpi 'f c{ 'cpf 'pki j v'j qwtuA"

	Hgy gt'y cp": " j qwtu'r gt'f c{ "	: 'vq'34'j qwtu' r gt'f c{ "	34'vq'38'j qwtu' r gt'f c{ "	38'vq'42'j qwtu' r gt'f c{ "	O qtg'y cp'42" j qwtu'r gt'f c{ "
Y ggnf c{ "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y ggnpf "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3: 0 Qp'cxgtci g.'j qy 'o cp{ 'vko gu'r gt'y ggnlku' { qwt'eqqmqr 'cpf lqt'qxgp'wugf 'hqt'eqqnkpi ."  
kpenwf kpi 'dqk'kpi 'y cvgtA"

	2'vko g" r gt'y ggnl'	3'vq'4'vko gu' r gt'y ggnl'	5'vq'6'vko gu' r gt'y ggnl'	7'vq'8'vko gu' r gt'y ggnl'	9'vko gu" r gt'y ggnl'
Dt gcn'ncuv'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Nwpej "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
F kppgt "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Qvj gt'eqqnkpi "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

420 Qp'cxgtci g.'j qy 'o cp{ 'vko gu'r gt'y ggnl'f q'vj g'hqmjy kpi 'cevxkkgu'qeew 'kpu'f g" { qwt'j qo gA'  
Gpvt 'o2o'kh'qeewtt'ppeg'ku'nguu'f'gs wgp'v'j cp'qpeg'c'y ggn0'

Wug'uj qy gt" " " \*Vko gu'r gt'y ggnl'í í í í í í í "   
Wug'dcvj 'qt'kpf qqt 'lcew| k"\*Vko gu'r gt'y ggnl'í í í í í í í "   
Wug'f kuj y cuj gt" " " \*Vko gu'r gt'y ggnl'í í í í í í í "   
Wug'y cuj kpi 'o cej kpg" " \*Nqcf u'r gt'y ggnl'í í í í í í 0'   
J cpi 'emvj gu'vq'f t { 'kpf qqtu" \*Nqcf u'r gt'y ggnl'í í í í í í 0'

**F. Window and Door Opening**

430 Qp'cxgtci g.'j qy 'o cp{ 'j qwtu'r gt'f c{ 'ctg" { qwt'y kpf qy u'qr gp'kp" { qwt'j qwugA"

	2'j qwt'r gt' f c{ "	3'vq'4'j qwt' r gt'f c{ "	4'vq": 'j qwtu' r gt'f c{ "	: 'vq'38" j qwtu'r gt' f c{ "	O qtg'y cp'38" j qwtu'r gt'f c{ "
Uwo o gt"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hcni'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y kpgt "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ur tkpi "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

440 Qp"cxgtci g."j qy "qhgpf"fq"{qw'hcxcg}{qwt'dgftqqo 'y kpf qy u'qr gp'cv'pki j v'y j gp}{qw'unggr A"

	2'ko g" r gt'y ggnl'	3'vq'4'ko gu" r gt'y ggnl'	5'vq'6'ko gu" r gt'y ggnl'	7'vq'8'ko gu" r gt'y ggnl'	9'ko gu" r gt'y ggnl'
Uwo o gt"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hcm'	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Y kpgt"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Ur tkipi "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

450 Qp"cxgtci g."j qy "qhgpf"fq"{qw'hcxcg}{qwt'dgftqqo 'f qqt"qr gp'cv'pki j v'y j gp}{qw'unggr A"

	2'ko g" r gt'y ggnl'	3'vq'4'ko gu" r gt'y ggnl'	5'vq'6'ko gu" r gt'y ggnl'	7'vq'8'ko gu" r gt'y ggnl'	9'ko gu" r gt'y ggnl'
F qqt"Qr gp"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### G. Indoor Activities

460 Qp"cxgtci g."j qy "qhgpf"fq'v'j g'hqmry kpi "ce'v'k'k'gu'qeew'k'pukf g"{qwt'j qo gA"

	P gxgt"	Hgy 'ko gu" c"{gct"	Hgy 'ko gu" c'o qpvj "	Hgy 'ko gu" c'y ggnl'	Gxgt{'f c{"
Uo qnkipi "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Dwp'ecpf rg'qt'k'pegpug"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Xcewwo kpi "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wug'engcpkpi 'ci g'pv'ht'htqt" engcpkpi "	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wug'ur tc{"ckt'htgij gpgt"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wug'r g'v'k'f g'ur tc{"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wug'r ck'p'u.'i n'v'g.'u'q'k'g'p'u'g'f'0" j qdd'k'g'u.'j qo g't'g'r'c'k'u'+"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wug'j wo k'k'ht"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wug'f g'j wo k'k'ht"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

### H. Other Indoor Sources

470 Ctg'r nwi /k'p'qt'u'k'em'ck't'htgij gpgtu."qt'q'v'j g't'ueg'p'v'g'f'f'geqtc'v'k'p'u.'wugf'k'p"{qwt'j qo gA"

- í í 0l gu"
- í í 0P q"
- í í 0F qpø'hpqy "

480 F q'qeew cpv'u'y gct'uj qgu'k'p"{qwt'j qo gA"

- í í 0l gu"
- í í 0P q"
- í í 0F qpø'hpqy "



"  
"

550 Y j cv'ku'yj g'j ki j guv'gf wecvkqp'ngxgn'qh'j gcf "qh'j qwugj qrf A"

- í í 0P q'uej qqrkpi "eqo r ngvgf "
  - í í 03"vq": 'i tcf g"
  - í í 0; 'vq"34' 'i tcf g"
  - í í 0E qo r ngvgf 'j ki j "uej qqr'j ki j "uej qqr'f kr mo c. I GF "et gf gpvkcn"
  - í í 0U qo g'eqmgi g"
  - í í 0Cuuqekcvga'f gi tgg"
  - í í 0Eqmgi g'f gi tgg" Dcej gmta'f gi tgg+"
  - í í 0I tcf wevg'f gi tgg" O cvgt. Rtqhgukqpcn'uej qqn 'F qevqtcvg'f gi tgg+"
- "  
"

560 Rngcug'kpf lecv'cm'tcegu'cpf lqt 'gyj plekkgu'qh'r gqr ng'hk'kpi 'kp' {qwt'j} qwugj qrf 0'

- í í 0Co gtlecp'kpf kcp. 'Crcune'P cvkxg"
  - í í 0Cukcp'qt 'Rcekhe'Kucpf gt"
  - í í 0Drcem'Ch'lecp'Co gtlecp"
  - í í 0J kur cple'l'Ncvkq"
  - í í 0Y j kg. 'Ecvcekcp"
  - í í 0Qvj gt. 'ur gekh{ <í í í í í í í 0'
  - í í 0O kzgf 'tceg. 'ur gekh{ <í í í í í í í 0'
- "  
"

570 Y j cv'ku'yj g'vqcn'kpego g'qh'cm'o go dgt \*u+'qh' {qwt'j} qwugj qrf "eqo d'kpgf A"

- í í 0Nguu'yj cp"&57.222"
  - í í 0&57.222"vq"&6; .; ; ; "
  - í í 0&72.222"vq"&96.; ; ; ; "
  - í í 0&97.222"vq"&; .; ; ; ; "
  - í í 0&322.222"vq"&372.222"
  - í í 0I tgcvt'yj cp"&372.222"
- "

**K. End of Survey**

"

Vj cpni{ qw'ht' h'kpi "qw'yj ku'wtxg{ #I qwt'f cv'ku'xgt { 'xcwcdrg'vq'qwt'wpf gtucpf kpi "qh'kpf qqt"  
ck't's wcrk{ 'cpf "o gejj cplecn'xgpvkcvkqp'kp'pgy 'Ecrkqtplc'j qo gu0"

"

Rngcug'tgwtp" {qwt'eqo r ngvgf 'wtxg{ 'kp'yj g'r tg/r ckf "gpxgnr g'r tqxkf gf 0"

"

Ki' {qw'j} cxg'cp { 's wguv'kpu'cdqww'yj g'wtxg{ . 'r ngcug'eqpvcv<"

- O cz "Uj gto cp. 'Rj (F 0'
- Rt'kpek' cn'kpxguki cvqt. "Tgukf gpvkcn'Dwkrf kpi "U{ uvgu u'I tqw "
- Ncy tgepeg'Dgtngng{ 'P cvkqpcn'Ncdqtcvqt { "
- [o j uj gto cpB ndrñ qx](#) " " \*732+6: 8'6244"

"

Hqt'o qtg'kphqto cvkqp'cdqww'yj g'tguwma'qh'yj ku'wtxg{ . 'r ngcug'xkuk'qwt'y gdukg<"  
j wr <lj gpi j 0ndrñ qx I"

## F. Setup IAQ Instruments and Activity Sensors

### Setup of Outdoor PM Instruments

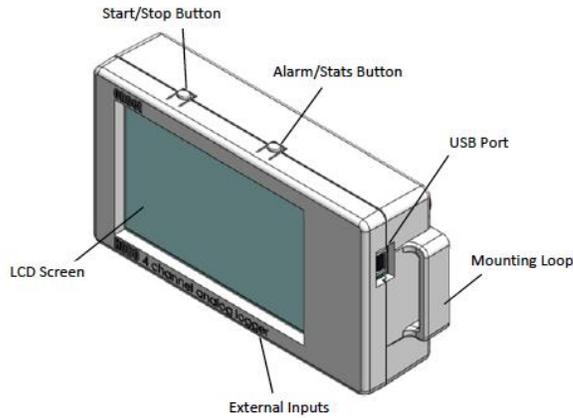
- "
- 30 J qwug'K <aaaaaaaa "F cvg<aaaaaaaa "Vko g<aaaaaaaa "Vgej plekcp<aaaaaaaa "
- "
- Qwf qqt'RO "Kputwo gpv'K <aaaaaaaaaaaaaaaa "g0 0'RO Qa223+"
- "
- 40 Hkpf "cp"qwf qqt "grgextlecn'qwrw0'Rwi "kp"cp"qwf qqt'y gcvj gtr tqqh'gz vgpukqp"eqtf "\*322'hw" 38/i cwi g+0'
- "
- Cff "**DO NOT UNPLUG**"rdgn'qp'yj g"qwrwv'cu'c'tgo kpf gt0'
  - Wug'r gf gutkcp"ecdrgeqxtg'tco r "T'twddgt'hmqtt'eqtf "eqpegrgt'vq'r tgxgpv'tkr " j c| ctf 0'
- "
- 50 Fkuewuu'y kj "uwf { 'r ct vkr cpv'vq'kf gpvkh{ 'c'uwkcdrg'hqecv'kqp'hqt'ugw'kpi "wr 'yj g'tkr qf 0'"
- "
- Cv'rgcu'32'hw'hwqo "yj g'pgctguv'gz vgtkqt'qh'yj g'j qwug0'
  - Cv'rgcu'32'hw'hwqo "qwf qqt'DDS 'i tkm'hktgr kw'qvj gt'eqo dwukqp'uqwtegu0'
  - Cxqkf 'hcy p'ur tlpmtu0"
- "
- 60 Ugwr 'yj g'tkr qf "cv4/o 'j gli j v'cv'kprgv0'Ugewt g'tkr qf "d{ "cpej qtkpi 'hgi u'vq'yj g'i tqwvf 0'
- "
- 70 Kpu'cni'RO 40'e{ empg'cpf 'y gcvj gtr tqqh'VUR'kprgv0'0 qwpv'yj g'O gvQpg'GU/864"qp'yj g' vkr qf 0'
- "



Hki wtg'3'O gvQpg'GU/864"qp'yj g'tkr qf "

- "
- 80 Eqppgev'yj g'Qpugvf cvc'hqi i gt'vq'yj g'2/32'XFE"qwr w'qh'yj g'O gvQpg'GU/8640"
- "
- c0 Uctv'Qpugvf cvc'hqi i gt'd{ 'r tguu'cpf 'j qrf "Uctv'Uxqr "dwwqp'hqt "5'ugeqpf u0"
- d0 Qpugvf cvc'hqi i gt'y kn'uj qy p'yj cv'yj g'hqi i gt'ku'ewttgpw{ 'hqi i kpi 0'

**LOGGING** The logger is currently logging.



Hki wtg"4"Qpgugv'f cvc'hqi i gt"

"

90 Rqy gt/wr 'O gvQpg'GU/864'cpf "uvtv'qr gtcvkqp0'

"

Uctv'Vko g<aaaaaaaaaaaaaaaaaaaaaa"

"

Chgt\ GTQPI . 'yj g'lpwtwo gpv'y kn'uvtv'UCO RNI 0Tgeqtf 'yj g'hmqy lpi <

"

EQPE<aaaaaaaaaaaaaaaaaaaaaa "% i +" VGO R<aaaaaaaaaaaaaaaaaaaaaa "%qE+"

"

TJ <aaaaaaaaaaaaaaaaaaaaaa "%\* +" DR<aaaaaaaaaaaaaaaaaaaaaa "% dct+"

"

HNQY <aaaaaaaaaaaaaaaaaaaaaa "%r o +"

"

: 0 Cwcej "cp'Qpugv'Gperqugf "Vgo r gtcwtgII grv'xg"J wo kf k{ 'F cvc'Nqi i gt "v'j g'tkr qf 0"

"

VITJ 'F cvc'Nqi i gt "F <aaaaaaaaaaaaaaaaaaaaaa "%g 0VTQa233+"Vko g<aaaaaaaaaaaaaaaaaaaaaa "

"

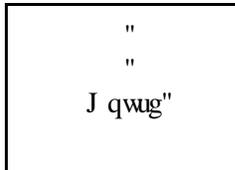
; 0 Vcng'c'rj qv"qh'yj g'O gvQpg'GU/8640"

"

320 Ungvej 'r qukkqp'cpf "guko cvg'f kvcpeg'dgy ggp'yj g'lpwtwo gpv'cpf 'yj g'j' qwug.'qwf qqt"

DDS . 'i tkm'hkgr kw."qt"qvj gt"eqo dwukqp"uqwtegu0"

Htqpv'



Dcenl'

## Side-by-Side Comparison of Outdoor and Indoor PM Instruments

"

30 J qwug'KF <aaaaaaaa "F cyg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekcp<aaaaaaaa "

"

Qwf qqt'RO 'kputwo gpv'KF <aaaaaaaaaaaaaaaaaaaa "g0 0'RO Qa223+"

"

kpf qqt'RO 'kputwo gpv'KF <aaaaaaaaaaaaaaaaaaaa "g0 0'RO Ka223+"

"

40 Qwf qqt'RO 'kputwo gpv'O gvQpg'GU/864+'uj qwf "dg"qr gtcv'kpi 'cpf 'hji i kpi 'f cv0"

"

50 Ugv'wr "c'rf f gt 'pgzv'v'j g'qwf qqt'RO 'kputwo gpv0"

"

60 Rrreg'yj g'kpf qqt'RO 'kputwo gpv'O gvQpg'DV/867. 'kpkf g'yj g'gperuwtg'dqz+'pgct 'yj g' qwf qqt'kputwo gpv0Rtghgtcdn' 'y kj kp'5'h/kp'f kucpeg.'cpf 'y kj kp'3'h/kp'j gli j 0"

"

70 Rqy gt "qp'yj g'kpf qqt'RO 'kputwo gpv'v'wp'qp'dcwtg { "kputwo gpv'y km'qr gtcv'ht'cdqw' 32'j qwtu'qh'eqp'kwqwu'uco r r'kpi 'y j gp'hwm' 'ej cti gf +0"

"

80 Uctv'uco r r'kpi 'd { 'r tguulpi 'yj g'UCO RNG'ng { 0"

"

Uctv'Vlo g<aaaaaaaaaaaaaaaaaaaaaaaaaaaa "

"

90 kpuclm'yj g'RO 40'e { empg'cpf 'y gcvj gtr tqqh'VUR'kprgv'v'j g'kpf qqt'RO 'kputwo gpv0"

"

: 0 Vcng'c'rj qv'qh'yj g'y q'RO 'kputwo gpv<"

"

c0 Hwtvj gt 'cy c { 'rj qv'uj qy kpi 'yj g'y q'kputwo gpv.'r tghgtcdn' 'y kj 'yj g'j' qwug'cu' dceni tqwvf 0"

"

c0 Ernug/wr 'rj qv'uj qy kpi 'yj g'uco r r'kpi 'kprvu'qh'dqvj 'kputwo gpv0"

"

; 0 Cmry 'yj g'qwf qqt'cpf 'kpf qqt'RO 'kputwo gpv'v'uco r rg'ht'3'j qwt0"

"

320 Uqr 'yj g'kpf qqt'RO 'kputwo gpv'd { 'r tguulpi 'yj g'UCO RNG'ng { 0"

"

Gpf 'Vlo g<aaaaaaaaaaaaaaaaaaaaaaaaaaaa "

"

"

"

"

"

## Range Hood Use Data Logging

```

"
30 J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej pkekcp<aaaaaaaa "
"
40 Tcpi g'j qqf "f guetkr vkqp<"
"
c0 O qwpv\{r g<aaaaaaaaaaaaaaaaaaaaaaaa "wpf gt "ecdkgv.'y cm'kurcpf.'f qy pf tchv"
"
d0 F ko gpukqpu'qh'tcpi g'j qqf <aaaaaaaa "j gki j v.'C+"
"
"*****"aaaaaaaa"y kf vj .'D+."aaaaaaaa"fg r vj .'E+"
"

```



Hki wtg'5"Tcpi g'j qqf "f guetkr vkqp"

```

e0 Eqxgtci g<t'cpi g'j qqf "gzv'pf "q'y kf vj "qh'eqqmkpi "i tcv'gA[" "TP "
"
" " "*****"fg r vj "qh'eqqmkpi "i tcv'gA[" "TP "
"
" F ko gpukqpu'qh'eqqmkpi "i tcv'g<aaaaaaaa "y kf vj .'D+."aaaaaaaa"fg r vj .'E+"
"
f0 I tgcug'uetggp"Thk'ngt'eqpf k'kqp<aaaaaaaaaaaaaaaaaaaaaaaa "pgy .'wugf.'fktv{ "+"
"
50 Uctv'Fki k'Ugpug"cpgo qo g'vgt"
"
Fki k'Ugpug"CPgo qo g'vgt'KF <aaaaaaaaaaaaaaaa "g'f 0'CP O a233+"
"
c0 TGE'uj qwf "double-flash green"gxgt {"32"ugeqpf u'q'lpf kecvg'y cv'k'ku'lp'o cpwcn'
o qf g'ux'cpf d{"
"
d0 Vq'ux'tv'mji i kpi ."press yellow button"wp'v'k'5"i tggp'hr'uj gu'cpf "3'tgf "hr'uj gu"
"
e0 One green flash"*TGE+'gxgt {"32"ugeqpf u'q'lpf kecvg'y cv'k'ku'p'qy "rqi i kpi "
"

```

60 Cwcej 'y g'F ki k'Ugpug'Cpgo qo gvt'y kj 'l kr/vg'qt'y kj 'o ci pgvle'eco gtc'wcpf 0C rki p'y g' xcp g'y kj 'y g'f kt gev k p'qh'y g'ck hny 'cu'uj qy p'dgny <

"



Hki w g'6'F ki k'Ugpug'Cpgo qo gvt'v'y g'tcpi g'j qqf "

"

70 Vwtp"qp'tcpi g'j qqf 'hqt'5'o kpwgu'cv'gej 'hcp'ur ggf 'ugwki 0Tgeqt f'y g'wctv'cpf "gpf " vko g0'

"

Hcp'Ugwki "	Uctv'Vko g"	Gpf "Vko g"
J ki j "	"	"
Nqy "	"	"
O gf "	"	"

"

"

80 Vcng'c'rj qv'qh'y g'tcpi g'j qqf 'y kj 'y g'F ki k'Ugpug'Cpgo qo gvt'cwcej gf 0'

"

90 Vcng'c'emugw 'rj qv'qh'y g'tcpi g'j qqf 'hcp'ur ggf "eqptqr0"

"

## Cooktop Use Data Logging

```

"
30 J qwug"K <aaaaaaaa "F cyg<aaaaaaaa "Vko g<aaaaaaaa "Vgej plekp<aaaaaaaa "
"
40 Vcng"c"rj qq"qh'eqqm"pi "cr r nkpegu<
"
    c0 Eqqmqr "*"i cu"lTgrge"tle+"uj qy kpi "dwtpgtu"cpf "ugw"kpi u"
"
    d0 Qxgp*"i cu"lTgrge"tle+"uj qy kpi "gzvgtpcn"kpvtpcn"cpf "ugw"kpi u"
"
50 Ugewtg"lDwwqp"v"q"eqqmqr "*"pgct"dwtpgtu"cpf "qxgp*"qp"gzvgtkqt"fqqt+"wukpi "j ki j "
    vgo r gtcwtg"vcr g"qt"o ci pg0'
"

```



Hi wtg"7"lDwwqp"r rcegf "qp"vj g'eqqmqr "

```

60 Vwtp"qp"eqqm"pi "cr r nkpegu"OTgeqtf "vj g"uvctv"cpf "gpf "vko g0'
"
    c0 Vwtp"qp"tcpi g"j qqf "cvj ki j guv"ugw"kpi 0'
"
    d0 Qr gtcvg"ugs wgpv"cm{"hghv"dcem"hg"v"htqpv."tki j vdcem"cpf "tki j v"htqpv"dwtpgtu"cv'
        o gf kwo "j gcv"ht"5"o kpwgu"gej 0"
"
    e0 Qxgp"ugv"v"q"622"qE"ht"7"o kpwgu0"
"

```

"	lDwwqp"K "	Uctv"Vko g"	Gpf "Vko g"
Eqqmqr "" *NghvDcem"	"	"	"
Eqqmqr "" *NghvHtqpv"	"	"	"

Eqqmqr "" *Tki j vDcem"	"	"	"
Eqqmqr ""*Tki j vHtqpv"	"	"	"
Qxgp"	"	"	"

"

70 Vcng" c'rj qv"qh'eqqncpi "crr ncpegu'y kj 'y g'kDwwqpu"cwcej gf 0"

"

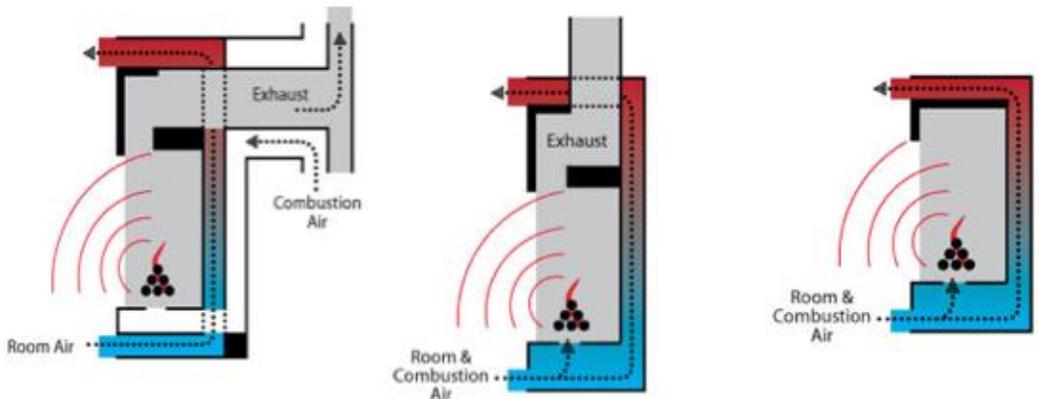
80 Vwtp"qh'h'tcpi g'j qqf 0'

## Gas Fireplace Use Data Logging

```

"
30 J qwug'kF <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekp<aaaaaaaa
"
40 Hkgr rneg'f guetkr vkqp"
"
    c0 Nqecvkqp*tqqo +<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
    "
    d0 V{r g"kpugt v"mji /ugv"gv0<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
    "
    e0 Hwgn*pcwtcnfi cu.'r tqr cpg+<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
    "
    f0 Xgpvuv{rg<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
"
"
"

```



**Direct Vent                      B-Vent / Natural Vent                      Ventless\***

Hk wtg'8"Xgpvuv{rg"

```

"
, 'Cf xklug'uwf { 'r ct vlek cpv'j cv'xgpvrgu' hktgr rneg'ku'knji cn'lp'EC0Uwf { 'r ct vlek cpv'o wuv'
ci tgg'P QV'vq'wug'xgpvrgu' hktgr rneg'f wtkpi 'yj g'qpg/y ggm'o qpkqt kpi 'r gtkqf 0"
"

```

```

50 Vcng'c'r j qv'qh'y j g'hktgr rneg0"
"
60 Ugewtg'kDwwqp'vq'pgct'y j g'j gcvgf 'tqqo 'ck'qwwgv'wukpi 'j ki j 'vgo r gtcwtg'vcr g'qt'o ci pgv0"
"
    kDwwqp'kF <aaaaaaaaaaaaaaaa
"
70 Vwtp'qp'hktgr rneg'hqt'32'o kpwgu0Tgeqtf 'yj g'uactv'cpf "gpf "vko g0"
"
    Uctv'Vlo g<aaaaaaaaaaaaaaaaaaaaaaaa "*****"Gpf "Vlo g<aaaaaaaaaaaaaaaaaaaaaaaa
"
80 Vcng'c'r j qv'qh'y j g'hktgr rneg'y kj 'yj g'kDwwqp'cwcej gf 0"

```



40 Rnwi 'yj g'CE'r qy gt'cf cr vgt'lpvq'vj g'f cvc'hqi i gt.'yj gp'r nwi 'yj g'hqi i gt'lpvq'cp'qwwg0"

"

50 Rnwi 'yj g'emqj gu'f t { gt'r qy gt'eqt f 'lpvq'vj g'ugengv'qp'vj g'ghv'qh'vj g'f cvc'hqi i gt0"

"

60 Ej gen'vj cv'vj g'r nwi 'hcf 'f cvc'hqi i gt'ku'ugv'wr 'cu'hqmjy u<

"

**MEM USED**  
■■■■■□

The logger has been configured to stop logging when memory fills. The memory bar indicates the approximate space remaining in the logger to record data. When first launched, all five segments in the bar will be empty. In this example, the logger memory is almost full (only one segment in the memory bar is empty).

"

**LOGGING**

The logger is currently logging (see *Setting up the Logger to Record Data*).

"

**LINE**

A device is connected to the AC line. ..

"

70 Twp'vj g'emqj gu'f t { gt'cv'öpqt o cri'qt'ör gt o cpgpv'r tguuö'ugv'kpi 0'

"

80 P qv'vj g'ce'xg'r qy gt'tgeqt f gf 'd { 'yj g'r nwi 'hcf 'f cvc'hqi i gt0'

"

Ce'xg'r qy gt '\*Y +<aaaaaaaaaaaaaaaaaaaaaa'"

"

**205.3**  
W

This is an example reading for active power. It is located in the lower left quadrant of screen 1.

"

90 Vcng'c'r j qv'qh'vj g'r nwi 'hcf 'f cvc'hqi i gt0'

"

**Method II: Using Digi-Sense Anemometer (if vent is accessible)**

"

30 Ej gen'v'ugg'h'F ki k'Ugpug'Cpgo qo gvt'ecp'dg'ugewt'gf 'cpf'r tqvgev'f'it'qo 'y gc'vj gt' gng'gpw'\*g0 0'tclp+'vj cv'ecp'f'co ci g'vj g'f gx'leg0"

"

40 Uctv'F ki k'Ugpug'Cpgo qo gvt"

"

F ki k'Ugpug'Cpgo qo gvt'F <aaaaaaaaaaaaaaaaaa '\*g0 0'CP O a233+"

"

c0 TGE'uj qwf '**double-flash green**'gxgt { '32'ugeqpf u'v'kpf'kcv'vj cv'k'ku'k'p'o cpwcn' o qf g'ux'pfd { "

"

d0 Vq'ux'tv'hqi i kpi .'**press yellow button**'wp'vkl'5'i tggp'hrcuj gu'cpf '3'tgf 'hrcuj gu"

"



## Exhaust Fan Use Data Logging

"

30 J qwug"Æ <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej pkekp<aaaaaaaa "

"

40 Vcng"c"rj qvq"qh"vj g"gzj cwv'hcp"i tkng0"

"

50 Cwcej "cp"Qpugv'Gperqugf "Vgo r gtcwtgΠ grv'xg"J wo kf kv' "F cvc'Nqi i gt"vq"vj g"gzj cwv' hcp"i tkng"hw'ndcvj "QPN[-0]"

"



Hki wtg": "Qpugv'gperqugf "vgo r gtcwtgΠ grv'xg"J wo kf kv' "F cvc'ni i gt"vq"vj g"gzj cwv'hcp"i tkng "

Gzj cwv'hcp"	VITJ "F cvc'Nqi i gt"Æ "	Vlo g"
O cugt'Dcvj tqqo ""	VTQa"	"
Qvj gt'Dcvj tqqo "3"	VTQa"	"
Ncwpf t{"Tqqo ""	VTQa"	"

"

"

### Method I: Using Digi-Sense Anemometer

"

30 TGE"uj qwf "**double-flash green**"gxgt {"32"ugeqpf u"vq"lpf kecvg"vj cv"vj g"cpgo qo gvt"ku'lp" o cpwcn'ò qf g'ucpf d{0"

"

40 Vq'u'vctv'ni i kpi .**press yellow button**"vp'krl'5"i tggp'h'ruj gu'cpf "3"t'gf 'h'ruj gu0"

"

50 **One green flash**"\*TGE+"gxgt {"32"ugeqpf u"lpf kecvg"vj cv'k'ku'pqy "ni i kpi 0"

"

60 Cwcej "vj g'F ki k'Ugpug'Cpgo qo gvt'y kj "l k'v'kg"vq"gzj cwv'hcp"i tkng0Crki p'vj g'x'cpg'y kj " vj g'f'k'ge'v'qp"qh"vj g'ck'h'ny "cu'uj qy p'dgm'y <"

"



Hki wtg"; "F ki k'ugpug"Cpgo qo gvt'y kj 'l kr /vg"vq"gzj cwv'hcp'i tkrng"

70 Hqt"gzj cwv'hcp'eqptqmgf "d{ 'j wo kf kucv.'cng"e'emugwr 'r j qv"qh'yj g"vko gt "cpf "tgrv'kxg" j wo kf k{ "ugw'kpi 0"

"



Hki wtg"32"Gzco r rg"qh'yj g'emugwr 'r j qv"qh'gzj cwv'hcp'eqptqmgf "

"

80 Vcng"e'r j qv"qh'yj g"gzj cwv'hcp'y kj 'yj g"F ki k'Ugpug"Cpgo qo gvt"cwcej gf 0"

"



Hki wtg"33"Gzco r rg"qh'yj g'r j qv"qh'gzj cwv'hcp'y kj 'yj g"F ki k'Ugpug"Cpgo qo gvt"

"

90 Vwtp"qp"gzj cwv'hcp'hqt"4"o kpwgu0Tgeqtf "yj g'u'ctv'cpf "gpf "vko g0Tgr gc'v'f k'htg'p'v'hcp" ugw'kpi u'kh'yj g"gzj cwv'hcp"j cu'o wnk'ur ggf "eqptqit0"

"

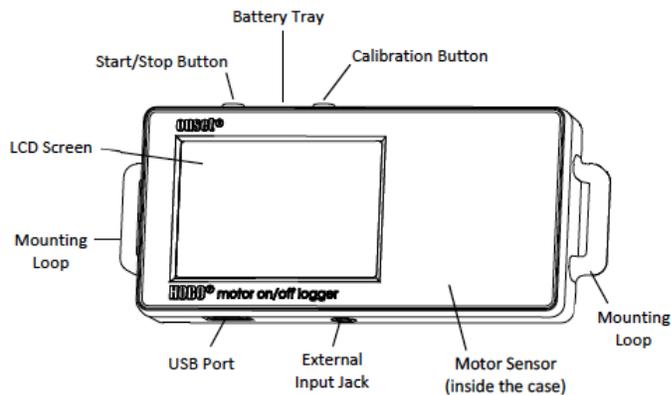
Gzj cwv'hcp"	F ki k'Ugpug"	U'ctv'vko g"	Gpf "vko g"
O c'vgt"D'cyj tqo "D'cyj ""	CPO a"	"	"

O cuxgt'Devj tqqo "Vqkrv"	CPO a"	"	"
Qyj gt'Devj tqqo "3"	CPO a"	"	"
Ncwpf t {"Tqqo ""	CPO a"	"	"

**Method II: Using Onset Motor On/Off Data Logger**

30 Rtguu'vj g'UctvUxqr "dwwqp'hqt"5"ugeqpf u'vq"uactv'hqi i kpi "F cvc0Ej geniNQI I KPI "f kur rc {"  
 qp'uetggp0'

Qpugv'O qvqt "QpIQhh'F cvc'Nqi i gt"KF <aaaaaaaaaaaaaaaa""Uctv'Vko g<aaaaaaaaaaaaaaaa"  
 " " " " " " \*gfi 0'O VTa233+"



Hki wtg"34"Qpugv'o qvqt "qp lqhh'f cvc'hqi i gt"

40 Cwcej 'vj g'o qvqt "qp lqhh'f cvc'hqi i gt"vq'vj g'gzj cwuv'hcp'dqf {"'pgct'vj g'o qvqt.'cu'uj qy p"  
 dgmjy <



Hki wtg"35"Gzco r rg'qh'vj g'o qvqt "qp lqhh'f cvc'hqi i gt"cwcej 'vj g'gzj cwuv'hcp'dqf {"

50 Ecrkdtcwg'vj g'o qvqt "ugpuqt"vq'vj g'CE"o ci pgve'hgrf "dglpi "o gcuwtgf 0"

"

c0 Vwtp"qp'vj g'gzj cwuv'hcp'y kj 'vj g'o qvqt "qp lqhh'f cvc'hqi i gt"cwcej gf 0"

"

d0 Rtguu'vj g'Ecrkdtcvg'dwwqp'hqt '3'ugeqpf 0Vj g'NEF 'uetggp'y km'f kur m { 'y g'uki pcr' utgpi y 'qh'vj g'o qvqt0Vj g'uki pcr'utgpi y 'uj qwf 'dg'cv'rcuv'5'dctu0Qtkgpv'vj g' nqi i gt'cu'pgeguuct { 'v'kpetgcug'vj g'uki pcr'utgpi y 0



This shows the signal strength of the motor being monitored. In this example, the signal strength is at full scale. See *Calibrating the Motor Sensor* for more details.

e0 Rtguu'vj g'Ecrkdtcvg'dwwqp'hqt '5'ugeqpf u'y j kg'öJ QNF ö'cr r gctu'qp'uetggp0Vj g' nqi i gt'y km'eqwpv'f qy p'v'vj g'cwq/ecrkdtevkqp'cpf 'y gp'f kur m { 'gkj gt'öRCUÜö'qt" öHCKNö'chgt'ecrkdtevkqp'ku'eqo r ngv0"

f0 K'öHCKNö.'tgr qukkqp'vj g'nqi i gt'emugt'v'vj g'o qvqt'cpf 'tgr gcv0"

60 Vwtp'qp'gzj cwv'hcp'hqt '3'o kpwg0Tgeqtf 'y g'uctv'cpf 'gpf 'vko g0Tgr gcv'cv'f hgtgpv'hcp" ugwkpi u'kh'vj g'gzj cwv'hcp'j cu'o wnk'ur ggf 'eqvqt0Ej gen'vj cv'vj g'f cv' hqi i gt'ku' tgr qpf kpi 'v'vj g'qp khh'qh'vj g'hcp'o qvqt0"

Gzj cwv'hcp"	F ki k'Ugpug" Cpgo qo gygt "Æ "	Uctv'Vko g"	Gpf 'Vko g"	O qvqt'Qp lQh' Uki pcr'Ej gen'
O cuvgt'Dcvj tqo "	O VTa"	"	"	[ "TP "
O cuvgt'Dcvj tqo "	O VTa"	"	"	[ "TP "
Qy gt'Dcvj tqo "3"	O VTa"	"	"	[ "TP "
Ncwpt t { 'Tqo "	O VTa"	"	"	"



The motor is off (internal sensor).



The motor is on (internal sensor).

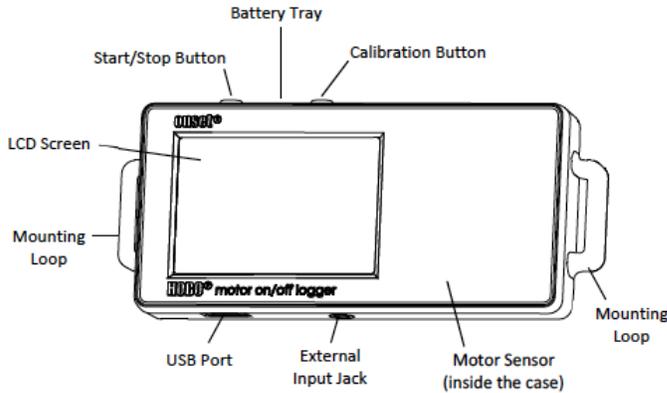
70 Vcng'c'rj qv'qh'vj g'gzj cwv'hcp'i tkng0"

## Supply Air Intake Data Logging

```
"
30 J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vko g<aaaaaaaa "Vgej pkekcp<aaaaaaaa"
"
"
```

### Method I: Using Onset Motor On/Off Data Logger for AC Fan

```
"
30 Rtguu'vj g'UctvUqr "dwwqp'hqt'5"ugeqpf u'vq'uactv'iqi i kpi 'f cvc0Ej gem'NQI I KPI 'f kur rc {"
qp'uetggp0'
"
Qpugv'O qvqt'QpIQH'F cvc'Nqi i gt'KF <aaaaaaaaaaaaaaaa "Uctv'Vko g<aaaaaaaaaaaaaaaa"
" " " " " " *gQ 0'O VTa233+"
"
```



Hki wtg'36"Qpugv'o qvqt'qp lqhh'f cvc'iqi i gt"

```
40 Cwcej 'vj g'o qvqt'qp lqhh'f cvc'iqi i gt'vq'vj g'kp/rkp'g'uxw r n' 'hcp0'"
"
50 Ecrkdtcv'vj g'o qvqt'ugpuqt'vq'vj g'CE'o ci pgv'e'hgrf "dglpi "o gcuwtgf 0'"
"
```

```
c0 Rtguu'vj g'Ecrkdtcv'gdwwqp'hqt'3"ugeqpf 0Vj g'NEF 'uetggp'y knif kur rc { 'vj g'uki pcrn'
utgpi vj "qh'vj g'o qvqt0Vj g'uki pcrn'utgpi vj 'uj qwf "dg'cv'rgcu'5"dctu0Qtkgpv'vj g"
mqi i gt'cu'pgeguuct { 'vq'kpetgcug'vj g'uki pcrn'utgpi vj 0'
```



**This shows the signal strength of the motor being monitored. In this example, the signal strength is at full scale. See *Calibrating the Motor Sensor* for more details.**

```
"
"
d0 Rtguu'vj g'Ecrkdtcv'gdwwqp'hqt'5"ugeqpf u'y j krg'öJ QNF ö'cr r gctu'qp'uetggp0Vj g"
mqi i gt'y knieqwpvf qy p'vq'vj g'cwq/ecrkdtcv'kp'cpf 'vj gp'f kur rc { 'gkj gt "öRCUÜö'qt"
öHC KÖ"chgt'ecrkdtcv'kp'ku'eqo r rvg0'"
"
e0 K'öHC KÖ.'tgr quksqp'vj g'iqi i gt'emugt'vq'vj g'o qvqt'cpf 'tgr gcv0'"
"
```

60 Twp'yj g'egpvtcn'ckt'j cpf rgt'hqt'32'o kpwgu0"

"

Uctv'Vko g<aaaaaaaaaaaaaaaaaaaaaa "\*\*\*\*\*"Gpf "Vko g<aaaaaaaaaaaaaaaaaaaaaa"

"

70 Vcmg'c'rj qvq'qh'yj g'Qpugv'O qvqt'QpIQhh'F cv'Nqi i gt0"

"

"

**Method II: Using Digi-Sense Anemometer (if air intake is accessible)**

"

30 Ej genlvq'ugg'kh'F ki k'Ugpug'Cpgo qo gvt'ecp'dg'ugevtgf "cpf 'r tqygev'f 'htqo 'y gcvj gt"  
grgo gpw'\*g0 0'tckp+'yj cv'ecp'f co ci g'yj g'f gxleg0"

"

40 Uctv'F ki k'Ugpug'Cpgo qo gvt"

"

F ki k'Ugpug'Cpgo qo gvt'F <aaaaaaaaaaaaaaaa "g0 0'CP O a233+"

"

c0 TGE'lj qvrf "**double-flash green**"gxgt { '32'ugeqpf u'vq'lpf lecvg'yj cv'k'ku'lp'o cpwcn'  
o qf g'ucpf d{ "

"

d0 Vq'uactv'iqi i kpi .'**press yellow button**'vp'kd'5'i tggp'hcuj gu'cpf '3'tgf 'hcuj gu"

"

e0 **One green flash** '\*TGE+'gxgt { '32'ugeqpf u'lpf lecvg'yj cv'k'ku'pqy 'iqi i kpi "

"

50 Cwcej 'yj g'F ki k'Ugpug'Cpgo qo gvt'vq'uwr r n' 'ckt'lpvcng0"

"

60 Twp'yj g'egpvtcn'ckt'j cpf rgt'hqt'32'o kpwgu0"

"

Uctv'Vko g<aaaaaaaaaaaaaaaaaaaaaa "\*\*\*\*\*"Gpf "Vko g<aaaaaaaaaaaaaaaaaaaaaa"

"

70 Vcmg'c'rj qvq'qh'yj g'uwr r n' 'ckt'lpvcng'y kj 'yj g'F ki k'Ugpug'Cpgo qo gvt'cwcej gf 0"

"

"

"



"

70 Vcng'c'rj qv"qh'y g'lw r r n' 'ck'i t kng'y kj 'y g'Qpugv'Vgo r gtcwtgI'grv'xg'J wo kf k' 'F cv"

Nqi i gt'cwcej gf 0"

"

80 K'vj g'egp'tc'n'ck'j' cpf rgt'ku'off'f'wt'kpi 'k'pucm'v'kqp.'wtp'y g'u' ugo 'qp'v'q'twp'hqt'32"

o k'pwgu.'y gp'qhh'ci ckp0"

"

Qp'Vlo g<aaaaaaaaaaaaaaaaaaaaaa""Qh'Vlo g<aaaaaaaaaaaaaaaaaaaaaa"

"

Egp'tc'n'ck'j' cpf rgt'o qf g<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa""\*j g'v'kpi . 'eqq'kpi . 'h'cp'qpn' +"

"

" " " """"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa""\*go r gtcwtg'ugv'r q'kpv'+"

"

K'vj g'egp'tc'n'ck'j' cpf rgt'ku'on'f'wt'kpi 'k'pucm'v'kqp.'wtp'y g'u' ugo 'qhh'hqt'32'o k'pwgu.'y gp"

qp'ci ckp0"

"

Qh'Vlo g<aaaaaaaaaaaaaaaaaaaaaa""Qp'Vlo g<aaaaaaaaaaaaaaaaaaaaaa"

"

Egp'tc'n'ck'j' cpf rgt'o qf g<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa""\*j g'v'kpi . 'eqq'kpi . 'h'cp'qpn' +"

"

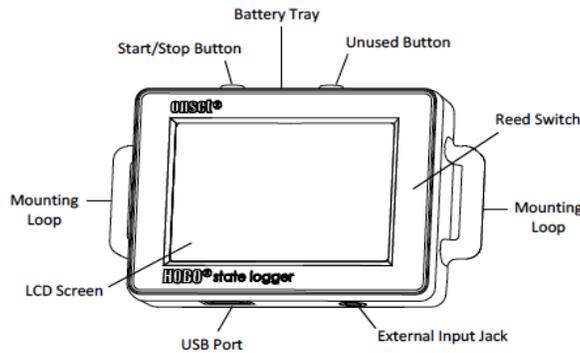
" " """" """"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaa""\*go r gtcwtg'ugv'r q'kpv'+"

## Door Using State Data Logging

```

"
30 J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej pkekcp<aaaaaaaa
"
40 Hqt'j qwug'y kj "cp'cwcej gf 'i ctci g.'hqcwv'yj g'f qqt'htqo 'yj g'i ctci g'kpqv'yj g'j' qwug0"
"
50 Vcmg'c'rj qvq'qh'yj g'i ctci g'f qqt<
    c0 Xlgy 'htqo 'i ctci g'v'j' qwug.'y kj 'f qqt'emugf 0'
    d0 Xlgy 'htqo 'j' qwug'v'j' ctci g.'y kj 'f qqt'qr gp0'
"
60 Rtguu'yj g'UctvUqqr 'dwwqp'ht'5'ugeqpf u'v'q'uctv'htqi i kpi 'f cvc0Ej gem'NQI I RPI 'f kur rc {"
    qp'uet ggp0'
    Qpugv'Ucv'g'F cvc'Nqi i gt'KF <aaaaaaaaaaaaaaaa "Uctv'Vlo g<aaaaaaaaaaaaaaaa
    .....*gd 0'UVCa233+"

```

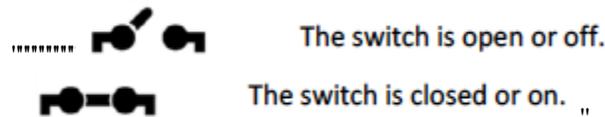


Hki wtg'39'Qpugv'ucv'g'f cvc'htqi i gt'

```

70 Vguv'v'ugg'kh'yj g'ucv'g'f cvc'htqi i gt'ku'qt'kpv'gf 'eqttgevn' 'v' 'tgeqtf 'qr gpkpi 'T'emukpi 'qh'yj g'
    f qqt0"

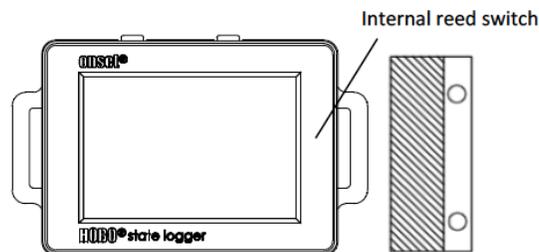
```



```

80 Wug'dmw'v'cr g'v'ugewt'g'f cvc'htqi i gt'cpf 'o ci pgv'v'f qqt0'

```



Hki wtg'3: 'Gzco r ng'qh'yj g'f cvc'htqi i gt'cwcej 'v' 'yj g'f qqt'

"  
 90 Vcng'c'rj qv'qh'yj g'ucv'f'c'v'hi i gt.'cu'uj qy p'cdxg0"

"  
 : 0 K gpvkh { 'cpf 'f guetkdg'cmr'cvk'f'qqt \*u+'v'q'wukf g0Cunluwf { 'r ct vkr cpv'v'f'guetkdg'yj g'  
 Htgs wpe { 'qh'wug'qh'gcej 'r cvk'f'qqt0Htqo 'yj ku'kphqto cvkq.'kf gpvkh { 'two'f'qqtu'yj cv'ctg'  
 wugf 'yj g'o quv'd { 'qeewr cpvu0"

Rcvk'f'qqt	Htqt	F guetkdg'Y j gtg'Rcvk'f'qqt'Gzku' Htqo 'cpf 'Vq, "	Htgs wpe { 'qh'Wug` "	F'c'v'Nqi i gt' Kpuvcmgf A'
%3"	"	"	"	[ "TP "
%4"	"	"	"	[ "TP "

, 'G0'0'Htqo 'rkxkpi 'tqgo 'v'dcen'ctf.'Htqo 'f'kpkpi 'tqgo 'v'ukf'g' {ctf.'o'cuvt'dgf tqgo 'dcreqp {0"  
 ` 'Cm quv'P gxt' 'hgy 'vko gu'c' { gct+.'tctgn' 'hgy 'vko gu'c'o qpvy +.'uqo g'vko gu' 'hgy 'vko gu'c'y ggm.'  
 qh'v'p' 'f'ckn { +.'xgt { 'qh'v'p' 'hgy 'vko gu'c'f'c { +0"

"  
 ; 0 Vcng'c'rj qv'qh'cmr'cvk'f'qqt \*u+'x'kgy kpi 'Htqo 'kpu'f'g'yj g'j' qvug'v'q'wukf g0"

"  
 320 Rtgu'v'yj g'Uctv'Uvqr 'dwwqp'ht'5'ugeqpf u'v'q'uctv'hi i kpi 'f'c'v'0Ej geni'NQI I KPI 'f'kur'rc { "  
 qp'uetggp0"

Rcvk'f'qqt'K'	Qpugv'Ucv'g'f'c'v'Nqi i gt'K'	Uctv'Vko g'
"	UVCa"	"
"	UVCa"	"

"  
 330 Vgu'v'q'ugg'kh'yj g'ucv'f'c'v'hi i gt'ku'qt'k'p'v'f'eqtt'gev'v'q't'geqtf 'qr'g'p'kpi 'I'em'uk'p' 'qh'yj g'  
 f'qqt0"

"  
 340 Wug'dm'g'v'cr g'v'ugewt'g'f'c'v'hi i gt'cpf 'o'ci'pg'v'q'f'qqt0"

"  
 350 Vcng'c'rj qv'qh'yj g'ucv'f'c'v'hi i gt0"



Hki wtg'3; 'Gzco r ng'qh'rj qv'qh'yj g'f'c'v'hi i gt'c'wcej 'v'yj g'f'qqt "

## Setup of Indoor Air Quality Monitoring Station

```
"
30 J qwug'KF <aaaaaaaa "F cyg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej pkekcp<aaaaaaaa
"
40 F kueuu'y kj 'uwwf { 'r ct vlek r cpv'vq'kf gpvkh{ 'c'uwkscdng'hqecvqpp'hqt'ugvklpi 'wr 'vj g'lpf qqt'ckt "
s wcrkv{ 'o qpkqtkpi 'ucvqpp0'

     Egpvtcn'3uv'hqqt'hqecvqpp'qh'vj g'j qwug'*g0 0'rkxkpi . 'f kpkpi . 'qt'f tgcvtqgo +0'
     Cv'hgcuv'32'h'cy c{ 'htqo "wpvxpvgf 'eqo dwvqpp'uqwtegu'*g0 0'eqqnkpi 'cr r rkcpegu+0'
     Cv'hgcuv'32'h'cy c{ 'htqo "gzvgtkqt'f qqt'vj cv'ku'htgs wgpvq{ 'wugf 0"
     P qv'kp'vj g'f kgevr'cy 'qh'uwr r n{ 'ckhny 'htqo 'hqtgqf'ckt'u{uvgo 0"
     P qv'gzr qugf 'vq'f kgevr'uprki j v0"
"
"
Nqecvqpp'qh'vj g'lpf qqt'o qpkqtkpi 'ucvqpp<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa "tqqo +"
"
50 K gpvkh{ 'cp'grgevtlecn'qwwrg0Rrwi 'kp'cp'gzvqpkqp'eqtf 0"

     Cff 'DO NOT UNPLUG'rcdgn'qp'vj g'qwwrgv'cu'c'tgo kpf gt0'
     Wug'r gf gultkcp'ecdng'eqxgt'tco r "T'twddgt'hqqt'eqtf 'eqpegcrgt'vq'r tgxgpv'tkr "
    j c| ctf 0'
"
"
60 Rwy'gki j v'qp'vj g'dqwqo 'etcvg'*3'qh'6+'vq'cf f 'uvcdkrkv{ 'vq'vj g'o qpkqtkpi 'ucvqpp0"
"
70 Cff 'vj g'vy q'o k f f ng'etcvgu'*4'cpf '5'qh'6+'cpf 'ugewtg'vj go 'd{ 'l kr 'vku0"
"
80 Uctv'EQ4'kputwo gpv'

    c0 Rtguv'cpf 'j qrf 'NQI I GT'hqt"@4'ugeqpf u'vq'dgi kp'mji i kpi 0'
    "
    d0 FCVCNQI I GT'y kn'cr r gct'kp'f kur rc{ 0'
    "
    EQ4'kputwo gpv'KF <aaaaaaaaaaaaaaaaaaaa "Uctv'Vlo g<aaaaaaaaaaaaaaaaaaaaaa
    "
    " " "*****g0 0EQ4a233+"
    "
    e0 Ugewtg'vq'vqr 'etcvg'*5'qh'6+'d{ 'l kr 'vku0'
    "
90 Uctv'PQ4'kputwo gpv'

    c0 Ugrgev'NQI I RPI 'UGVWR0"
    "
    d0 NQI 'HFGS 0?' '3'O R 0ENGCT'NQI '?' 'l gu0NQI I RPI '?' 'Qp0'
"
"
"
```

" P Q4'kputwo gpv'F <aaaaaaaaaaaaaaaa ""Uctv'Vlo g<aaaaaaaaaaaaaaaaaaaaa"  
" " " \*g0 0P Q4a223+ "  
"

" e0 Ugevtg'v'qr 'etcvg'\*5'qh'6+'d{'| kr 'kg0'  
"

: 0 Uctv'hqto crf gj {f g'kputwo gpv'

" c0 Ncdgn'vqf c{au'fcvg.'J qwug'F."cpf'hqto crf gj {f g'kputwo gpv'F "qp'yj g'ugpuqt"  
ectv'kf i g'dci 0"

" d0 kputv'ugpuqt'ectv'kf i g'kpv'yj g'kputwo gpv0"  
"



Hki wtg'42'Uj k{gk'hqto crf gj {f g'kputwo gpv'

" e0 Ugvo gcuvtgo gpv'f wcv'kp'?'52"o kpwgu0'  
"

" Hqto crf gj {f g'kputwo gpv'F <aaaaaaaaaaaaaaaa ""Uctv'Vlo g<aaaaaaaaaaaaaaaaaaaaa"  
" " " "" "" "" \*g0 0HTO a233+ "  
"

" f0 Ugevtg'v'qr 'etcvg'\*5'qh'6+'d{'| kr 'kg0'  
"

; 0 Cff'yj g'qr 'etcvg'\*6'qh'6+'cpf'ugewt'g'd{'| kr 'kg0"  
"

320 Uctv'kpf qqt'RO 'kputwo gpv'O gvQpg'DV/867+ "  
"

" c0 Ej gen'yj cv'ukf g/d{/ukf g'eqo r ctku'qp'y kj 'qwf qqt'RO 'kputwo gpv'j cu'dggp"  
eqo r rvgf 0"  
"

" d0 Rw'yj g'kpf qqt'RO 'kputwo gpv'kukf g'yj g'qr 'etcvg'cpf'r tqxkf g'r nwi /k'r qy gt0"  
"

" e0 Uctv'yj g'kpf qqt'RO 'kputwo gpv'd{'r tgu'kpi 'yj g'UCO RNG'ng{0'  
"



## Setup of Indoor Air Quality Monitoring Station in Master Bedroom

```
"
30 J qwug"KF <aaaaaaaa "F cyg<aaaaaaaa "Vko g<aaaaaaaa "Vgej pkekcp<aaaaaaaa"
"
40 F kwuu'y kj 'uwf { 'r ct vkr cpv'v'kf gpvh{ 'c'uwkcdrg'hqecvqp'hqt'ugvki 'wr 'vj g'kpf qqt'ck"
   swrv{ 'o qpkqtkpi 'ucvqp0'
"
    C'v'gcu'7'h'cy c{ 'h'qo 'gzvgtkqt'f qqt'vj cv'ku'h'gs vgpv{ 'wugf 0'
    P qv'kp'vj g'f'k'gev'r cyj 'qh'uwr r n{ 'ck'hny 'h'qo 'h'qtegf 'ck'u{u'vgo 0'
    P qv'g'zr qugf 'v'f'k'gev'u'wprki j v0'
"
50 K gpvh{ 'cp'grgevtlecn'qwwg0Rnwi 'kp'cp'gz'v'g'p'k'p'eqtf 0'
"
    C'f'f' DO NOT UNPLUG 'h'dgn'qp'vj g'qwwg'v'cu'c't'go kpf gt0'
    W'ug'r'gf'g'ut'k'p'ec'drg'eqxgt't'co r "t'wddgt'h'qqt'eqtf'eqpegrgt'v'q'r't'gx'gpv't'k' "
      j c|ctf 0'
"
60 U'gwr 'c't'kr qf 'uwkcdrg'hqt'j qrf kpi 'kputwo g'p'u'v'q'uco r ng'c'v'c'r r tqzko cvgn{ '6/h'j' gki j v0'
"
70 U'ctv'E'Q4'k'putwo g'p'v'
"
   c0 R't'guu'c'p'f'j' qrf 'NQI I GT'hqt'@'l'ugeqpf u'v'q'dgi k'p'h'qi i kpi 0'
"
   d0 F'CV'CN'QI I GT'y k'm'c'r r gct'k'p'f'k'ur r{ 0'
"
   EQ4'k'putwo g'p'v'KF <aaaaaaaaaaaaaaaa "U'ctv'V'ko g<aaaaaaaaaaaaaaaaaaaaa"
"   "   "   "*****g0 0EQ4a233+"
"
80 U'ctv'h'qto c'rf'gj {f'g'k'putwo g'p'v'
"
   c0 N'ed'gn'v'q'f'c{ 'u'f'c'v'g.'J' qwug'KF .c'p'f'h'qto c'rf'gj {f'g'k'putwo g'p'v'KF "q'p'v'j'g'u'g'p'u'q't"
      e'c't'v'k'f' i g'd'c'i 0'
"
   d0 K'p'ug't'v'ug'p'u'q't'e'c't'v'k'f' i g'k'p'v'q'v'j'g'k'putwo g'p'v'0'
"
```





Nqecv'kq"5'EQ4'kputwo gpv'k <aaaaaaaaaaaaaaaa"Uctv'Vko g<aaaaaaaaaaaaaaaa"

80 Vcng'r'j qvqu'qh'y g'EQ4'kputwo gpv'uj qy kpi 'emqug/wr 'cpf 'ku'lwttqwpf kpi 0"

"  
"

**Start of Passive Sampling**

"  
 30 J qwug'K <aaaaaaaa "F cyg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej pkek<aaaaaaaa "

"  
 40 Qwf qqt "

"  
 c0 Rww'qp'pktkg'i mxxgu'dghqtg'j cpf rkp i 'r cuukxg'uco r rgu'"

"  
 d0 Vcng'qw'Qi cy c'hgrf "drcpm"cpf "r mæg'qp"vqr "qh'yj g' | kr "dci 0"

"  
 Hgrf "Drcpm"K <aaaaaaaaaaaaaaaaaaaaaaaa "Uctv'Vlo g"<aaaaaaaaaaaaaaaa "

"  
 e0 Kpugt'vj g'qwf qqt "QWV+"Qi cy c" P Qz IP Q4"uco r rgt "cuugo dn { 'kp'v'c'uw r qt v' enr . 'yj gp"cwcej 'yj g'uw r qt v'erkr "v'j g'uco r rkp i 'ecr 0"



Hki wtg'45'Qi cy c' P Qz IP Q4'uco r rgt 'cpf 'yj g'uco r rkp i 'ecr "

"  
 f0 Vcng'vj g'qwf qqt "QWV+"WO Gz 'hqt o crf gj { f g'r cuukxg'uco r rgt 'qw'qh'yj g'dci 0' **Slide green cover down** v'j g'uco r rkp i 'r qukkqp "g'zr qug'F P RJ /vtgcvgf "cr g'v'q" f khwukqp+"cpf "dgi kp'uco r rkp i 0'



Hki wtg'46'WO Gz 'hqt o crf gj { f g'r cuukxg'uco r rgt "

g0 Cwcej 'yj g'WO Gz'hqto crf gj {f g'r cuukxg'uco r rgt'vq'yj g'uco r rkp' 'ecr 0"

Uctv'Vko g<"	
Qi cy c'P Qz IP Q4'Uco r rg'RF "	"
WO Gz'Hqto crf gj {f g'Uco r rg'RF "	"

"

h0 Ugewtg'yj g'uco r rkp' 'ecr 'vq'yj g'qwf qqt'vkr qf "cv'cr r tqzko cvgn{ '7/hv'j gki j v0

"

i0 Rvw'yj g'Qi cy c'hgrf "drcpml'ccentl'p'vq' ] kr "dci 0"

"

Hgrf 'Drcpml'Gpf 'Vko g<"aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

"

j0 Vcng'c'rj qvq'qh'yj g'r cuukxg'uco r rgtu'\*enqug/wr ."cpf "cnuq'htqo 'hwtv'j gt'dcem' uj qy kpi 'yj g'uco r rkp' 'ecr 'ugewtgf "qp'vkr qf +0"

"

k0 Mgr 'cm' kr "dci u'lp'c'htgg' gt'dci 'rdgrgf "öOutdoor Passive Samplerö"

l0 Hkr'q'w'yj g'J qwug'RF ."Uco r rg'RF ."F cvg.'Uctv'Vko g.'Uco r rg'Nqecv'kp'lp'yj g'ur ceg' r tqxkf gf "qp'c'htgg' gt'dci "qh'yj g'uco r rgt'"

"

50 kpf qqt'O qpkqt'kpi "Ucv'kq"

"

c0 Rvw'qp'p'kt'kg'i r'xgu'dghqt'g'j cpf rkp' 'r cuukxg'uco r rgtu'"

"

d0 k'p'gt'v'yj g'k'pf qqt'\*R 3'cpf "R 4'\*f wr r'ecvq++'Qi cy c'P Qz IP Q4'uco r rgt'cuugo dr'ku' k'p'vq'c'ur r qt'v'er'k' . 'yj gp'cwcej 'yj g'ur r qt'v'er'k' 'vq'c'uco r rkp' 'ucpf 0'

"

e0 Vcng'yj g'k'pf qqt'\*R 3'cpf "R 4'\*f wr r'ecvq++'WO Gz'hqto crf gj {f g'r cuukxg'uco r rgtu' qw'qh'yj g'dci 0Slide green cover down'vq'uco r rkp' 'r qu'k'kp'\*g'zr qug'F P R J / v'gevgf "v'cr g'vq'f h'hw'k'qp++'cpf "dgi k'p'uco r rkp' 0Cwcej 'yj g'r cuukxg'uco r rgtu'vq'c' uco r rkp' 'ucpf 0'

"

Uctv'Vko g<"	
Qi cy c'P Qz IP Q4'Uco r rg'RF "	"
Qi cy c'P Qz IP Q4'Uco r rg'RF '*f wr r'ecvq++"	"
WO Gz'Hqto crf gj {f g'Uco r rg'RF "	"
WO Gz'Hqto crf gj {f g'Uco r rg'RF '*f wr r'ecvq++"	"

"

f0 Ugewtg'yj g'v'y q'uco r rkp' 'ucpf u'vq'yj g'vqr 'etcvg0

"

g0 Vcng'c'r j qvq'qh'yj g'r cuukxg'uco r rgtu'\*emqug/wr .'cpf 'htqo 'hwt yj gt'dcentluj qy kpi "

"

h0 Mgr 'cm| kr 'dci u'kp'c'htgg| gt'dci 'hcdgrgf "öIndoor Passive Samplerö"

i0 Hkn'qww'yj g'J qwug'RF .'Uco r rg'RF .'F cvg.'Uctv'Vko g.'Uco r rg'Nqecvqp'kp'yj g'ur ceg" r tqxkf gf "qp'c'htgg| gt'dci "qh'yj g'uco r rgt"

"

60 O cvgt'Dgf tqqo ""

"

c0 Rww'qp'pklkg'i nqngu'dghqtg'j cpf rki "r cuukxg'uco r rgtu"

"

d0 Vcng'yj g'o cvgt'dgf tqqo "O DT+'WO Gz'hqto crf gj { f g'r cuukxg'uco r rgt'qww'qh' yj g'dci 0Slide green cover down"v'uco r rki "r quksqp"\*gzzr qug'F P R J /xgcvgf " vr g'v'f khwukqp+'cpf "dgi kp'uco r rki 0C wcej "yj g'r cuukxg'uco r rgt"v'c'uco r rki " ucpf 0'

"

Uctv'Vko g<	
WO Gz'Hqto crf gj { f g'Uco r rg'RF "	"

"

e0 Ugewt'vj g'uco r rki "ucpf "v'yj g'vkr qf "cv'cr r tqzko cvgn{ '7/hv'j gki j v0"

"

f0 Vcng'c'r j qvq'qh'yj g'r cuukxg'uco r rgtu'\*emqug/wr .'cpf 'htqo 'hwt yj gt'dcentluj qy kpi "yj g" uco r rki "ucpf "ugewtgf "qp'vkr qf +0'

"

g0 Mgr 'cm| kr 'dci u'kp'c'htgg| gt'dci 'hcdgrgf "öMaster Bedroom Passive Samplerö"

h0 Hkn'qww'yj g'J qwug'RF .'Uco r rg'RF .'F cvg.'Uctv'Vko g.'Uco r rg'Nqecvqp'kp'yj g'ur ceg" r tqxkf gf "qp'c'htgg| gt'dci "qh'yj g'uco r rgt"

"

"

**G. Telephone script to answer questions during one-week sampling period**

"

"

J gmq#O { "pco g'ku'aaaaaaaaa0Kco 'ecnkpi 'htqo 'vj g'I cu'Vgej pqm { "Kpukwng\*H VK'cdqw'vj g"  
 J gcnj { "GhlekpvP gy 'Ecnkhtpk'J qo gu'Uwf { 'vj cv'y g'ctg'f qkpi 'kp' { qwt'j qo g0"  
 "

Rrgcug'o c { "Kur gcnly kj "]uwf { 'r ctvlek cpv\_A'  
 "

J gmq"]uwf { 'r ctvlek cpv\_ 'Kco 'ecnkpi 'v'ugg'kl' { qw'j cxg'cp { 's wgu'kpu'qt'eqpegtpu'cdqw'qwt"  
 o qpkqt kpi 'f gxlegu'uq'htA"  
 " *Answer any questions.*"  
 "

Rrgcug'dg'tgo kpf gf 'vj cv'k'ku'ko r qtvcpv'vj cv' { qw'p'qv'wpr nwi 'vj gug'f gxlegu'gzegr v'kp'go gti gpe { 0'Vq"  
 { qwt'hpqy rfi g.'j cu'vj gtg'dggp'c'r qy gt'kpvgtt wr v'kpp'ukpeg'qwt'rcuv'xkukA"  
 "

" aaaaaa"] gu aaaaaa'P q "  
 "

" K] gu.'f guetkdg<aa"  
 "

" .....aa"  
 "

" .....aa"  
 "

"

Y g'cnuq'y cpv'v'q'tgo kpf " { qw'vj cv'k'ku'ko r qtvcpv'v'q'nggr " { qwt'y kpf qy u'enqugf 'f wt kpi 'vj ku'qpg/  
 y ggm'uco r r kpi 'r gtlkf 0F qkpi 'uq'y kmj gn 'wu'dgwgt'ej ctcevtk g'vj g'r gthqto cpeg'qh' { qwt"  
 o gej cplecn'xgpv'k'v'k'p'u' u'go 0"  
 "

Rrgcug'tgo go dgt 'v' hkm'qw' { qwt'f ckn' 'nqi 'v' kpf kcv'g'vj g'pwo dgt 'qh'r gqr ng'kp' { qwt'j qo g'cpf 'v'q"  
 pqvg'cev'kk'kgu'vj cv'o c { 'i gpgtcvg'kpf qqt 'ck'r qmwcpsu0"  
 "

Qwt' hgrf 'v'gco 'y knltgwtp'qp'aaaaaaaaaaaaaa "f cvg'cpf 'v'ko g+'v'eqmgev'cm'bo qpkqt kpi 'f gxlegu0"  
 "

Rrgcug'wtp'kp'vj g'f ckn' 'nqi . 'vqi gvj gt'y kj 'vj g'37/o kpwg'uwtxg' { cdqw' { qwt'j qo g.'j qwugj qrf "  
 cev'kk'kgu.'cpf 'f go qi tcr j keu.'v'q'vj g'hgrf 'v'gco 'kp'vj g'gpxgmqr g'r tqxkf gf 0"  
 "

Vj cpml' { qw'ht 'cnkpi 'r ctv'kp'vj ku'ko r qtvcpv'tgugctej 'r tqlgex0I qqf d { g0"  
 "

"

## H. Gathering of Equipment

### End of Passive Sampling

"

30 J qwug'F <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekp<aaaaaaaa "

"

40 Qwf qqt"

"

c0 Rwf'qp'pklkg'i npxgu'dghqtg'j cpf rkp i "r cuukxg'uco r rgu"

"

d0 Vcng'qw"Qi cy c'hgrf "drcpm'cpf "r neg'qp"vqr "qh'y g" kr "dci 0"

"

" Hgrf "Drcpm'F <aaaaaaaaaaaaaaaaaaaaaaaa "Uctv"Vlo g"<aaaaaaaaaaaaaaaa "

"

e0 Tgo qxg'yj g'qwf qqt"QW+"Qi cy c"P Qz IP Q4"uco r rgt'cuugo dnf "Htqo "yj g" uwr r qtvkpi "erkr "cpf "uco r rkp i "ecr 0Uqtg'yj g'uco r rgt'yj g'kpq'ku" kr "dci 0"

"

f0 Tgo qxg'yj g'qwf qqt"QW+"WO Gz'Hqto crf gj {f g'r cuukxg'uco r rgt'Htqo "yj g" uco r rkp i "ecr 0Slide green cover up to stop sampling. "yj gp"uvqtg'yj g'uco r rgt' kpq'ku" kr "dci 0"



Hk wrg'47"WO Gz'Hqto crf gj {f g'r cuukxg'uco r rgt'cv'uvqr "uco r rkp i "r quklqp"

"

Gpf "Vlo g<"	
Qi cy c"P Qz IP Q4"Uco r rgt'F "	"
WO Gz'Hqto crf gj {f g'Uco r rgt'F "	"

"

F guetkdg'kh'qdugtxgf "r tqdrgo u'y kj "r cuukxg'uco r rgtu<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa "

"

aa "

\*gd 0'o ku kpi . 'fco ci gf . "qt"WO Gz'uco r rgt'eqxgt'kp'emugf "r quklqp+ "

"

g0 Rww'vj g'Qi cy c'hgrf "dncpmdcemlkpvq" kr "dci 0"

"

" Hgrf "DncpmlGpf "Vlo g<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

"

h0 Mgr "cm'uco r rgtu'kp'c'htggj gt'dci 'rdgrgf "ö**Outdoor Passive Sampler**ö"

""

i 0 Uqgt'vj g'uco r rkp "ecr . 'uwr r qtv'erkr . 'gve0kp'vj g'o kae0uwr r rkgu'dci 0"

"

50 kpf qqt'O qpkqtkpi "Ucvkqp"

"

c0 Rww'qp'pktkrg'i nrxgu'dghqtg'j cpf rkp "r cuukxg'uco r rgu"

"

d0 Tgo qxg'vj g'kpf qqt"\*R 3"cpf "R 4"\*f wr rkecvg++"Qi cy c'P Qz IP Q4'uco r rgt"  
cuugo drkgu'htqo 'vj g'uwr r qt'kpi 'erkr 'cpf 'uco r rkp 'uvcpf 0Uqgt'vj g'uco r rgtu'vj g'  
kpq' kr "dci u0"

"

e0 Tgo qxg'vj g'kpf qqt"\*R 3"cpf "R 4"\*f wr rkecvg++"WO Gz 'hqtto crf gj {f g'r cuukxg"  
uco r rgtu'htqo 'vj g'uco r rkp 'uvcpf 0Slide green cover up to stop sampling. 'vj gp"  
uqgt'vj g'uco r rgtu'kpq' kr "dci u0"

"

Gpf "Vlo g<	
Qi cy c'P Qz IP Q4'Uco r rgt"R "	"
Qi cy c'P Qz IP Q4'Uco r rgt"R "*f wr rkecvg++"	"
WO Gz 'Hqtto crf gj {f g'Uco r rgt"R "	"
WO Gz 'Hqtto crf gj {f g'Uco r rgt"R "*f wr rkecvg++"	"

"

F guetkdg'kh'qdugt'xgf 'r tqdrgo u'y kj 'r cuukxg'uco r rgtu<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa"

"

aa"

\*g0 0'o kulkpi . 'fco ci gf . 'qt "WO Gz 'uco r rgt'eqxgt'kp'emugf 'r qukkqp+"

"

f0 Mgr "cm'uco r rgtu'kp'c'htggj gt'dci 'rdgrgf "ö**Indoor Passive Sampler**ö"

""

g0 Uqgt'vj g'uco r rkp "ecr . 'uwr r qtv'erkr . 'gve0kp'vj g'o kae0uwr r rkgu'dci 0"

"

60 O cvgt'Dgf tqgo "

"

c0 Rww'qp'pktkrg'i nrxgu'dghqtg'j cpf rkp "r cuukxg'uco r rgu"

"

d0 Tgo qxg'yj g'o cuvgt'dgftqqo "O DT+"WO Gz'hqto crf gj { f g'r cuukxg'uco r rgt'htqo "
yj g'uco r rki "ecr 0Slide green cover up"vq'uvqr "uco r rki . 'yj gp'uvqtg'yj g'uco r rgt"
kpvq' k 'dci 0"

"

Gpf "Vlo g<"	
WO Gz'Hqto crf gj { f g'Uco r rgt'K "	"

"

F guetkdg'kh'qdugt xgf 'r tqdngo u'y kj 'r cuukxg'uco r rgt<aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa

"

aa

\*gd 0"o kuukpi . 'f co ci gf . "qt "WO Gz'uco r rgt'eqxgt'lp"erqugf 'r qukkqp+"

"

e0 Mgr "cm'uco r rgtu'lp"e'htgg| gt "dci "rdgrgf "oMaster Bedroom Passive Samplerö"

""

f0 Uqtg'yj g'uco r rki "ecr . 'uwr r qtv'erkr . "gve0lp'yj g'o kae0uwr r rku'dci 0"

"

## Collection of Indoor Air Quality Instruments

"

30 J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej pkekcp<aaaaaaaa "

"

40 Cv'gcej 'hcecvkqp.'vcng'c'rj qv'qh'yj g'kputwo gpv'u+dglpi 'eqmgvfg 0"

"

50 Vcng'pqv'qh'yj g'hmqy kpi <"

c0 Rqy gt'wpr nwi i gf "

d0 kputwo gpv'wtpgf "qih"

e0 kputwo gpv'o qxgf 'htqo "qtki kpcnhcecvkqp"

"

60 Ej genlyj cv'gzvpuqp'eqtfu.'vcr g.'gve0j cxg'dggp'tgo qxgf 0"

"

"	Location"	Instrument* ID"	End Time"	Notes"
*k+	Qwf qqt "	RO Qa "	"	"
		VTQa "	"	"
*k+	kpf qqt "Uc vkqp"	RO Ka "	"	"
		EQ4a "	"	"
		P Q4a "	"	"
		HFO a "	"	"
*kk+	O cvugt "	EQ4a "	"	"
	Dgf tqgo "	HFO a "	"	"
*k+	"	EQ4a "	"	"
*x+	"	EQ4a "	"	"
*xk+	"	EQ4a "	"	"

### \* Instrument List"

EQ4"? "EQ4"o qpkqt \*Gzvej "UF : 22"EQ4I"J wo kf kv{ l"Vgo r gtcwtg"Fcvmji i gt+"

HFO "? "Hqto cif gj { f g"o qpkqt \*Uj kp { gk"HO O /O F "Hqto cif gj { f g"Ugpuqt+"

P Q4"? "P Q4"o qpkqt \*Cgtqs wcn"Ugtkgu"722"O qpkqt "y l" P Q4"Ugpuqt"J gcf +"

RO K"? "kpf qqt"RO "kputwo gpv\*"O gvQpg"DV/867+"

RO Q"? "Qwf qqt"RO "kputwo gpv\*"O gvQpg"GU/864+"

VTQ"? "Qwf qqt"vgo r gtcwtgIIJ "Qpugv"Gzvtgpcn"Vgo r gtcwtgI" Tgrvkg"J wo kf kv{ "F cvmji i gt+"

"

## Collection of Activity Sensors

```

"
30 J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekp<aaaaaaaa "
"
40 C v'gej 'hcevkqp.'vcng'c'rj qv'qh'yj g'ugpuqt *u+'dglpi 'eqmgev f 0"
"
50 Vcng'pqv'qh'yj g'hqmjy lpi <
    c0 Ugpuqt'o kulpi 'qt'fco ci gf "
    d0 Ugpuqt'o qxgf 'hgo 'qtki kpcr'hcevkqp"
"
60 Ej genly cv'cr g.'l kr 'vku.'gve0j cxg'dggp'tgo qxgf 0'
"

```

"	Location"	Sensor* ID"	End Time"	Notes"
*c+ "	Eqqmqr " *NghvDcem"	KDwa "	"	"
	*NghvHqpvt"	KDwa "	"	"
	*Tki j vDcem"	KDwa "	"	"
	*Tki j vHqpvt"	KDwa "	"	"
	Qxgp"	KDwa "	"	"
	Tcpi g'J qqf ""	CP O a "	"	"
*d+ "	Htgr rceg""	KDwa "	"	"
*e+ "	Emyj gu'F t {gt"	CP O a "TRNF a "	"	"
	Newpft { "Tqqo " Gzj cwuv'Hcp"	O VTa "TRNF a ""	"	"
*f+ "	O cvgt'Dcyj "/" Uj qy gt"	O VTa "TRNF a "	"	"
	Vgo r gtcwtgl" TJ "	VTQa "	"	"

	O cugt'Dcyj "/Vqkrgv"	O VTa"TRNF a"	"	"
*g+"	Qyj gt'Dcyj "3"	O VTa"TRNF a"	"	"
	Vgo r gtcwtgI" TJ "	VTQa"	"	"
*h+"	Qyj gt'Dcyj "4"	O VTa"TRNF a"	"	"
	Vgo r gtcwtgI" TJ "	VTQa"	"	"
*i +"	Qyj gt'Dcyj "5"	O VTa"TRNF a"	"	"
	Vgo r gtcwtgI" TJ "	VTQa"	"	"
*j +"	Uwr r nI "Ck" I tkng"3"	VTJ a"	"	"
	Uwr r nI "Ck" I tkng"4"	VTJ a"	"	"
*k+"	Uwr r nI "Ck" kpcng"	CPO a"TO VTa"	"	"
*l+"	I tci g/vq/" J qwug" F qqt"	UVCa"	"	"
	Rcvkq/vq/" Qwukf g" F qqt"3"	UVCa"	"	"
	Rcvkq/vq/" Qwukf g" F qqt"3"	UVCa"	"	"

**\* Sensors List**

CPO "? F ki kUgpug" Cpgo qo ggt"

ØW? "kDwwqp" Vgo r gtcwtg" Nqi i gt"

O VT"? "Qpugv" O qvqt" QpIQh" F cve" Nqi i gt"

RNF "? "Qpugv" Rmi " Nqcf " F cve" Nqi i gt"

UVC"? "Qpugv" Ucvg" F cve" Nqi i gt"

VTJ "? "Qpugv" Vgo r gtcwtgI" Tgrvkg" J wo kf kv{ " F cve" Nqi i gt"

VTQ"? "Qpugv" Gperqugf " Vgo r gtcwtgI" Tgrvkg" J wo kf kv{ " F cve" Nqi i gt"

## I. Check Lists

### List of Photos to Take

"

#### 1. House exterior

"

- Gzvtkqt "qh'vj g'j qwug'ltqo 'ltqpV'
- Gzvtkqt "qh'vj g'j qwug'ltqo 'dcem'
- Dcenfctf "uj qy "qwf qqt 'hktgr neg. 'DDS . 'i tknlkhr' t gugpv+''
- Erqvj gu'ft { gt 'xgpv'uj qy 'kh'gzj cwuv'xgpv'ku'dmqengf "qt 'pqv+''
- Uwr r n' 'ckt' kpcng'uj qy 'kh'kpcng'ku'dmqengf "qt 'pqv+''
- Gzj cwuv'hcp "qwrwv''

"

#### 2. Whole-house ventilation system

"

- I gpgtcr'uwttqwpf kpi 'y j gtg'vj g'u{ uvgO 'ku'rqecvgf "gO 0"gzj cwuv'hcp'kp'rcwpft { "tqqo . 'kp/rkp'g'uwr r n' 'hcp'kp'cwk+''
- Erqugw "qh'vj g'u{ uvgO "gO 0"uj qy "o cnglo qf gn'qh'vj g'hcp+''
- Erqugw "qh'vj g'u{ uvgO "eqpvtqngt "gO 0"y cm'uy kej . 'ur ggf "ugwkp . 'vko gt. 'gveO''

"

#### 3. Master and other bathroom(s)

"

- Nqecvqp "qh'vj g'gzj cwuv'hcp'kp'tgrvqp "v'vj g'tqqo "
- Hcp' i tknl'
- Y cm'uy kej "qt "qvj gt "eqpvtqngt ""
- O cnglo qf gn'qh'gzj cwuv'hcp ""
- TJ "T'vko gt "ugwkp i "qh'gzj cwuv'hcp'kh'ceegukdrg"
- Tgr gcv'kh'vkgv'ku'rqecvgf "kp" c'ugr ctcvg'tqqo "

"

#### 4. Laundry room

"

- Erqvj gu'ft { gt "o cnglo qf gn+''
- Nqecvqp "qh'vj g'gzj cwuv'hcp'kp'tgrvqp "v'vj g'tqqo "
- Hcp' i tknl'
- Y cm'uy kej "qt "qvj gt "eqpvtqngt ""
- O cnglo qf gn'qh'gzj cwuv'hcp ""
- TJ "T'vko gt "ugwkp i "qh'gzj cwuv'hcp'kh'cr r rkecdrg ""

"

#### 5. Kitchen

"

- Rj qv'uj qy kpi "dqj 'tcpi g'j qqf "qt'o ketqy cxg/eqo dq+cpf "eqqmqr "
- Tcpi g'j qqf "ltqpvxkgy "kpenf kpi "eqqmqr "
- Tcpi g'j qqf "ukf g/xkgy "uj qy kpi "gzvgpukqp "qxt "eqqmqr "

- Tcpi g'j qqf 'o cng'lo qf gn'cpf 'h'cp'ur ggf 'eqpvtqnl'ugw'kpi u'"
- K'pukf g'qh'tcpi g'j qqf 'uj qy kpi 'i tgcug'uetggp'cpf 'h'kngt'rqec'v'kqp'"
- Xgpv'kpi 'f'wev'\*qr gp'ecd'k'p'gv'f'qqt 'h'j'k'f'f'gp+'
- Eqqm'qr '\*o cng'lo qf gn'pwo dgt'qh'dwt'p'gtu.'eqpvtqnl'ugw'kpi 'hpqdu+'"
- Qxgp'\*o cng'lo qf gn'eqpvtqnl'ugw'kpi 'hpqdu+'"

**6. Central forced air system**

- Vj gto qucv'\*uj qy 'vgo r gtcwt'g'ugv'q'k'p'w'w'"
- H'wtp'ceg'\*uj qy 'o cng'lo qf gn'"
- Uwr r n'f'cpf't'g'wtp'o c'p'k'q'f'u'q'h'c'k'j'c'p'f'rgt'"
- Ck 'h'kngt'cu'k'p'uc'ng'f'k'p'ecd'k'p'gv'\*uj qy 'c'p'f'i'c'r'u+'"
- Ck 'h'kngt'o cng'lo qf gn'eqp'f'k'k'q'p'\*p'gy A'w'ug'f'A'f'k'v'f'A'.'y t'k'w'gp't'ge'q't'f'q'h'y'g'h'c'u'v'ej'c'p'i'g'f'c'v'g+'"
- CE'\*uj qy 'o cng'lo qf gn'"

**7. Attic**

- C'w'le'x'gp'v'k'v'k'p'\*i'c'd'rg'x'gp'v.'t'k'f'i'g'x'gp'v.'g'v'e'0'"
- C'w'le'k'p'u'w'v'k'p'"
- F'w'ey'q't'm'e'q'p'p'g'e'v'k'p'i'g'z'j'c'w'v'h'c'p.'u'w'r'n'f'h'c'p.'t'c'p'i'g'j'q'q'f'.'e'g'p't'c'n'l'h'q't'eg'f'c'k' "u'f'u'v'g'o "

**8. Garage**

- I'g'p'g't'c'n'l'x'k'gy'q'h'i'c't'c'i'g'"
- I'c't'c'i'g'v'q'j'q'w'ug'c'e'eg'u'u'f'q'q't'"
- I'c't'c'i'g'g'z'j'c'w'v'h'c'p'k'h'r't'g'ug'p'v'"

**9. Other appliances**

- Y'c'v'g't'j'g'c'v'g't'"
- H'k't'g'r'r'e'g'"
- Q'y'g't'j'g'c'v'k'p'i'g's'w'k'r'o'g'p'v'"
- Q'y'g't'eq'q'r'k'p'i'g's'w'k'r'o'g'p'v'"
- U'c'p'f'c'm'p'g'c'k't'eng'c'p'g't'u'"
- J'w'o'k'f'k'h'g't'"
- F'g'j'w'o'k'f'k'h'g't'"
- R'w'i'/k'p'q't'u'v'e'm'c'k't'h't'g'uj'g'p'g't'u'"
- DDS.'q'w'f'q'q't'i't'k'n'uo'q'ng't.'h'k't'g'r'k'v.'g'v'e'0'"

**10. User manuals**



Rj qvq'uj qy kpi 'kDwwqpu'r mæg'f "qp'eqqmqr "lwthceg"

**16. Fireplace use monitoring**

Rj qvq'uj qy kpi 'kDwwqp"cwcej gf "qp'htgr mæg"

**17. Range hood use monitoring**

Rj qvq'uj qy kpi 'F ki kUgpug"cpgo qo gvg't"qt"qvj gt 'f gxleg"\*gñ 0"o qvqt "qp'lqhh'f cvc" mqi i gt+"cwcej gf "qp'tcpi g'j qqf "vq"o qpkqt "wug"

**18. Clothes dryer use monitoring**

Rj qvq'uj qy kpi 'r mxi /mqcf "f cvc"mqi i gt"qt"qvj gt 'f gxleg"\*gñ 0"o 'F ki kUgpug" cpgo qo gvg't"qp'gzj cwuv'xgpv+"wugf "vq"o qpkqt "emqj gu'f t { gt 'wug"

**19. Exhaust fan use monitoring**

Rj qvq'uj qy kpi 'F ki kUgpug"cpgo qo gvg't"qt"qvj gt 'f gxleg"\*gñ 0"o qvqt "qp'lqhh'f cvc" mqi i gt+"wugf "vq"o qpkqt "gzj cwuv'hcp" wug"  
 TJ "T'ko gt "ugw'kpi "qh'gzj cwuv'hcp'kh'ceegukdrg"

**20. Supply air use monitoring**

Rj qvq'uj qy kpi "o qvqt "qp'lqhh'f cvc"mqi i gt"qt"qvj gt 'f gxleg"\*gñ 0"o 'F ki kUgpug" cpgo qo gvg't+"wugf "vq"o qpkqt "uwr r n{ "ckt'kpxcng'ckl'mqy ""

**21. Central forced air system use monitoring**

Rj qvq'uj qy kpi "uwr r n{ "ckt'f t'lng'y kj "vj g'Qpugv'vgo r gtcwtg'l'tgrc'xkg'j wo kf k{ " f cvc"mqi i gt"cwcej gf ""

**22. Door use monitoring**

Rj qvq'qh'yj g'f qqtu'dgkpi "o qpkqt gf "  
 Emqugw "rj qvq'qh'yj g'wcv'g'f cvc"mqi i gt"cwcej gf "qp'yj g'f qqt"

**23. Collection of IAQ instruments and activity sensors**

Cv'gcej "mqc'v'q'p."cng"o'rj qvq'qh'yj g'ICS "kputwo gpw'cpf lqt "ce'v'x'k'v{ "ugpuqtu" dgkpi "eqmgev'gf ""

**24. Inline supply fan airflow testing**

- Ugr dcent'uj qy 'yj g'f weveqppgevkpi 'v'j g'lp/rlpg'hcp.'lprgv'vgt o kpen'cpf "
- eqppgevkp'v'j g'egpvcilhqtegf "ckt'u{ ugo "
- Erqugr 'rj qv'qh'j g'ckt'xgrqekv{ 'r tqdg'kpuwcvkqp'rqevkqp"

**25. Range hood airflow testing**

- Rj qv'j cv'uj qy u'j g'ecr wtg'j qvf "cpf 'F wevDrcuvgt 'vguv'ugwr "
- Rj qv'qh'j g'hcp'ur ggf 'ugvkpi u'f wtkpi 'tapi g'j qvf "cklmqy 'vgvkpi "

**26. Clothes dryer airflow testing**

- Rj qv'j cv'uj qy u'j g'ecr wtg'j qvf "cpf 'F wevDrcuvgt 'vguv'ugwr "
- Rj qv'qh'j g'f t{ kpi 'ugvkpi 'ugrgevgt 'f wtkpi "cklmqy 'vgvkpi "

**List of Things to mark on Floor Plan**

- "
- P qv'cp{ 'f khtgpeg'dgwy ggp'cewenir{ qw'cpf 'hqq' r' rcp"
- Egk'kpi 'j gki j w'lp'i tgcvtqgo . 'mkej gp. 'hxlpi 'tqgo . 'f'lpki 'tqgo . 'dgf tqgo u'cpf 'qyj gt" r ctw'qh'yj g'j qwug'y kj 'f khtgpgv'egk'kpi 'j gki j w"
- F qqtu'v'q'wukf g'\*gfi 0'o clp'f qqt. 'r cvkq'f qqt. 'f qqt'v'q'i ctcig +"
- Gzj cwv'hcpu'lp'dcyj tqgo u. 'r wpf t{ 'tqgo . 'i ctcig. 'gve0"
- Uwr r n{ 'ckt 'lprgv'khr' tgugpv"
- Tgwtp'ckt' i tkng'qh'egpvcn'hqtegf 'ckt'u{ ugo "
- Uwr r n{ 'ckt' i tkng'qh'egpvcn'hqtegf 'ckt'u{ ugo ""
- Ck 'hngt'qh'yj g'hqtegf 'ckt'u{ ugo ""
- Vj gto qucvu'\*rcdgrly kj 'ikpm'v'q'u{ ugo 'dglpi 'eqpvtqmgf 'khi' qpgr +"
- Eqqmqr '\*kpf lecvg'dwtpgtu+'cpf 'qxgp"
- Kpf qqt 'hktgr rceg""
- Emqj gu'f t { gt'cpf 'gzj cwv'xgpv'
- Y cvgt'j gcvgt'cpf 'hwg"
- Qyj gt'j gcvlpi leqqrkpi 'gs wkr o gpv. 'f glj wo kf khtg. 'ucpfc mppg'ckt'engcpgtu. 'r nwi /lp luken'ckt" It guj gpgtu'qdugtxgf 'f wtkpi 'xkukv'
- DDS . 'qwf qqt' i tkn'uo qngt. 'hktg'r kv. 'gve0lp'dcenf ctf "
- Rqukkqp'qh'yj g'qwf qqt'o qpkqt'kpi 'kputwo gpw""
- Rqukkqp'qh'KCS 'o qpkqt'kpi 'lp'o clp'ikxpi 'ur ceg'cpf 'lp'o cuvgt'dgf tqgo "
- Rqukkqp'qh'E Q4'o qpkqt'kpi 'lp'qyj gt'dgf tqgo u""
- "
- "

Nqecv'kqp'E qf g"	F guetkr v'kqp""
I TM'	Mkej gp'ugev'kqp'qh'icti g. 'qr gp' i tgcvtqgo ""
I TF "	F lp'kpi 'ugev'kqp'qh'icti g. 'qr gp' i tgcvtqgo ""
I TN"	Nxlpi 'tqgo 'ugev'kqp'qh'icti g. 'qr gp' i tgcvtqgo ""
MKV"	Mkej gp'yj cv'ku'c'f k'k'k'p'ev'tqgo ""
NKX"	Nxlpi 'tqgo 'yj cv'ku'c'f k'k'k'p'ev'tqgo ""
FPT"	F lp'kpi 'tqgo 'yj cv'ku'c'f k'k'k'p'ev'tqgo ""
DT3"	O cuvgt'dgf tqgo ""

DT%	Qyj gt'dgf tqqo u'%'? '3.'4.'gve0'
QH%	J qo g'qhhleg"
F GP "	F gp'qt'qr gp'eqpxgtvgf "dgf tqqo ""
DC3"	O cuxgt'dcyj tqqo "
DC%	Qyj gt'dcyj tqqo u"
VQ3"	Vqkqv'tqqo 'kh'ugr ctevg'htqo 'o cuxgt'dcyj tqqo ""
VQ%	Qyj gt'vqkqv'tqqo u'kh'ugr ctevg'htqo "dcyj tqqo ""
NCW'	Ncwpf t{ 'tqqo "
I CT"	I ctcig"
WK'	Wkrk\{ 'erqugv'tqqo "

"  
"

Gs wkr o gpv'Eqf g"	F guetkr vqpm"
GH%	Gzj cwuv'hcpu'%'? '3.'4.'gve0'
GZ %'	Gzj cwuv'xgpv'u'qp'gzvgtkqt'y cm'
CU%	Ckt'j cpf rgt'uw r n\ 'tgi kuxgt'"
CT%	Ckt'j cpf rgt'tgwtp'tgi kuxgt"
CJ W'	Ckt'j cpf rgt'wpl'
CH%	Ckt'j cpf rgt'hkuxgt'"
VO %'	Vj gto quxv"
QJ V"	Qyj gt'j gcvpi "gs wkr o gpv"
QEN"	Qyj gt'eqqkpi "gs wkr o gpv"
I HR"	I cu'htgr nceg"l'iqi 'ugv'
Y J T"	Y cvgt'j gcvgt"
Y J H'	Y cvgt'j gcvgt'hwg'qp'gzvgtkqt'y cm'
FRV"	Urk kpi 'f qqt'vq'dcem\ctf "qt'r cvkq"
FI J "	F qqt'htqo 'i ctcig'vq'j qwug"
FHI"	Hqpv'f qqt"

TJ F "	Tcpi g'j qqf "
TFZ "	Tcpi g'j qqf "gzj cwu'xgpv'qp"gzvgtkqt'y cm'
E]Z[ _"	Eqqmqr "dwtpgt"
QXP "	Qxgp"
EFT "	Emvj gu'f t { gt "
FTZ "	Emvj gu'f t { gt "gzj cwu'xgpv'qp"gzvgtkqt'y cm'
J WO "	Ucpcf cnpvg'j wo kf lkg t "
FGI "	Ucpcf cnpvg'f gj wo kf lkg t "
ENP "	Ucpcf cnpvg'ck "engcpgt"
HTU"	Rnwi /kp'l'ukem'ck 'ht guj gpgt"
DDS "	Qwf qqt "dds "qt 'i t km'

"

"

O qpkqt "Eqf g"	F guetkr vkqp"
QW"	Rqukkqp"qh'qwf qqt"o qpkqt kpi "gs vkr o gpv'
KCS "	Rqukkqp"qh'lpf qqt"o qpkqt kpi "gs vkr o gpv' *kp"o ckp'rk kpi 'ur ceg'cpf 'lp"
EQ4"	Rqukkqp"qh'EQ4"o qpkqt kpi 'lp"qvj gt "dgt tqgo u"

"

## J. Conduct Diagnostic Tests

### DeltaQ Test

J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vko g<aaaaaaaa "Vgej pkekcp<aaaaaaaa "

"

Eqppgevqpu"

#### DG700 Control Connections"

Vj g'FI 922'pggf u'vq'dg'wtpgf "qp'cpf "eqppgevgf "vq"WUD"\*gkj gt'y kj "o kp'vq'tgi wxt"WUD'qt'kh' qif gt'y kj 'c'EEO "vq"WUD'eqpxgtgt+'dghqtg'uvctvpi 'yj g'F gncS 'r tqi tco <

"



Hki wtg'48'FI 922'eqppgevgf "vq"WUD"

FI 922'eqppgevgf 'y kj '3l: 'kp'0lcent'vq'dmry gt'f qqt "eqpvtqngt'0"Dmry gt'f qqt "eqpvtqngt'pggf u'vq'dg" luv'c'erlenlr cuv'öqhhö"\*qt'yj g'dmry gt'f qqt'fcp'y kn'pgxgt'wtp#0'



Hki wtg'49'FI 922'eqppgevgf 'y kj '3l: 'kp'0lcent'vq'dmry gt'f qqt "eqpvtqngt' "

"

"

"

**DG700 pressure tubing connections:**

J qwug'r tguwtg'qp'ej cppgnC"

Dmry gt'f qqt'qp'ej cppgnD"

Wug'c'j qug'hqt'kpukf g'r tguwtg'y kj "j qug"@2'h'cy c{ 'htqo "dmry gt'f qqt'qt"v"cpqj gt'tqgo 0"



Hki wtg'4: "J qugu'hqt'dmry gt'f qqt"

Y j gp'f gr tguwtk kpi ."wug'c"V"cpf "gzxc"j qug'v"eqppgev'j g'lpf qqt'r tguwtg'wdkpi "v"dqj " ej cppgn0Tgf "wdg'ku"v"dmry gt'f qqt0I tggp'wdg'v"j g"V'ku'lpf qqt'r tguwtg'cu'uggp'i qkpi "v" qj gt'tqgo 'kp'cdqxg'r kewtg0'



Hki wtg'4: "Vwdgu'eqppgev'v"v"j g'FI 922"

"

Y j gp'r tguwtk kpi ."wug'c"V"cpf "gzxc"j qug'v"eqppgev'j g'dmry gt'f qqt'tghgtgpeg"v"qwukf g" r tguwtg'cpf "qwukf g'r tguwtg'v"j qwug'ej cppgn0P qv'j cv'j g'lpf qqt'r tguwtg'ku'pqy "eqppgev'f " fktgevf "v"j g'FI 922'cpf "j g"V"eqppgev'j g'qwf qqt'r tguwtg'v"dqj "ej cppgn0'



Hki wtg'52'Gzco r ng'qh'V'epppgvqp'dgvy ggp'wdgu'cpf 'yj g'FI 922"

"

"

Qyj gt'wdkpi 'vkr u<

Vt { 'vq'hggr 'wdgu'cy c { 'htqo 'rcti g'ckt'o qxgo gpw'pgct'yj g'drny gt'f qqt0'

Vt { 'pqv'vq'vgr 'qp'wdgu#'

I gwkpi 'wdgu'qh'h'yj g'hrqqt'ecp'j gr <



Hki wtg'53'Qxgtcm'gizr gtko gpw'vugwki 'y kj 'wdgu'cpf 'yj g'FI 922"

"

"

Uqhy ctg "kpxncvqp" cpf "Ugwr "

### Installation

Twp'yj g'gz g'vq'kpxcm'vj g'uqhy ctg"

I q'vq'Rtqi tco u'/'@Gpgti {Eqpugtxcvqt {0""

Tki j'verkenlqp'f gncS "cpf 'ugpf 'vq'f gumqr "o'lwv'hqt'eqpxgplgpeg"

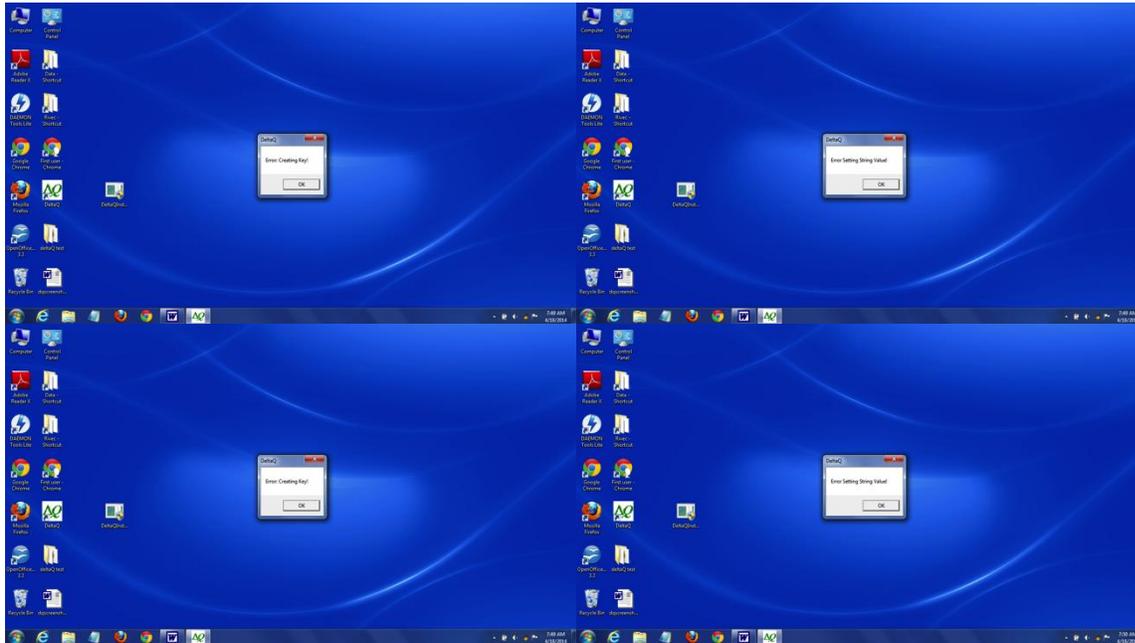


Hki wtg"54'F gncS "uqhy ctg'kpxncvqp"

"

Uctv'yj g'F gncS "uqhy ctg'd' { 'f qwdrg/erlenkpi "

Vj g'hqmqy kpi 'hqwt'gttqtu'eqo g'wr '/'/'{qw'ecp'ki pqtg'yj gug'gttqtu'cpf 'lwv'erlenlōQMō"



Hki wtg"55'Uctv'yj g'F gncS "uqhy ctg"

Cpqy gt'f'kcmj "dqz'y kj "ōNqcf "f ghcwm'eqphki wcvkqpō'eqo gu'wr 0'ErkenlōQMō"

Rtqi tco 'uj qwf 'uact'0



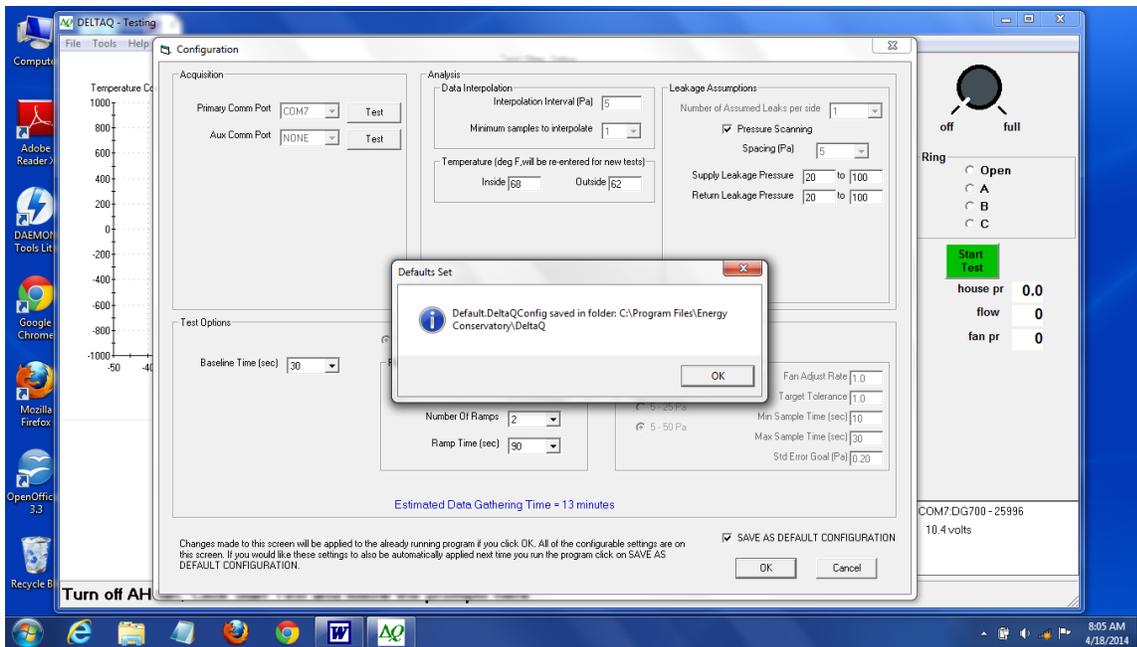


Kp"vj g'Ngcnai g'Cuuwo r vkpu'Dqz-<  
 P wo dgt"qh'cuwo gf "rgcnu<3"  
 Rtguwtg'uecppkpi 'uj qwr "dg'ej gengf "  
 Uwr n("cpf 't'gwtp'rgcnai g'r tguwtg'rko ku'uj qwr "dg'42"cpf '322'Rc0'  
 "

Kp"vj g'Vguv'Qr vkpu'Dqz-<  
 Dcugrkpg"Vko g<52u"  
 Tco r kpi "qr vkpu<"  
 Vj g'wug'qpnf "qpg'tkpi 'uj qwr "dg'ej gengf 0"  
 P wo dgt"qh'tco ru4"  
 Tco r "vko g<; 2'u"  
 "

Erkeni'qp'Sucxg'cu'f ghcwn'eqphki wtcvkpS'cpf "oQM60"Vj ku'uj qwr "o gcp'vj cv'vj g'pgz'v'vko g'{"qwt'wp"  
 yj g'uqhy ctg'qp'vj ku'eqo r wgt'{"qwf'q'pq'vj cxg'vq'f'q'vj ku'ugwr 'hqt'vj g'FI 922'ci ckp0'  
 "

Vj g'hqmqy kpi 'f'krcpi 'dqz'r qr u'wr "v'vgnl'{"qwy'j gt'g'vj g'f'cvc'qwr w'hkrgu'y kn'dg'uvqt'gf 0"Vj ku'ecpø'  
 dg'ej cpi gf "kp"vj g'uqhy ctg'vq'pq'vj g'f'kt'gevqt'{"cpf 'erkeni'QMD'  
 "



Hki wtg'5: 'Ucxg'vj g'eqphki wtcvkp'ugw'kpi 'hqt'vj g'FI 922'cv'vj g'F gncS 'uqhy ctg'"

"  
 "  
 "  
 "  
 "  
 "  
 "  
 "  
 "  
 "

Uctvki "c'P gy "Vguv"

Erlemhkg"/@pgy "

Cv'vj g'Vgo r gtcwtg'f kcmj "/gpvgt'vj g'kpf qqt'cpf "qwf qqt'vgo r gtcwtg'j' gtg"

Hqmjy "vj g'kpuv wv'kpu'qp'vj g'uetggp0'

Vj g'kpuv wv'kpu'i q'uvgr "d' "uvgr "vj tqwi j "vj g'hqwt'ugev'kpu'qh'vj g'v'guv"

30F gr tguwtk' cvkqp."ck'j' cpf rgt'hcp'qhh'

40F gr tguwtk' cvkqp."ck'j' cpf rgt'hcp'qp"

50Rt guwtk' cvkqp."ck'j' cpf rgt'hcp'qp"

60Rt guwtk' cvkqp."ck'j' cpf rgt'hcp'qhh'

"

Vj g'qpnf "gzegr v'kpu'ku'vj cv'vj g'hkuv'uvgr "vj cv'guvcdkuj gu'vj g'dmry gt'ugv'kpi "hqt'o czko wo "gpxgrqr g" r tguwtg'uj qwf "dg'v'wtp'vj g'hpqd'qp'vj g'uetggp'v'g'72'Rc'pqv'52'Rc0'

C'vr "j' gtg'o" { qw'wug'vj g'o qwug'v'q'r wv'vj g'kpf kcv'qt'qp'vj g'hpqd'qp'vj g'uetggp'v'q'qr gtcv'vj g'

dmry gt'f qqt0'k'vj g'dmry gt'f qqt'f qgu'pqv'wtp'qp'ej gen'vj cv'vj g'dmry gt'f qqt'eqpv'qmg'ku'erkngf "

k'p'vj g'q'p'r qv'k'k'p0'k'vj cv'f qgu'pqv'y qtm't { 't'guv'kpi "vj g'F gncS "uqhy ctg'v'qo gv'ko gu'k'h' { qw'

uvt'vj g'uqhy ctg'dgh'qtg'wv'kpi "qp'vj g'F I 922'vj g'eqo o w'k'cv'k'p'v'q'vj g'F I 922'f qgu'pqv'y qtm't0' ""

Cpqjy gt'vr <tgo go dgt'v'ej cpi g'vj g'tgh'g'peg'r tguwtg'hqt'vj g'dmry gt'f qqt'y j gp" { qw'ej cpi g'

htqo "f gr tguwtk' cvkqp'v'q'r tguwtk' cvkqp0' [ qw'y kn'dg'r tqo r vgf "v'f q'vj ku."d'w'k'ku'gcu'v'q'hqi gv0'

"

[ qw'y kn'ugg'vj g'f cv'dgkpi "r n'wgf "qp'vj g'uetggp0'Vj ku'ku'c'dki "j' gn "cu'k'j' gn u" { qw'v'ugg'y j gp"

uqo g'p'p'uvgr u'qp'c'r tguwtg'wdg'qt'k'h'c'dki "i wuv'qh'y kpf "eqo gu'c'qpi . "qt'k'h'uo g'p'p'qr g'pu'c"

f qqt'qt'y kpf qy "f w'kpi "vj g'v'guv0'

"

Ugg'F gncS "Vguv'kpi "S E'hqt'gzco r ngu'qh'y j cv'v'q'iq'q'nh'qt'k'p'o gcuwtg'f cv'c'y kj "uki p'h'k'cp'v'gttqtu" ecwugf "d' { 'y kpf 0'

"

Cv'vj g'g'pf "qh'vj g'v'guv'vj g'tguv'v'ctg'f kur n' { gf 0"

Tgeqtf "vj g'uvr r n' "cpf 't'gwtp'ck'h'ny "k'p'vj g'ur t'gcf'uj ggv'ki p'q'g'vj g'gttqt'gunko cvgu+0'

"

k' { qw'vj k'pni' { qw'j' cf "c'dki "i wuv'qh'y kpf "qt'v'qo gdqf { "uvgr r gf "qp'c'r tguwtg'wdg'f w'kpi "vj g'v'guv"

erlem'qp"o'v'q'q'u"/@t'gr gcv'c'uvgr o'c'p'f "ugr'ev'htqo "q'p'g'qh'vj g'hqwt'uvgr u'cd'q'x'g'v'q't'gf q0' [ qw'y kn'

hqmjy "vj g'r tqo r w'v'q't'gvcng'vj g'uvgr "vj cv' { qw'ugr'ev'f 0'

"

Vj g'uqhy ctg'v'cx'gu'c'm'vj g'f cv'k'p'", (f gncS f cv'v'gz'v'hkg0'Vj g'uqhy ctg'et'gcv'gu'c'F gncS "v'guv"

f k'gevt { "v'j g'v'co g'r n'eg'vj g'cr r n'ec'v'k'p'ku't'wp'htqo "+cpf "vj ku'ku'y j gtg'vj g' (f gncS f cv'h'kgu'ctg"

uq'gf 0'

"

Ch'gt'gcej "v'guv'ugtej "K'K'U'GUUGP V'ICN'v'q'ugtej "hqt'c'h'kg'ecmgf ""

F gncS Tgr qt'v'j vo n'c'p'f 't'gpco g'k'v'w'kpi "vj g'v'co g'h'kg'k'f g'p'v'k'gt'cu'wugf "v'q'v'cx'g'vj g'tcy "F gncS " f cv'0'"



## Exhaust Fan Airflow Testing

"

30 J qwug'KF <aaaaaaaa "F cyg<aaaaaaaa "Vko g<aaaaaaaa "Vgej pkekcp<aaaaaaaa "

"

40 F guetkdg'vj g'gzj cwv'hcp'dgkpi 'vgvuf 0"

"

c0 Nqecv'kp<aaaaaaaaaaaaaaaaaaaaaaaaaaaa "

"

d0 Uy kej 'ugw'kpi <aaaaaaaaaaaaaaaaaaaaaaaaaaaa "QpIQhA'Vko gt'ugw'kpi A' "

"

e0 I t'kng'eqpf'k'k'kp<aaaaaaaaaaaaaaaaaaaaaaaaaaaa "F wv'AD'ncnci gA' "

"

f0 Vcng'r'j qvq "

Ugr 'dcen'v'uj qy 'gzj cwv'tqgo 'kp'vj g'tqgo "

Gzj cwv'hcp'i t'kng'emugwr "

Gzj cwv'hcp'uy kej 'emugwr "

"

50 Eqppgev'o gvtkpi 'dqz'v'FI /922"

c0 Eqppgev'w'k'kpi 'v'Ej c'ppgn'D'k'p' w'v'cr "

"

60 Ugr'ev'c'f'qqt'r'qu'k'k'p'qp'vj g'o gvtkpi 'dqz "

c0 G3<'66'v'q'346'EHO "

d0 G4<'43'v'q'7; 'EHO "

e0 G5<'32'v'q'4: 'EHO "'

"

70 Vwtp'qp'FI /922"

c0 Ugr'ev'F'GX'EG'?'GZJ "

d0 Ugr'ev'vj g'eqph'ki w'c'v'k'p'vj cv'o cvej 'vj g'f'qqt'r'qu'k'k'p' "

G3<'EQP'HK' '?' 'C3"

G4<'EQP'HK' '?' 'D4"

G5<'EQP'HK' '?' 'E5"

"

80 O gcw'wg'gzj cwv'hcp'c'k'h'qy "

c0 Vwtp'qp'gzj cwv'hcp' "

d0 R'rc'eg'o gvtkpi 'dqz'qxgt'hcp'i t'kng'v'q'i gv'c'c'k'v'ki j v'ug'c'i' "

e0 J q'rf'h'qt'c'v'ig'cu'32'uge'q'p'f'u'h'qt'c'w'q'g' | g't'q'k'p'i "

"

f0 Tge'q't'f'EHO <aaaaaaaa. "aaaaaaaa. "aaaaaaaa "

"

Ceegr v'cd'rg't'g'c'f'k'p'i 'k'h'5'u'w'd'ugs w'gp'v't'g'c'f'k'p'i u'v'KIO G'CXI' '?' '7'uge'q'p'f'u' "

ctg'c'r'r't'q'z'k'o c'v'gn'f' '-' '7'EHO "'

C'f'l'w'v'f'q'q't'r'qu'k'k'p'c'p'f'FI /922'ugw'k'p'i 'k'h'r't'g'u'w't'g'h'c'm'u'q'w'w'k'f'g'q'h'3'v'q' "

: 'Rc't'c'p'i g' "

K'i'@ 'Rc.'k'p'et'g'c'ug'q'r'g'p'k'p'i 'u'k' g'v'q'y c't'f'u'G3+' "

Ki>3"Rc."f getgcug"qr gplpi "uk g"\*qy ctf u'G5+"

"

90 Tgwtp"gzj cwv'hcp"vq"qtki kpcn'ugwkp'i r tkqt"vq'vgn0"

"

:0 Vko g'Eqo r ngvf <aaaaaaaaaa"

## Range Hood Airflow Testing

"

30 J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekcp<aaaaaaaa "

"

40 Rgthqto 'uqwpf "ej genl'

"

c0 Uctv'pqkug'ngxgn'cr r "gfi 0'URN'Rtq+ "

"

d0 O gcuwtg'dceni tqwpf "pqkug'hqt'82"ugeqpf u"

"

e0 F gvgto kpg'vj g'pwo dgt "qh'hcp'ur ggf "ugwkipi u"  
 Hqt "f wcn'hcp'tcpi g'j qqf . "gcej 'hcp"o c { "dg'eqpvtqmgf "ugr ctcvgn( 0Hqt "  
 gzco r ng."ghv'hcp"QP IQHH'cpf 'tki j v'hcp"Nqy IQHHIJ ki j "o gcpu'7'ugwkipi u"  
 vq "dg'\vgugf 0"

"

f0 O gcuwtg'vj g'pqkug'ngxgn'qh'tcpi g'j qqf "cv'gcej "hcp'ugwkipi "  
 Vcng'r lewtg'qh'vj g'hcp'ugwkipi "dgkpi '\vgugf 0"

"



Hki wtg'5; 'Gzco r ng'qh'vj g'r j qq'qh'vj g'hcp'ugwkipi "

"

Eqmgev'52"ugeqpf u'qh'f gekdgn'o gcuwtgo gpw'cv'gcej "ugwkipi "Itqo 'tqwi j n' "

y j gtg'c'eqqmly qwrf "ucpf "cpf "eqo r ngvg'cdrg"

"

Hcp'Ugwkipi "	Vlo g'Uctv'	Vlo g'Gpf "	F gekdgn'
O GF "	"	"	.....f dC "
NQY "	"	"	.....f dC "

J K J "	"	"	*****f dC"
---------	---	---	------------

50 Ugwr 'tapi g'j qaf 'ecr wtg'dqz'cpf 'F wevDrcuvt'hcp"

c0 Ugwr 'F wevDrcuvt'hcp, 'pgct'vj g'tapi g'j qaf 'cpf 'r nwi "eqpvtqmg't'vq'c'r qy gt'qwrqv'  
 \*, pqvg<'hcp'vgpf u'vq'tkr 'I HEKr tqvgev'f'qwrqv.'f q'pqv'wug'qwrqv'htqo 'hkej gp'qt "  
 dcvj tqgo u.'twp'cp'gzv'gukqp"eqtf 'htqo 'cp'cf lcegpv'tqgo 'kpuvcf +"

d0 Cwcej . 'hqt'gzco r rg.'tkpi "4'vq'F wevDrcuvt'hcp"

Hqt'Ugt'ku'D'F wevDrcuvt'

Tkpi "3<: 22'vq'447'EHO "

Tkpi "4<522'vq"; 2'EHO " 'v'r kecn'ht'api g'j qaf "

Tkpi "5<347'vq'32'EHO ""



Hki wtg'62'Gzco r rg'qh'vj g'F wevDrcuvt'hcp"

e0 Urf g'ecr wtg'dqz'w'pf gtpgc'v' 'tapi g'j qaf "

f0 Cr r n' 'dnw'v'cr g.'f wev'o cun'kpi 'v'cr g.'gve0'vq'ugewt'g'cpf 'ugcn'cm'gf i gu"

g0 Cwcej 'hgz'f wev'vq'ecr wtg'dqz "



Hki wtg'63'Gzco r ng'qh'cwcej gf 'hgz'f wev'vq'ecr wtg'dqz"

"

10 Eqppgev'hgz'f wev'cpf "wdkpi "vq'F wev'Drcuvt'hrp"

"



Hki wtg'64'Gzco r ng'qh'eqppgev'f 'hgz'f wev'cpf "wdkpi "vq'F wev'Drcuvt'hrp"

"

"

- i 0 Eqppgev'wdkpi u'htqo 'ecr wtg'dqz'cpf 'F wevDrcuvtg'hcp'vq'FI /922"  
 Ecr wtg'dqz<Ej cppgnD'kpr w"  
 F wevDrcuvtg'hcp<Ej cppgnD'kpr w"
- j 0 Y kj 'vj g'F wevDrcuvtg'hcp'qhh'wtp'qp'tcpi g'j qqf 'vq'ugg'vj cv'ecr wtg'dqz'ku'cv"  
 rguv'/32'RC'v{r lecm{.'{ qw'uj qwf 'ugg'/42'vq'/52'RC+0'  
 K'vj g'ecr wtg'dqz'ku'f gr tguwtk gf 'd{ 'rgu'vj cp'32'RC.'vj gtgau'hkgn{ 'c"  
 rgn0Hggri'ctqwpf 'vj g'ecr wtg'dqz'cpf 'cr r n{ 'dnwg'vcr g'vq'i gv'c'dgwtg'ugcr0"
- "
- 60 O gcuwg'tcpi g'j qqf "ckhny "
- "
- c0 Eqppgev'FI /922'cpf 'F wevDrcuvtg'hcp'eqpvtqngt'vq'gpcdr'Et wkg'Eqpvtqr0"
- "
- d0 Vwtp'F wevDrcuvtg'hcp'eqpvtqngt'vq'olwuv'qpö'r qukkqp'vq'0hcp'QP.'hcp'ur ggf "
- NQY +0'
- "
- e0 Vwtp'qp'vj g'FI /922'cpf 'ugrgev'Rt guwtg'Iny 'o qf g0'
- "
- f0 Ugrgev'F GXIEG'? 'FD'D'\*Ugtkgu'D'F wevDrcuvtg'hcp+0Rtguu'EQP HK "dwwqp'vq"  
 ugrgev'Iny 'tkpi "uk g0"  
 C3'? "Tkpi "3"  
 D4'? "Tkpi "4"  
 D5'? "Tkpi "5"
- "
- g0 Uctv'tcpi g'j qqf 0Ugrgev'o gf kwo "vq't'ny +'hcp'ugwki 'vq'uctv0Vcng'pqvg'qh'vj g"  
 ur ggf 'ugwki 0"
- "
- h0 Rtguu'DGI R 'ETWKG'dwwqp'vq'gpvt'ugwr 0Ugrgev'- 2'RC'cu'vj g'vcti gv'r tguwtg0'
- "
- i 0 Rtguu'UVCTV'HCP 'dwwqp'vq'dgi kp'tco r kpi 'wr 'vj g'hcp'vq'cej kxg'vj g'vcti gv'  
 r tguwtg0Tgeqtf 'vj g'Ej cppgnD'hcp'Iny 0"
- "

Hcp'Ugwki "	Vko g"	Ckhny "
O GF "	"	....."EHO "
NQY "	"	....."EHO "
J K J "	"	....."EHO "

- j 0 O gcuwg'ckhny 'cv'qj gt'hcp'ugwki u0"  
 K{qwp'ggf 'vq'ej cpi g'Iny 'tkpi .'dg'wtg'vq'gpvt'vj g'pgy 'tkpi 'uk g'lp'FI /  
 922'd{ 'wukpi 'EQP HK "dwwqp0"
- "
- k0 Tgr gcv'ckhny 'o gcuwgo gpv'cv'vj g'htuv'hcp'ugwki 'vj cv'j cu'cit gcf { 'dggp'vugvf 0'
- "

10 Vcng'c'rj qv'qh'{qwt'ugwr 'f wt lpi 'yj g'tgr gcvgf 'vgu0kpenmf g'yj g'hqmgy lpi 'emug/  
 w u.'cpf 'c'i gpgtcrlr j qv'qh'{qwt'ugwr <  
 Tcpi g'j qf 'ecr wtg'dqz"  
 F wevDrcugt 'hpc'\*uj qy 't lpi 'uk g+ "  
 FI /922"  
 RE'uetggpuj qv"

"

70 Y tcr 'wr "

"

c0 Ej gen'q'o cng'ugt g'yj cv'{qw'eqmgev f 'uqwpf "cpf "ckhny "cv'cm'hcp'ugw lpi u0'

"

d0 Ej gen'q'o cng'ugt g'yj cv'{qwtgo qxg'cm'cr g'htqo 't cpi g'j qf 0'

"

e0 Vko g'Eqo r ngvf <aaaaaaaaaa"

"

## Supply Fan Airflow Testing

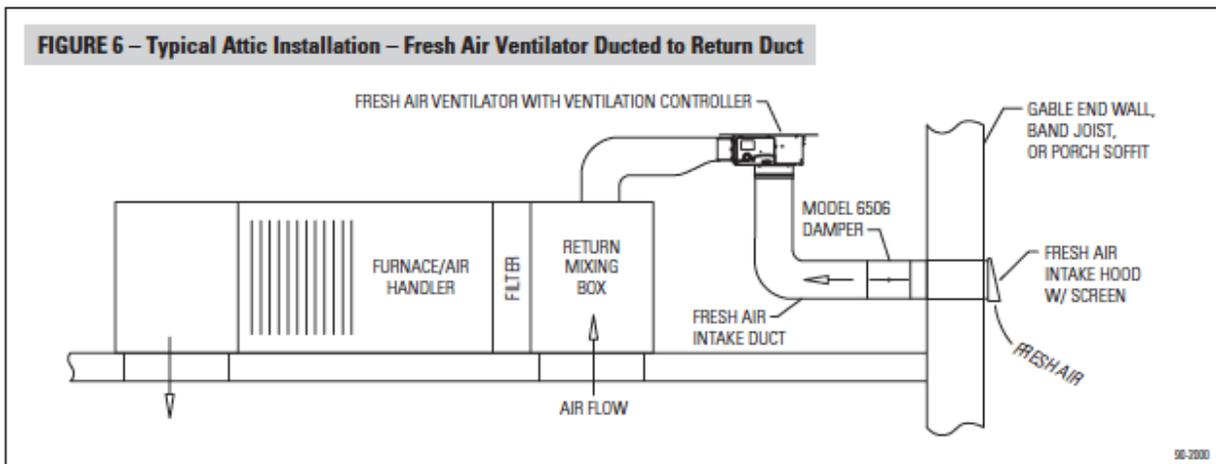
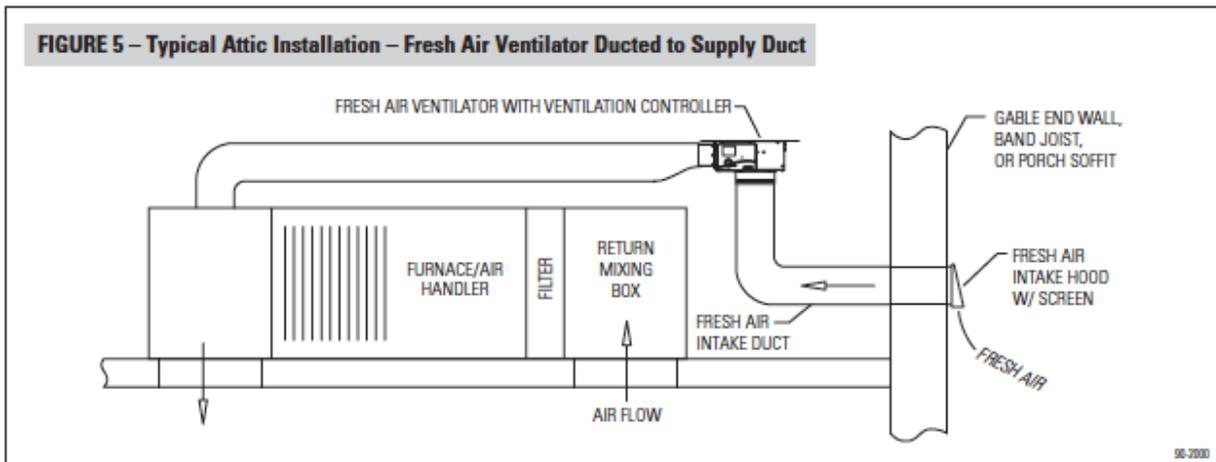
30 J qwug'K <aaaaaaaa "F cyg<aaaaaaaa "Vko g<aaaaaaaa "Vgej pkekcp<aaaaaaaa "

40 Nqecvg'c'ugevqpp'qh'yj g'f wev'wr utgco "qh'yj g'lp/rlpg'hcp'yj cv'ku'ceeguukdng'hqt'o gcuwtkpi " cktmry 0'

c0 F qy putgco 'r qukkqp'ku'ceegr vdrng'kh'pq'wr utgco 'r qukkqp'ku'uwkcdng0'

d0 Vj g'Mgrg'CO R'Ugtkgu'ck'xgrmek' r tqdg'uj qwr 'dg'lpucmgf 'yj tqwi j 'yj g'y kf yj 'qh' yj g'f wev'cv'rgcu'5'f wev'f lco gvtu'cy c { 'htqo 'f co r gtu'qt'gndqy u0"

e0 O ctmlo gcuwtgo gpv'qecvqpp'lp'yj g'hki wtg'dmry 0"



Hki wtg'65"Vy q'v'r gu'qh'v'r kecn'cwe'lpucm'vqpp"

50 Vcmg'r j qvqu'qh'qecvqpp'yj g'g'yj g'ck'xgrmek' r tqdg'y kn'dg'lpucmgf 0"

c0 Ugr dcent'v'uj qy 'yj g'f wev'eqppgev'kpi 'v'q'yj g'lp/rlpg'hcp'cpf 'yj g'lp'rgv'vgt o kpcr0'

d0 Emugwr 'qh'yj g'ck'xgrmek' r tqdg'lpucm'vqpp'qecvqpp0"

60 O gcuwtg'yj g'f wev'f lco gvt<aaaaaaaaaaaaaaaaaaaaaaaa "

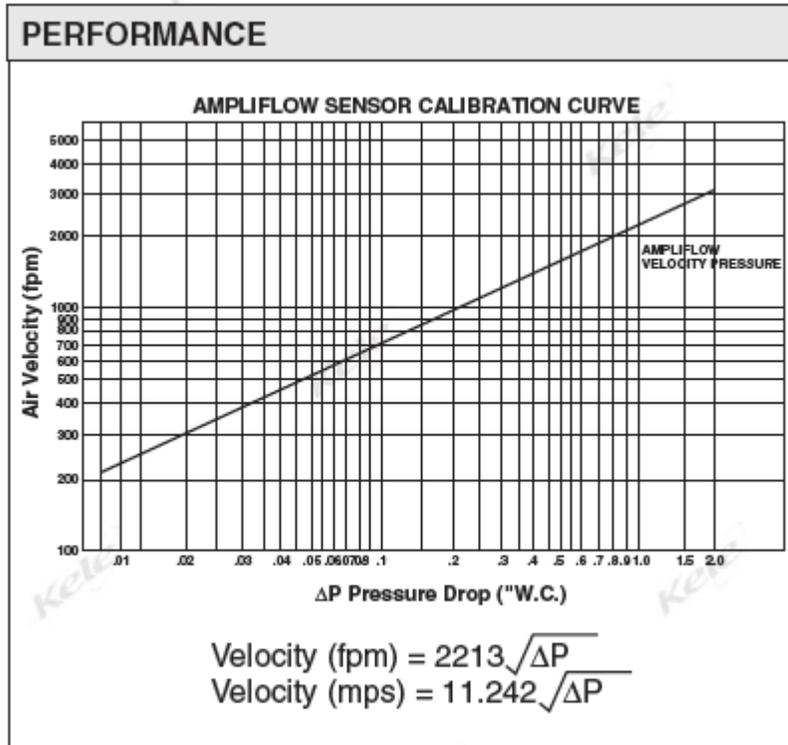
70 Kpucni'j g'ckt'xgnqekv'r tqdg0'  
 c0 Ew'c'j qm'207öJ 'z'20 : öY 'kp'yj g'f wex0'  
 d0 Kpugt'v'cpf 'ugewtg'yj g'r tqdg0"

80 Cwcej 'yj g'r tguwtg'r qtv'vq'FI /9220'

90 Tgeqtf 'r tguwtg'qr gtcv'kp'tcpi g'ltqo "40'Rc"\*20"Y OE0'vq"722'Rc"40"\*Y OE0+"

c0 Tgeqtf 'Rc"<aaaaaaaaaaaa."aaaaaaaaaaaa."aaaaaaaaaaaa"

Ceeqr vcdrg'tgcf kpi 'kh'5'uidugs wgpvt'gcf kpi u"\*VIO G'CXI "? '7'ugeqpf u+  
 ctg'crr tqzko cvgn( " - 1"32' "



Hki wg'66'Co r rkhqy "ugpuqt'ecrkdte'v'q'ewt'xg"

: 0 Tgo qxg'yj g'r tqdg'cpf 'ugcn'j qm'y kj 'o gvcnke'vcr g0Vcmg'c'rj qv'ht'f qewo gpcv'kp0"

; 0 Ecrcw'v'g'ckh'qy "EHO +"? "X"\*r o +z'C"\*h4+?"aaaaaaaaaaaaaaaaaaaaaaaaaaaa"

## Clothes Dryer Airflow Testing

"

30 J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vko g<aaaaaaaa "Vgej pkekcp<aaaaaaaa "

"

40 Nqecvg'yj g'emqyj gu'f t { gt'xgpv'ltqo "qwukf g0Nqecvg'cp'qwf qqt'grgevt'lecn'qwwrgv'htq"  
r qy gt'kpi "yj g'F wev'Drcuygt 'hcp0"

"

50 Ugwr 'ecr wtg'dqz"cpf "eqppgev'k'vq'kprgv'ukf g'qh'yj g'F wev'Drcuygt 'hcp'wukpi 'hrgz'f wev0"

"

c0 Cwcej . 'hqt'gzco r rg.'tkpi "5'vq'F wev'Drcuygt 'hcp"  
" " Hqt'Ugt'kgu'D'F wev'Drcuygt'  
Tkpi "3'<: 22'vq'447'EHO "  
Tkpi "4'<522'vq"; 2'EHO "  
Tkpi "5'<347'vq'32'EHO ""

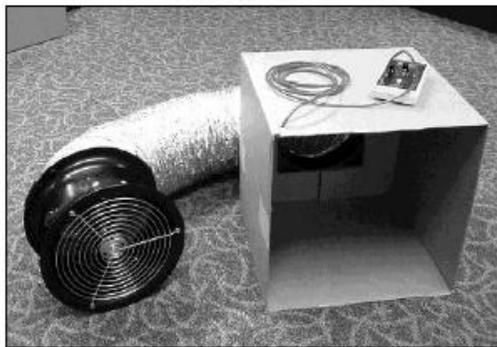
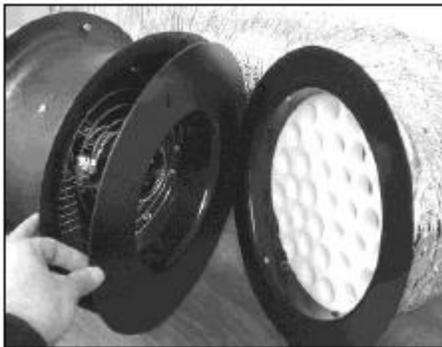
"

d0 Kpugt'v'hrqy "eqpf'kkqpgt"t'qwpf "3/kpej 'hqcqo "f'kum'kpv'vj g'tqwpf "t'cpuk'kqp'r'kgeg"

"

e0 Cf'lwuv'yj g'hrgz'f wev'uwej "yj cv'k'ku'ut'gvej gf "t'grcv'xgn' (ut'cki j v'htq "cdqw'6'hw"  
y j gt'g'k'ku'eqppgevgf "vq'vj g'F wev'Drcuygt 'hcp0"

"



Hki wtg'67'Gzco r rg'qh'cf'lwuv'f "yj g'hrgz'f wev'vq'vj g'F wev'Drcuygt 'hcp"

"

60 Eqppgev'wdkpi u'htqo "ecr wtg'dqz"cpf "F wev'Drcuygt 'hcp'vq'FI /9220'  
c0 Ej cppgn'c'kpr ww'ecr wtg'dqz "  
d0 Ej cppgn'D'kpr ww'F wev'Drcuygt 'hcp"  
e0 Ej cppgn'D'tgh't'qwpf "t'cpuk'kqp'r'kgeg"

"

70 Eqppgev'FI /922'cpf "F wev'Drcuygt 'hcp'eqpvt'qmg't'vq'gpcdrg'Et'w'lug'Eqpvt'qr0"

"

80 Vwtp'F wev'Drcuygt 'hcp'eqpvt'qmg't'vq'ol'wuv'qpö'r'qukkqp"i0h'cp'QP . 'hcp'ur'ggf "NQY +0'

"

90 Vwtp'qp'vj g'FI /922'cpf "ugrgev'Rt'guuwt'g'hrqy "o'qf'g0'

"

: 0 Ugrgev'F GXÆG'? 'F D'D'\*Ugtlgu'D'F wevDrcvugt'hcp+0Rtguu'EQP HK "dwwqp"vq'ugrgev'tlpi "

ukl g0"

"

; 0 Uctv'emqyj gu'ft {gt0Ugrgev'gkij gt'öpqto crö"qt"ör gto cpgpv'r tguuö"ugwłpi 0Vcmg"c'rj qvq"qh' vj g'ugwłpi 'ugrgev'f 0"

"

Uctv'Vlo g<"aaaaaaaaaaaaaaaaaaaaaaaaaaaa"

"

320 Rtguu'DGI RP 'ETWKG"dwwqp"vq"gpvgt'ugwv 0Ugrgev'/2'Rc"cu'vj g'vcti gvr tguwtg0"

"

330 Rtguu'UVCTV'HCP "dwwqp"vq"dgi kp"tco r kpi "wv "vj g'hcp"vq"cej kxg"vj g'vcti gvr tguwtg0" Tgeqtf "vj g'Ej cppgn'D'hcp'hqy 0"

"

Enqyj gu'Ft {gt'Clkhnqy <"aaaaaaaaaaaaaaaaaaaaaaaaaaaa" \*EHO +"

"

Kl'ckhnqy "ku"qwwkf g'qh'vj g'ecrkdtevgf "tcpi g."ej cpi g'hqy "tlpi "cpf "tgvu0Tgo go dgt"vq" cnuq"ej cpi g'EQP HK "qp'FI /922"vq"o cvej "vj g'kpucmgf 'hqy "tlpi "ukl g0"

"

340 Rtguu'UVQR'HCP "dwwqp"vq"vwp"qhh'hcp"y j gp"fqpg'Et wklpi 0"

"

350 Vwp"qhh'emqyj gu'ft {gt0

"

Gpf "Vlo g<"aaaaaaaaaaaaaaaaaaaaaaaaaaaa"

"

## K. Post-Visit Data Processing

### Prepare and Send Samples to LBNL

"

30 J qwug'KF <aaaaaaaa "F cvg<aaaaaaaa "Vgej plekp<aaaaaaaa "

"

40 Uctv'Vko g<aaaaaaaa "Uqr "Vko g<aaaaaaaa "Uco r rg'Nqecvkqp<aaaaaaaa "

"

"

50 Qi cy c'P Qz IP Q4'uco r rgtu"

"

c0 Gpvt'y g'J qwug'KF ."Uco r rg'KF ."F cvg."Uctv'Vko g."Uqr "Vko g."Uco r rg'Nqecvkqp'lp'y g"  
ur ceg'r tqxkf gf "qp'c' l k m eni h ggl gt'dci "qh'y g'uco r rgt0"

"

"	Uco r rg'KF , "	Uctv'Vko g"	Uqr "Vko g"
Qwf qqt"	"	"	"
Kpf qqt'O qpkqt lpi "Ucvkqp"	"	"	"
Kpf qqt'O qpkqt lpi "Ucvkqp" *F wr rkecvg+ "	"	"	"
Hkgr 'Drcpm'	"	"	"

"

"

"

60 UME "WO Gz "322'uco r rgtu"

c0 Cwcej 'y g'Ncdgm'qp'y g'r qwej ""

d0 Gpvt'y g'J qwug'KF ."Uco r rg'KF ."F cvg."Uctv'Vko g."Uqr "Vko g."Uco r rg'Nqecvkqp'lp'y g"  
ur ceg'r tqxkf gf "qp'y g'r qwej 0"

"

"	Uco r rg'KF , "	Uctv'Vko g"	Uqr "Vko g"
Qwf qqt"	"	"	"
Kpf qqt'O qpkqt lpi "Ucvkqp"	"	"	"
Kpf qqt'O qpkqt lpi "Ucvkqp" *F wr rkecvg+ "	"	"	"
O cuvt'Dgf tqgo ""	"	"	"

"

70 Ugcni'y g'r qwej "

80 Rw'y go 'lp'y g'eqqrgt'y kj "dnwg'leg""

90 Rwc'Qpugv'Vgo r gtcwt gIT grv'xg'J wo kf kv' 'ugpuqt'lp'y g'eqqrgt'""

: 0 Ugpf 'y go 'y kj 'y ku'lj ggv'q'NDP N'ht'cpcn'uku"

**Data Download Checklist**

"  
 J qwug"KF <aaaaaaaa "F cvg<aaaaaaaa "Vlo g<aaaaaaaa "Vgej plekp<aaaaaaaa"  
 "  
 F cvg"qh'3uv'F c{ 'qh'Uco r rkp i "? [ [ [ /O O /FF "  
 Z "? "aaaaa '3"\*RI G/Ugv3+."aaaaa '4"\*RI G/Ugv4+."aaaaa '5"\*UEI /Ugv3+."aaaaa '6"\*UEI /Ugv4+ "  
 "

Kputwo gpv"	Hrgpco g"	Nqecvkqp"	P qvgu"
Qwf qqt"RO "	RO Qa2Z3aNqeaF cvg"	Qwf qqt "*"QWV+ "	"
Kpf qqt"RO "	RO K2Z3aNqeaF cvg"	"	"
P Q4'Kputwo gpv"	P Q4a2Z3aNqeaF cvg"	"	"
Hqto cxf gj { f g" Kputwo gpv"	HTO a2Z3aNqeaF cvg"	"	"
	HTO a2Z4aNqeaF cvg"	"	"
EQ4'F cvmqi i gt"	EQ4a2Z3aNqeaF cvg"	"	"
	EQ4a2Z4aNqeaF cvg"	"	"
	EQ4a2Z5aNqeaF cvg"	"	"
	EQ4a2Z6aNqeaF cvg"	"	"
	EQ4a2Z7aNqeaF cvg"	"	"
Fki k'ugpug" Cpgo qo gvt"	CPO a2Z3aNqeaF cvg"	"	"
	CPO a2Z4aNqeaF cvg"	"	"
	CPO a2Z5aNqeaF cvg"	"	"
	CPO a2Z6aNqeaF cvg"	"	"
KDWwqp" Vgo r gtcwgt" Nqi i gt"	KDWa2Z3aNqeaF cvg"	"	"
	KDWa2Z4aNqeaF cvg"	"	"
	KDWa2Z5aNqeaF cvg"	"	"
	KDWa2Z6aNqeaF cvg"	"	"
	KDWa2Z7aNqeaF cvg"	"	"
	KDWa2Z8aNqeaF cvg"	"	"
Qpugv'Ucvg'F cvc" Nqi i gt"	UVCa2Z3aNqeaF cvg"	"	"
	UVCa2Z4aNqeaF cvg"	"	"

	STA_0X3_Loc_Date		
Onset Motor On/Off Data Logger	MTR_0X1_Loc_Date		
	MTR_0X2_Loc_Date		
	MTR_0X3_Loc_Date		
Onset Plug Load	PLD_0X1_Loc_Date		
Onset Temp/RH Data Logger	TRH_0X1_Loc_Date		
	TRH_0X2_Loc_Date		
Onset Enclosed Temp/RH Data Logger	TRO_0X1_Loc_Date		
	TRO_0X2_Loc_Date		
	TRO_0X3_Loc_Date		
	TRO_0X4_Loc_Date		