

Attachment 16
SITE SAFETY AND HEALTH PLAN (HTRW)

Eye/face protection "ó"Y gct "r tqvevkp" r tguetkdgf "lp" **Table A16-30** "F kuctf "y j gp" r tqvevkp "ku" uetvej gf " qt" y qtp "ko r cevkpi "xkuklkx" (0" "Kl" hceg" uj kgrf u" ctg" y qtp "hqt" "ej go lecl" ur ruij . "cnuq" y gct "ur ruij "i qi i rgu" wpf gtpgcvj 0" "Uchgv" "i rnuugu" y kn" dg" y qtp" wpf gt "hceg" uj kgrf u" hqt" ko r cev' r tqvevkp" cpf "wpf gt" y grf kpi " j gm guo" "Ngpu" uj cf g" y kn" dg" ugrgevgf "dcugf "qp" j c| ctf . "hmqy kpi "UQR" Gpxkqpo gpv. "Uchgv" cpf "S wcrk" { " *GUS +/80" *Vcunl kputwevkp "80024+"

Hearing Protection "ó"Y gct "j gctkpi " r tqvevkxg" f gxlegu" lp" ceeqtf cpeg" y kj " o cpwcewtgtu" kputwevkpu. " kpenmf kpi "Hskpi " cpf "kputvkp0" "Wug" qh" ur gekhle" f gxlegu" y kn" dg" rko kgrf "vq" gzt quwtgu" y kj kp "vj g" pqlug" tgf wevkp "tckpi u0"

Fall Protection "ó" Hqt "vj g" cevkxkkgu" eqxgtgf "d { "vj ku" UU R. "hcnl" r tqvevkp "ku" pqv" cpvlekr cvgf =j qy gxgt. "kh" k" dgeqo gu" pgeguuct { . "vj g" Uchgv" cpf "J gcnj "O cpci gt "U O +y kn" r tgr ctg" c" uksg/ur gekhle" hcnl" r tqvevkp "r rcp" cpf "uwo k/k" vq" vj g" Eqpvtcevkpi "Qhhegtu" T gr t gugpvckxg "EQT" +hqt "ceegr vcepg" dghgtg" r tqeggf kpi 0"

5.3 Work Mission Duration

Y qtmlo kuukp "f wcvkpu" y kn" dg" rko kgrf "vq" ceeqo o qf cvg" ceegr vcdrg" ugtxleg" rkhg" qh" vj g" RRG0"

Y j gtg" RRG" o c { "ecwug" c" j c| ctf . "uwej "cu" j gcv" utguu. "y qtmlo kuukp "f wcvkpu" y kn" dg" f gvgto kpgf "kp" vj g" CJ C" d { "vj g" UU Q" y kj "vj g" cuukncpeg" qh" vj g" U O 0" Go r m { ggu" o wuv" gzk" vj g" gzenwukp" | qpg" *G +hqt "tguv" qt" o qpkqt kpi "kp" ceeqtf cpeg" y kj "vj g" guvdrkuj gf "uej gf wrg0"

5.4 PPE Maintenance and Storage

K/ku" ko r qtvcpv" vj cv" cm" RRG" dg" mgr v" ercep" cpf "r tqr gtn" "o ckpvcpgf 0" "Ercep" kpi "ku" r ctvewrctn" "ko r qtvcpv" hqt" g { g" cpf "hceg" r tqvevkp" y j gtg" f kv" "qt" hqi i gf "hpgugu" eqwrf "ko r ckl" xkukp0" Go r m { ggu" o wuv" kpur gev. "ercep." cpf "o ckpvc" vj gk" RRG" ceeqtf kpi "vq" vj g" o cpwcewtgtu" kputwevkpu" dghgtg" cpf "chgt" gcej "wug0" Uwr gt xluqtu" ctg" t gur qpukdr" hqt "gputkpi "vj cv" wugu" r tqr gtn" "o ckpvc" vj gk" RRG" kp" i qpf "eqpf kkp0"

Rgtuqpcn" r tqvevkxg" gs wkr o gpv" o wuv" pqv" dg" uj ctgf "dgvy ggp" go r m { ggu" wvkn" k" j cu" dggp" r tqr gtn" "ercep" gf " cpf "ucpkk" gf 0" RRG" y kn" dg" f kvtkdwgf "hqt" kpf kxk" wcn" wug" y j gpgxgt "r quukdr0" "Y j gtg" go r m { ggu" r tqxk" f" vj gk" "qy p" r tqvevkxg" gs wkr o gpv. "GEE" y kn" dg" t gur qpukdr" vq" cuuwg" ku" cf gs wce { . "kpenmf kpi " r tqr gt" o ckpvcpeg. "cpf "ucpkvc" qp" qh" uvej "gs wkr o gpv0"

5.5 PPE Decontamination and Disposal

K/ku" cpvlekr cvgf "vj cv" o quv" qh" vj g" RRG" wkrk" gf "qp" vj g" r tqvevk. "dg { qpf "vj g" dcuke" RRG" grgo gpw" *j ctf "j cv. "uchgv" " i rnuugu. "uvgn" vqgf "dqvu. "rgcv" gt "i rnxgu. "y kn" dg" qh" c" f kur qucdrg" pcwrg" *pktkrg" qt "qvj gt" "ej go lecl" i rnxgu. " gct" r mwi u. "dqv" eqxgtu. "cpf "V { xgm @-0" Eqpvc o kpcvgf "RRG" y kn" dg" eqngevgf "kp" c" f gf kcvgf "eqpvckpgt" cpf " f kur qugf "qh" r r tqr tkvgn" "cv" c" uwkcdrg" hcekrk" 0" Dcugf "qp" vj g" eqpvco kpcpv" r t gugpv" cpf "vj gk" "eqpegpvtcvkpu" k/ku" cpvlekr cvgf "vj cv" f kur qucdrg" RRG" y kn" dg" f kur qugf "qh" cu" pqp/ j c| ctf qwu" y cvg0"

Gcto wtu. "uchgv" "i rnuugu. "cpf "qvj gt" pqp/ f kur qucdrg" hqto u" qh" RRG" y kn" dg" tqwkpgn" "y kr gf "ercep" qh" cp { "xkukdr" eqpvco kpcvkp" chgt" gcej "wug0"

5.6 PPE Training and Proper Fitting

Wugtu" y kn" dg" "tckpgf "qp" vj g" ugrgevkp. "wug" cpf "rko kcvkpu" qh" RRG0" Gcej "chhgev" go r m { gg" y kn" go qpwtcv" cp" wpf gtucpf kpi "qh" vj g" "tckp" kpi "ur gekhgf "kp" vj ku" ugevkp. "cpf "vj g" cdkk" "vq" wug" RRG" r tqr gtn" . "dghgtg" dglpi " cmqy gf "vq" r gthqto "y qtmn" gs wtkpi "vj g" wug" qh" RRG0"

Uj qwf "GEE" j cxg" tgcup" vq" dgrkxg" vj cv" cp { "chhgev" go r m { gg" y j q" j cu" crtgcf { "dggp" "tckpgf "f agu" pqv" j cxg" vj g" wpf gtucpf kpi "cpf "unkn" gs wtkgf "qh" vj ku" ugevkp. "vj g" go r m { gt" y kn" gtckp" vj cv" go r m { gg0"

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I rixgu."j gcf "i gct."eqxgcmu."cpf "hqqy gct"o wu'hk'r tqr gtn{ "v"cxqkf "vkr r kpi "cpf "upci i kpi "j c| ctf u."qt" eqpwtvkvqp"cpf "vgctkpi 0"J gctkpi "r tqvkvqp"y kn'dg"ej gengf "d{ "y g'wugt"cpf "UUJ Q'hqt"r tqr gt "hk'cpf "o wuv dg'kpugtvgf ly qtp'kp"ceeqtf cpeg'y kj "o cpwhcewtgt'kpwtvkvqp0"

5.7 PPE Donning and Doffing Procedures

Vj g'UUJ Q'y kn'tckp"qp"cpf "f go qpwtcvg"r tqr gt "f qppkpi "cpf "f qh'kpi "r tqegf wtgu'hqt"RRG'gpugo drgu'y qtp" kp"G\ u'f wtkpi "uksg"qt'kpvkvqp0"

5.8 PPE Inspection Procedures

Gcej "r gtuqpy"j q'ku'tgs wktgf "v"y gct"RRG'y kn'lpur gev'y gk'tgs wkr o gpv'r tkqt "vq."f wtkpi ".cpf "chgt"gcej "wug0" F ghgkvxg"qt"fc ci gf "gs wkr o gpv'y kn'lpqv'dg"wugf 0"J gcxkn{ "eqpwo kpcvfg "RRG'y cv'ecppqv'dg"cf gs wcvgn{ "engcpgf "y kn'dg"t kuctf gf 0"Uqgtgf "RRG'y kn'dg'lpur gev'f "gxgt { "o qpvy "v"gpwtg'y cvkv'j cu'p'qv'dggp"fc ci gf "cpf "ku'wkvcdrg'hqt"wug0"Y qtngtu'y j q'y gct"RRG'lp'y g'hkrf "y kn'vcng'p'qvg'qh'y g'eqpf kkv'qh'y g'RRG'y qtp" d{ "y gk't"eq/y qtngtu"cpf "lphqto "y go "qh"cp { "cr r ctg'p'v'r tqdrgo u."uwej "cu"o kuukpi "gs wkr o gpv."vgctu"kp" r tqvkvxg'em'y kpi ".gzeuukxg"eqpwo kpcvqp."lo r tqr gt "wug'qh"RRG. 'kpcf gs wcvg"RRG. 'gve0"

5.9 Evaluation of Effectiveness of PPE Program

Vj g'UUJ Q'y kn'lpur gev'y g'lqdukg"gcej "f c { "cpf "cu"tgs wgpv'v' "cu"p'geguuct { "v"gpwtg'y cv'RRG"j cu'dggp" r tqr gtn{ "bgrevgf "cpf "ku'dgkpi "wugf "cu"t guki pgf 0"Vj g'UUJ Q'y kn'cnq'lpur gev'RRG'wqtgf "hqt"go gti gpe { "wug" gxgt { "o qpvy 0"Uko kn't "RRG'lpur gev'kp'u"y kn'dg"eqpf wv'gf "d { "GEE'au"UJ O "f wtkpi "uej gf wrgf "xkuku"qh'y g" r tq'ge'v'uks0"

6.0 MEDICAL SURVEILLANCE

Go r m{ ggu"qp"y ku'r tq'ge'v'y j qug'y qtn'lp'xq'xgu'r qv'p'v'kn'g'zr quwtg'v'uks'eqpwo kpcv'u'y kn'dg'kpenw'gf "kp" yj g'o gf kcn'lw'xg'kn'cpeg'r tqi tco 0"

Rgtuqppgn'y kn'j cxg"e"ewtgpv'o gf kcn'gzco "engctcpeg"*r j { ulekp'au'y tkv'p'qr kpkqp+"kp"ceeqtf cpeg'y kj " Qeewr cvkpcn'Uchgv{ "cpf "J gcnj "Cf o kpkwtcvkq"QUJ C+"ucpf ctf u'r tkqt "v"gpv'gt'kpi "tgi wcv'gf "y qtn'ict'geu" kp"ceeqtf cpeg'y kj "4; 'Eqf g'qh'Hgf gtcn'T gi wcv'kpu"*EHT +3; 320420"GEE'wugu'y g'ugt'xlegu'qh'Y qtn'Ectg." y j qug'Rt'kpek cn'ku'F t0R'gvt "I tgcpg { .c"Dqctf /Egt'v'hgf "Qeewr cvkpcn'Rj { ulekp"v"tgxkgy "cm'gzco u"cpf " r tqxkf g'y g'engctcpegu."y j lej "kpenw'g'cp'cuuguo gpv'qh'go r m { gg'cdk'kv{ "v"y gct'tgur kcvqt { "r tqvkvqp"cpf " RRG"uchgn 0"Eqo r r'v'g"t'guw'u"qh"geej "kpf k'kf wcv'u"o gf kcn'gzco kpcv'qp"t'guw'u"ctg"o kpcv'kpgf "d { "y g" o gf kcn'r tqxkf gt "cpf "y kn'lp'qv'v'q'dg'hgr v'qp/ukg0"Vj g'UUJ Q'y kn'gpwtg'er r tqr tkcv'lw'deqpvt'cv'qt'au"o gf kcn' uetggp'kpi u'ctg"eqo r r'v'gf ."f qewo gpv'gf ."cpf "y g'r j { ulekp'au'y tkv'p'qr kpkqp'u'ctg'cx'k'cdrg'cv'y g'y qtn'iw'kg0"

7.0 EXPOSURE MONITORING AND AIR SAMPLING

Dcu'gf " qp" j kn'qt'kcn' uco r r'kpi "cpcn{uku" f cv" *ny /r'xgn' eqpegp'v'cv'kpu" qh' xq'rc'v'kg" qti cple" eqo r qwpf u"]XQE u.+; gr'xcv'gf "r'xgn'qh'XQE u'kp"y g'dtgc'y kpi " | qpg'ctg'p'qv'cp'v'ekr cv'gf ."ck"o qpkqt'kpi "ku'p'qv'tgs wktgf " f wtkpi "kpv'wukxg"cev'x'k'kgu="j qy gxgt."ck"o qpkqt'kpi "y kn'dg"r gthqto gf "kp"y g'i gp'gcn'y qtn'ict'ge"cpf "y g" dtgc'y kpi " | qpg"r tkqt "v"u'ct'v'kpi "kpv'wukxg"cev'x'k'kgu"v" gu'cd'rkuj "dcem' tqwpf "eqpegp'v'cv'kpu"0"Rgtuqppgn' r gthqto kpi "v'gukpi "cpf "o qpkqt'kpi "y kn'dg" v'ck'p'gf "kp"v'gukpi "cpf "o qpkqt'kpi "r tqegf wtgu"cpf "j c| ctf u"0" O qpkqt'kpi "gs wkr o gpv'y kn'dg"wugf ."lpur gev'f ."o kpcv'kpgf ."cpf "r tqr gtn{ "ec'kd'cv'gf "kp"ceeqtf cpeg'y kj "y g" o cpwhcewtgu'kpwtvkvqp"cpf "ucpf ctf "kpf wut'kcn'j { i k'pg'r tce'v'kg0"

Table A16-4"dgn'y "r'ku'u'y g'o qpkqt'kpi "tgs wktgo gpw'cpf "t'gur qpug'cev'kpu'hqt"y ku'r tq'ge'v'0"Cm'f k'ge'v'cpf " k'v'gi tcv'gf "ck"o qpkqt'kpi "gs wkr o gpv'y kn'dg"r tqr gtn{ "ec'kd'cv'gf "d'gh'qt'g"cpf "chgt"gcej "r g'k'qf "qh" wug"kp" ceeqtf cpeg'y kj "y g'o cpwhcewtgu'kpwtvkvqp"cpf "ucpf ctf "kpf wut'kcn'j { i k'pg'r tce'v'kg0"

**Attachment 16
SITE SAFETY AND HEALTH PLAN (HTRW)**

Table A16-4. Exposure Monitoring

| <i>Real Time (air, noise, heat, radiation, light)</i> | | | |
|---|--|---|---|
| Instrument / Contaminant | Frequency | Action Levels | Actions/Upgrade and Rationale |
| O wnkTCGRnu'qt" gs wxcrgpvTXQEu" | F wtkpi "cp{ 'kpv wukxg" cevkxkkgu" | Y qtniCtgc<Uwucpgrf " tgcf kpi "qh7'r r o "kp" vj g'dtgcvj kpi 'l qpg0" | Uqr "cevkxkkgu."uwur gpf "y qtni" cevkxkkgu'ht'37"vq'52'o kpwgu=kh" tgcf kpi u'ctg'uwucpgrf "vj gp'eqpvcev" UJ O *c-0 |
| QUI CIPQU " " J GCV'kpf gz "Crr " - "Dqf { "Vgo r "T" J gctvTcvg" O qpkqt kpi " | F ckn{ "f wtkpi "y qtni kpi" j qv'eqpf kkpqu"*@: 7A" Ngxgrif. "@92A"y j gp" ko r gtxkqu'eqxgtcnu" y qtp+ " | Xctkdrf "f gr gpf kpi "qp" vj g'kpf kxkf wcn'cpf " y qtnicevkxk{ " | Hqmvy "Rtgecwkpqu'tgeqo o gpf gf "d { " yj g"J GCV'kpf gz "crr 0" Ko r ngo gpv'r j { ukqni kecn'o qpkqt kpi " y j gp"J gcv'kpf gz "kpf kecvu"O qf gtcvg" Tkunihq "go r m { ggu'kpf r tqvexkg" enqj kpi "y qtni kpi "kpv'wvki j v="cpf "hqt" qyj gt'y qtngtu'y j gp"J gcv'kpf gz " kpf kecvu"J ki j "Tkun="cpf "hqt"cp { " y qtngtu'kpf kecvu "uki pu'cpf " u{ o r vqo u'qh'j gcv'wt guu0 |

Notes:

*c+ Eqpvcev'y kj "y g"UJ O "o wuvdg'o cf g'r tkt "v'eqpvwpcpeg'qh'y qtn0"Vj g"UJ O "o c { "vj gp'kpkcvg'r gto gvt lkpvi tcvf "ck"
uco r kpi "cni y kj "cf f kkpnc'gpi kpggtkpi "eqpvqnu0

AH6"fi gi tggu"Hzj tgpj gk"

@6"i tgcvt "y cp"

RK "6"Rj qvqkpk cvkp "f gvgevt"

rro "6"r ctu'r gt "o kkpq"

PQU "6"p cvkpnc'kpvkwwg'ht "Qeew cvkpnc'Uchgv { "cpf "J gcv "

QU C "6"Qeew cvkpnc'Uchgv { "cpf "J gcnj "Cf o kpkutcvkp"

XQE "6"Xqrvkq'qti cple'eqo r qwpf u"

"

Tgeqtf u"y kn'kpenf g"vj g" f cvg. "vko g. "uuducpegu"qt "j c| ctf u"o qpkqtgf. "r gtuqp" eqpf wv kpi "o qpkqt kpi. "
ecrkdtkvqp "f cvg"cpf "o gvj qf. "qr gtcvqpu"cpf "mqecvq"qh'o qpkqt kpi. "cpf "t guwuu0" Tgeqtf u"ctg "cxckrdng"vq"
go r m { ggu. "vj gk"tgr tguvpcvkgu. "cpf "vq"vj g"Cto { 0

"

8.0 HEAT STRESS/COLD STRESS

Ugg"Cwcej o gpw'34C"cpf "34D"kp"vj g"CRR0

"

9.0 STANDARD OPERATING PROCEDURES

Vj g'hqmvy kpi "r tqegf wgu'y kn'dg"go r m { gf "qp"vj ku'r tqlgv'y j gtg"cr r tqr tkvg0

"

9.1 Site Rules/Prohibitions

Vj g'hqmvy kpi "ukg"t wgu"ctg"cr r rkecdng"vq"cm'GEE"r tqlgew<

- Gcv."f tkpm'wug'i wo "qt"vqdceeq"r tqf wew."qt"cr r n { "equo gvku'kpf" f guki pcvf "ctgcu'qpn { 0
- F q'p'q'uo qng'y kj kp "ukg"ctgcu'qt "pgct"hr o o cdrng"qt "eqo dwukdng"o cvgtkcu="ctgcu'uj cm'dg"o ctngf "
y j gtg"uo qnkpi "ku'r gto kvgf 0
- Wug"vj g'dwf f { "u{ uvg o "y j gp"y qtnkpi "kp"GA 0Mpqy "y j q { qwt"dwf f { "ku."eqo o wplecvg'tgi wcn { "y kj "
gcej "qyj gt. "cpf "dg"cnrtv'vq'uki pu'qh'f knt guu'kpf { qwt"dwf f { 0
- Y cuj "j cpf u."hceg. "cpf "cp { "gvr qugf "unkp" f wtkpi "f geqpvco kpcvqp. "dghqtg"gc vki. "f tkpnkpi "qt" wukpi "
vqdceeq"r tqf wew. "cpf "cv'vj g"gpf "qh'gcej "uj kn0
- Rct vkr cvg'kpf "F ckn { "Uchgv { "Vcki cvg"O ggvkpi u0
- Eqpvkpcmf "qdugtxg"y qtni'qecvqp"cpf "dg"cnrtv'vq"ej cpi gu'vj cv'o c { "chgevu'chgv { 0

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- Cxqkf "f kt gev'eqpcev'y kj "eqpvcu kpcvkqp"d { "pqv'r wtr qughwn' 'y cmkpi . "vqwej kpi . "qt "eqpvcvkpi "cp { " qdxkqwn' "eqpvcu kpcv'g'lwthcegu0"
- Kō o gf kcvgn' 'tgr qt v'cp { "o kuj cr u. 'kpenf kpi 'pgct' o kuugu. "qt "wpwuvcn'ukwcvkqpu'vq "UUU Q0"
- Wug'RRG'r tqxkf gf "cpf "cu'kput wcv'g' d { "y' g'UUU Q0"
- Cxqkf "j cpf /vq/ o qwj "qt' j' cpf /vq/ hceg'cev'kxkku0"
- Vgukpi "cpf' o qpkqt kpi 'kput wo gpv. 'uchgv' 'gs wkr o gpv. 'tki i kpi . 'j' cpf "cpf' r qy gt' 'vqqu. 'xgi kengu'cpf' o qdkg'eqpvt wcv'g'gs wkr o gpv'uj cm'dg'kpur gev'g' r tkqt'vq'wug0"
- O kpo k' g'v'j' g'pwo dgt' qh'r' gtuqppgn'k'c' y' qtm'ctgc'vq' t'gf' wv'g' r' qv'g'v'cn'g'zr' quwt'gu0"
- Y qtm'y kj k'p' r' j' { ulecn'cpf' "o gpv'cn'iko ku0"
- Vcng'cf'gs wcv'g' t'guv' dt'gcmu'cpf' "tgr' n'ceg' d'qf { "h'w'k'f' u' *y' cvgt' "cpf' "g'ng'ev' qn' v'g' +eqp'v'k'p'v'q'w'wn' (0"
- C'v'cm'v'ko' gu' h'q'm'y' "y' g' k'p'ut' w'v'k'p'u' q'h'v'j' g'UUU Q'qt' f' g'uki' p'gg0"
- F'q'p'q'v'f' g'x'k'v'g' h'q'o' "y' g' CRR'qt' "y' g' k'p'ut' w'v'k'p' q'h'v'j' g'UUU Q0"
- Cxqkf' t'wuj' kpi' "cpf' l'qt' "v'cn'kpi' "uj' q't'v'ewu0"
- J' cpf' ng' "cpf' " f' kur' qug' "cm' y' cuvg' " i' gp'gt'cv'g'f' " h'q'o' " f' g'eqpvcu kpcvkqp' r' tq'eg'f' w'g'u' r' g't' " eqp'v'cev' t'gs' w'k'go' gpv'0"
- Eqpf' w'v'x'k'w'cn'ej' gemu'qp' o' cej' k'p'gt' { "cpf' "gs' w'kr' o' gpv' r' tkqt' "vq' w'ug. "cpf' "eqo' r' ng'v'g' y' g' f' c'kn' k'p'ur' gev'k'p' h'q'o' 0"
- V'cng' r' t'g'ec'w'k'q'p'u'v'q' r' t'g'x'g'p'v'ur' k'nci' g'cpf' "ur' n'uj' kpi' =eqp'v'k'p' ur' k'ng'f' "h's' w'k'f' "h'i' r' qu'k'd'ng'0"
- C'ng't'v' { q'w' "ug'p'ug'u'v'q' r' q'v'g'p'v'cm' { "f' c'pi' g't'q'w'u' ukw'cv'k'p'u' *g'0' u'nt'q'pi . "k't'k'cv'k'pi . "qt' "p'c'w'ug'cv'k'pi' "q'f' q't'u'0"
- H'co' k'k'ct'k' g' { "q'w't'ug'h'y' kj' "y' g' r' j' { ulecn'ej' ct'cev'g't'k'w'eu' q'h'v'j' g' uk'gu0"
- F' kur' qug' q'h'cm'y' cuvg'u' i' gp'gt'cv'g'f' "f' w'k'pi' "cev'k'k'k'g'u' cu' f' kt' gev'g'f' "d { "y' g' U'w' r' g' t'x'k'lu'q't' . "UUU Q'qt' f' g'uki' p'gg0"

Eqphqto cpeg'y kj 'y' g'ug'ukg't'w'gu'ku' o' cpf' cv'qt' { "h'qt' "eqp'v'k'p'w'g'f' r' t'q'l'g'ev' r' ct'v'ek'r' cv'k'p'0"

9.2 Work Permit Requirements

Excavation/Digging Permit - Y j' g't'g' t'gs' w'k'g'f' . "GEE" y' k'n' q'd'v'k'p' "c" f' k' i' "r' g'to' k'v' h'q'o' "y' g' c'w'j' q't'k'v' "j' c'x'k'pi' " l'w't'k'f' k'ev'k'p'0" V'j' g' f' k' i' "r' g'to' k'v' y' k'n' d'g' w' r' f' c'v'g'f' "r' t'k'qt' "vq' g'z'r' k'c'v'k'p'0" Y' q't'm'y' k'n' u'c' { "y' k'j' k'p' "y' g' r' ct'co' g'v'tu' q'p' " y' g' r' g'to' k'0' k'i' g'z'ec'x'c'v'k'p' "ku' g'z'v'g'p'f' g'f' "k'p' v'g'to' u' q'h' ct'gc' q't' "v'ko' g' . "c' p'gy' l'g'x'k'ug'f' "r' g'to' k'v' y' k'n' d'g' q'd'v'k'p'g'f' 0"

Control of Hazardous Energy Permits - Y j' g't'g' "gs' w'kr' o' gpv' q't' "u' { u'ngo' u' b' w'w' d'g' f' g' /gp'gt'i' k' g'f' "vq' u'ch'gn' "y' q't'm' q'p' "y' go . "cpf' "c' "ur' g'ek'k'e' "y' t'k'w'g'p' r' tq'eg'f' w'g'f' "f' q'gu' p'q'v' g'z' k'v' h'q't' "y' g' "gs' w'kr' o' gpv . "c' "N'q'en'q'w'v'c'i' q'w'r' g'to' k'v' y' k'n' d'g' "eqo' r' ng'v'g'f' "k'p' "c'ee'q't'f' c'peg' y' k'j' "GEE" "UQR" "GUS" "960"

9.3 Material Handling Procedures

Eqpvcu kpcv'g'f' "i' t'q'w'p'f' y' cv'gt' "cpf' "u'q'k'n' h'q'o' "uco' r' n'k'pi' "cev'k'k'k'g'u' y' k'n' d'g' "eqp'v'k'p'g'f' . "r' d'g'ng'f' "cpf' "f' kur' qug'f' "q'h' r' t'q'r' g'tn' { "k'p' "c'ee'q't'f' c'peg' y' k'j' "cr' r' t'q'r' t'k'v'g' 'ej' ct'cev'g't'k' cv'k'p'0"

9.4 Drum/Container/Tank Handling Procedures

K'p'x'g'w'k'i' cv'k'p' "F' g't'k'x'g'f' "Y' cu'v'g' *K' Y' + "i' gp'gt'cv'g'f' "f' w'k'pi' "y' g' "h'k'ng'f' "cev'k'k'k'g'u' y' k'n' "eq'p'uk'v' q'h' "u'q'k'n' "ug'f' ko' gpv . " u'w't' h'ceg' y' cv'gt' . "cpf' "i' t'q'w'p'f' y' cv'gt' 0" H'k'ng'f' "uco' r' n'k'pi' "v'g'co' "y' k'n' g'p'u'w'g' "y' c'v'v'j' g' "eq'p'v'k'p'g'tu' ct'g' "r' d'g'ng'f' . "j' cpf' ng'f' . " u'q't'g'f' . "cpf' "ug'ew'g'f' "k'p' "c'ee'q't'f' c'peg' y' k'j' "cr' r' n'ec'd'ng' t'g'i' w'v'k'q'p'u'0" K' Y' "y' k'n' d'g' "ej' ct'cev'g't'k' g'f' "cpf' "f' kur' qug'f' "q'h' c'v'v'j' g' r' t'q'r' g't' "h'ce'k'k'v' { 0"

Attachment 16
SITE SAFETY AND HEALTH PLAN (HTRW)

10.0 CONTAMINATION CONTROL, SANITATION AND WASTE MANAGEMENT

Vj g'hmny kpi 'ugevqpu'f guetkdg'vj g'eqpco kpcvqp'eqpvtqrf wtkpi 'vj g'hgrf 'cevxkkgu0"

10.1 Work Zones

Ceegu" vq" vj g' ukgu" ctg" nlo ksf" vq" cwj qtk gf" r tqlgev" r gtuqppgn" cr r tqxgf" uwdeqpvcevtu" cpf" vj gkt" go r mq { ggu. cpf "hqcniUcvgIHgf gtcn'ci gpe { 'uclh'gueqtvf "d { 'ukg'r gtuqppgn0"

Hqt'vj g'r wtr qugu'qh'Y qtm\ qpg'F grkpgcvqp. 'vj g'ukg'r gtko gvtu'y knlgpeqo r cuu'cp'ctgc'urki j vq' hcti gt'vj cp" vj g't qtvqp'qh'vj g'ukg'kf gpvkhgf 'hqt'cevxkkgu0'Vj g't gtko gvt'qh'vj g'ukgu'y knldg'r tqr gtn' f grkpgcvf "ecwvqp" vcr g'qt"j ki j "xkukdkk\ 'hpekp"i 0"

10.1.1 Support Zone

Vj g'Uwr r qtv\ qpg"*U\ +ku'hqecvqf "qwukf g'vj g'Eqpco kpcvqp'Tgf wevqp"\ qpg"*ET\ +cpf"y kj kp"vj g'ukg" r gtko gvt0"Vj g'Uwr r qtv\ qpg'ku'cp"weqpvco kpcvqf "*"ergp+"ctgc"y j g'g'r gtuqppgn'y kn'pav'dg"gzr qugf "vq" j cl ctf qwu'bo cvgtkcu'qt'eqpco kpcvq0"

10.1.2 Contamination Reduction Zone

Vj g'ET\ 'ku'hqecvqf 'kp'dgy ggp'cpf'ugt xgu'cu'c'dwhgt'dgy ggp'vj g'U\ "cpf'vj g'G\ 0"Vj g'ET\ 'ku'kpvgpf gf "vq" r t gxp'vj g'ur tgc'f'qh'eqpco kpcvqp'cpf'ku'wkk gf 'hqt'dqv'j r gtuqppgn'cpf'gs wkr o gpv'f geqpvco kpcvqp0"

10.1.3 Exclusion Zone

Vj g'G\ 'ku'vj g'y qtm'ctgc"y j g'g. "dcugf"qp"r rppgf "cevxkkgu."vj g'g'ku'r qvq'vkn'hqt"y qtngt "gzr quwt'g'vq'ukg" eqpco kpcvq0"Vj g'G\ "ku'dqwpf gf "d { "vj g'ET\ "cpf"ceeguqf "qpn' "vj tqwi j "vj g'Eqpco kpcvqp'Tgf wevqp" Eqttkf qt "ETE+0"Vj g'G\ 'r gtko gvt'y knldg'f grkpgcvf 'y kj "ecwvqp"vcr g'qt"j ki j "xkukdkk\ 'hpekp"i 0"

10.2 Access Controls

Vj g'UUU Q"cpf "Ukg"Uwr g'kpvgpf gpv'y kn'gucdrku j "vj g'r j { ulecn'dqwpf ctkgu'qh'gcej" | qpg'cpf "kpuwv'cni" y qtngtu'cpf "xkukqtu'qp"vj g'rko ku'qh'vj g'tgultevqf "ctgcu0'P q'qpg'y knldg'cmqy gf "vq'gpvgt'vj g'tgultevqf "ctgc" y kj qw'vj g'tgs wktgf "RRG'hqt"vj cv'ctgc0"Vj g'Ukg'Uwr g'kpvgpf gpv'y kn'gputg'eqo r rncpeg'y kj "cni'tgultevqf" ctgc'gpw { "cpf"gzk'r tqegf vtgu0"Vj g'Ukg'Uwr g'kpvgpf gpv'y kn'cnuq'f guki pcvg"cf geqpvco kpcvqp'r qkpv'hqt" r gtuqppgn'vq'gzk'vj g'eqpco kpcvqf "ctgc'cpf"vq'gpvgt'vj g'ergp'ctgc."y j lej 'ku'y j g'g'r gtuqppgn'o c { "gc'v'cpf" tgu0"

Cm'ukg'r gtuqppgn'cpf lqt'xkukqtu'gpvgtkpi "cpf"gzk'kpi "vj g'G\ "qt'vj g'ET\ 'y knldg'tgs wktgf "vq'hqi /kp'hqi /qww" h'qo "vj g'ukg'qp"cf ckn' "dcuku0"Vj g'hqi "y knldg"o c'kpcvqpf "cv'vj g'gpvtcpeg0"

10.3 Hazard Briefing

P q'r gtuqp'y knldg'cmqy gf "qp"vj g'ukg'f wtkpi "ukg'qr g'cvqpu'y kj qwh'ku'r ctv'ekr cvkpi "kp'c"j c' ctf "dtlghkpi 0" Kp'i gpgtcn"vj g'dtlghkpi "y kn'eqpukv'qh'c'tgxkgy "qh'vj g'UUU R"cpf "vj g'v'ckri cvg'uchgv"o ggv'kpi 0"Cm'r gtuqpu" qp"vj g'ukg. "kpen'f kpi "xkukqtu."o wu'uki p"vj g'UUU R"Cempqy rgi o gpv'Uj ggv'cpf "Vckri cvg'Uchgv"O ggv'kpi " Hqto 0"Vckri cvg'uchgv"o ggv'kpi u'y knldg'j g'f ckn' "dghqtg'ukg"cevxkkgu'dgi kp0"

10.4 Visitor Access

Vj g'hmny kpi 'ugevqpu'f guetkdg'u'j qy "vq"j cpf ng'xkukqtu'vq'vj g'ukg0"

10.4.1 Approach

Ki'wpcppqwpegf "xkukqtu"cttkkg"cv"u'ksg."GEE"go r m{ ggu'uj qwf "cr r tqcej "y go .kptqf weg"y go ugrkgu."cpf" tgr gevhwf "cun'ij g"xkukqtu"v'kf gpvhf "y go ugrkgu"cpf "ucv'ij gk "dwukpguu0"Cp"ghqtv'uj qwf "dg"o cf g"v' f kuki wki "dgy ggp"GEE"y qtngtu"cpf "uwdeqpv'cevqtu"cpf "r gqr ng"ht"y j qo "GEE"ku"pqv'tgur qpukdg"ht" gphqteki "j genj "cpf "uchgv "t wgu"qp"lq"u'ksgu."uwej "cu'erkgpv'tgr tgugpv'v'ksgu."ci gpe{ "tgr tgugpv'v'ksgu."cpf " qvj gt"xkukqtu"cwj qtk gf "d{ "y g'erkgpv"0"Hqt"gzco r ng."j ctf j cvu"cpf "uchgv "i nuugu"o c{ "dg"tgs wkt go gpv'kp" yj g"U "qt"cp{y j gtg"qp"y j g"ukg"ht"y qtngtu."dw"v'gphqteq"y ku"tgs wkt go gpv'qp"cm'xkukqtu"o c{ "pqv'dg" pgeguact {0"C'tgur gevhwfzr rcpv'kqp"qh'y j cv'ctgcu"v'cxqkf"o c{ "dg"cm'ij cv'ku'pgeguact {0 "

10.4.2 Unauthorized Visitors

Ki'xkukqtu"ctg"wp'cwj qtk gf ."GEE"go r m{ ggu'uj qwf "gzt rkp"v'ij g"xkukqtu"ij cv'gpvt { "v'ij g'ukg"ku'tgut'evgf " dgecwug"ij g'ukg"eqpv'kpu"j c| ctf u0"Vj g'ukg"dqwpf ctkgu"cpf "cp{ "qvj gt'tgrgcpv'tgut'evkpu"uj qwf "dg'r'qkv'gf " qwv'ij g"xkukqtu0 "

10.4.3 Visitors Authorized to View the Site from the SZ

Ki'xkukqtu"ctg"cwj qtk gf "d{ "y g'erkgpv"v'ugg"ij g'ukg"htqo "y j g"U . "GEE"go r m{ ggu'uj qwf "f q"ij g'hqmy kpi < "

- Tgxky "y g'v'ckv'cv'uchgv "o g'v'ki "htqo "y kji "y go "cpf "cun'ij go "v'uki p'k"=
- Rtqkf g'ij g"xkukqtu"y kji "j ctf j cvu."uchgv "i nuugu."cpf "uchgv "xguu."kh'er r'neddg="cpf ."
- Rtqj kdk'gpvt { "v'ij g'G\ 0 "

10.4.4 Visitors Authorized to Enter the EZ During Ongoing Work Activities

Ki'ij g"xkukqtu"ctg"cwj qtk gf "d{ "y g'erkgpv"v'gpvt"ij g'G\ . "GEE"go r m{ ggu'uj qwf "f q"ij g'hqmy kpi < "

- Xgtkh{ "ij cv"ij g{ "j cxg" ewtgpv" J c| ctf qwu" Y cuvg" Qr gtcv'kpu" cpf " Go gti gpe{ " Tgur qpug" *J C\ Y QRGY +\tcl'kpi ="
- Xgtkh{ "ij cv'ij g{ "j cf "c"ewtgpv'r j { ulecn'gzco "cwj qtk kpi "y qtn'iq"j c| ctf qwu"y cuvg'ukgu="
- Tgxky "ij g" UUJ R" cpf "ij g" v'ckv'cv'uchgv "o g'v'ki "htqo " cpf " j cxg"ij g" xkukqtu"uki p"ij g" cempqy ngf i go gpv'htqo u'qh'cmf qewo gpv="
- Rtqkf g'ij g'RRG'tgs wkt gf "ht"ij g'ukg="cpf ."
- Gueqv'ij g"xkukqt"y j k'g'kp"ij g'G\ 0 "

10.4.5 Refusal

Ki'xkukqtu'tghwg"v'eqo r n{ "y kji "cp{ "qpg"qh'ij g'tgs wkt go gpv'hwgf "kp"ij g'r'tgxkqwu'ugev'kpu."cpf "ij g"client authorizes ij g"xkukqt"v'gpvt"ij g'G\ "cp{y c{ ."GEE"y km'shut down cp{ "r'qv'v'cmf "j c| ctf qwu"gs wkt o gpv" cpf "cng"cm'r' tceveddg"u'gr u"v'g'gko kpcv'qvj gt"j c| ctf u"cpf "gzt quwtgu0"Vj g'gxgpv'y km'dg"ij qtwi j n{ " f qewo gpv'gf 0 "

Xkukqtu"ij q'tghwg"v'eqo r n{ "cpf "ctg"pqv'cwj qtk gf "d{ "y g'erkgpv"uj qwf "dg"cuvgf "v'rgcxg0"Eqpvcv'ij g" mecn'r qileg'ki'r tqdigo u'qewt"y kji "xkukqtu"ij q'tghwg"v'rgcxg0 "

10.5 Emergency Entry and Exit

Rgqr ng"y j q'y km'gpvt"ij g'ukg"qp"cp"go gti gpe{ "dcuku"y km'dg"dt'kg'gf "d{ "ij g'Uksg"Uwr gtl'kv'p'gpvt'gi ctf kpi " ij g'j c| ctf u0"Cm'ij c| ctf qwu'cev'x'kkgu"y km'egcug'kp"ij g'gxgpv'qh'cp"go gti gpe{0"Cwcej o gpv'3."oGo gti gpe{ " Cev'kpp"Rrp.o'r tqxkf gu'o qtg'kphqto cv'kqp"ht"go gti gpe{ "r tqegf wtu0 "

Attachment 16
SITE SAFETY AND HEALTH PLAN (HTRW)

10.6 Personal Hygiene and Decontamination Procedures

The importance of good hygiene practices will be emphasized with all site workers. Upon exiting the EZ and CRZ, workers and/or site visitors will enter the CRZ and carefully remove all designated PPE, wash their hands, face, and forearms prior to eating, drinking or smoking. Smoking, eating and drinking will only be allowed in clean work areas (i.e. SZ).

10.7 Equipment Decontamination Procedures

Heavy equipment will be decontaminated using dry methods, a pressure washer, and/or equivalent. Hand tools and smaller equipment will be decontaminated using a non-phosphate detergent scrub, followed by fresh water and distilled or deionized water rinses. Prior to removal from site, decontaminated equipment and material will be inspected and accepted by the SSHO and the Site Superintendent.

11.0 EMERGENCY PLANNING

See the Emergency Action Plan, Attachment 1 to the APP.

12.0 PRE-ENTRY BRIEFING

As discussed in Section 6 of the APP and above, all personnel entering the site will be provided with site-orientation training, and must be present at the daily tailgate meeting.

13.0 EFFECTIVENESS OF PLAN

The effectiveness of this SSHP will be determined by the inspections listed in Section 7 of the APP, as well as from incident investigations and input by site personnel including reports of hazards, safety observations, and suggestions for improvement

**Response to ADEM comments
on the
Draft Corrective Measures Implementation Plan, Revision 0
RSA-306, Steam Heating Plant, Building 7291
Operable Unit 24
Submitted October 17, 2022**

ADEM, Ashley Mastin

1. General Comment, Sampling Frequency and Frequency Reduction

According to the CMI Work Plan, the monitored natural attenuation and long-term monitoring schedule suggests following baseline sampling, analytical results will be collected from the nine monitoring wells quarterly (year 1), semiannually (years 2 and 3), and annually (years 4-10). Years 11-30 will be monitored annually with a reduced monitoring network of 6 wells. The proposed light non-aqueous phase liquid (LNAPL) recovery schedule would occur quarterly (year 1), semiannually (years 2 and 3), and annually (years 4 – 10). The Department agrees that LNAPL recovery and monitoring should occur on a quarterly basis upon initial implementation of corrective measures. However, reducing the frequency of LNAPL recovery and monitoring should be results-based as opposed to following a set schedule. Data trends should demonstrate the need for less frequent product recovery and/or monitoring. This also applies to changes to the monitoring well network. An individual monitoring well should only be removed from the network when contaminants of concern have not exceeded groundwater protection standards for three consecutive years. The Army may propose to alter the sampling schedule and monitoring well network at any time; however, changes to the sampling frequency and/or monitoring parameters would require Department approval prior to implementation. Please evaluate the proposed schedule changes

Response:

Concur, references to sampling frequency and LNAPL recovery frequency have been revised to quarterly throughout the document. The ADEM permit modification process has been cited and text has been revised to state that sampling frequency will not be reduced without a permit modification and evidence to do so (e.g., cleanup goal attainment, Mann-Kendall, trend charts, etc.).

The following sections have been updated:

- **CMIP**
 - **Executive Summary, pg. ES-2**
 - **3.3.2 Selection of Corrective Measures for RSA-306, pgs. 3-5, 3-6**
 - **4.2.5 Monitoring to Evaluate Monitored Natural Attenuation, pgs. 4-4, 4-5**
 - **5.1 Monitored Natural Attenuation Contingences, pg. 5-1**
- **Appendix F – Redstone Arsenal RCRA Permit Modification Request**
 - **Section 11.0 Selected Corrective Measure, pgs. F-13, F-14**
- **Appendix G – Corrective Measures Implementation Schedule**

- **Line 1121, CLIN 0021AB through end of schedule**
- **CLINs 0021AB, 0021AC, 0021AD, 0021AE have been updated to include four quarterly sampling events per year**
- **Appendix I – Groundwater Monitoring Plan**
 - **3.5 Light Non-Aqueous Phase Liquid, pg. 3-3**
 - **3.6 Constituent List and Sampling Frequency, pg. 3-4**
 - **4.1 Data Evaluation and Interpretation, pg. 4-1**
 - **Table I-4 Worksheet #18 Sample Locations, Analytical, and SOPP Requirements, pgs. I-5 to I-11**

Prepared by ECC, 21 April 2023