

Wpkvgf"Pcvkqpu"Jgcfswctvgtu."47"Ugrvgodgt"422:

"

 $30" \qquad Gtc\,fkecvkp\,i\,"gzvtg\,o\,g"\,r\,qxgtv\,\{\,"eqpvkpwgu"vq"\,dg"\,$

 $\begin{array}{l} ecp"cej\,kgxg"vj\,g"\,O\,knngpp\,kw\,o\,"\,Fg\,xgnq\,r\,o\,gpv"\,\,I\,\,qcnu0"\,Kv"\,ku"\,\,o\,\,\{\,^{\rm l}\,hkt\,o\,^{\rm l}\,j\,qr\,g\,^{\rm l}\,vj\,c\,^{\rm l}\,y\,g\,^{\rm l}\,y\,knn'\,dg\,^{\rm l}\,c\,dng"\,vq\,^{\rm l}\,nqq\,m\,^{\rm l}\,dcem\,^{\rm l}\,qp\,^{\rm l}\,vj\,ku\,^{\rm l}\,fc\,\{\,^{\rm l}\,c\,u\,^{\rm l}\,vj\,g\,^{\rm l}\,o\,q\,o\,gpv\,^{\rm l}\,y\,j\,g\,^{\rm l}\,vj\,g\,^{\rm l}\,y\,qtn\,f\,^{\rm l}\,i\,qv\,^{\rm l}\,dcem\,^{\rm l}\,qp\,^{\rm l}\,vtcem\,^{\rm l}\,vq\,^{\rm l}\,tgcej\,kp\,i\,^{\rm l}\,vj\,g\,^{\rm l}\,I\,\,qcnu0\,^{\rm l}\,V\,j\,g\,^{\rm l}\,G\,xgpv\,^{\rm l}\,y\,knn\,^{\rm l}\,ugp\,f\,^{\rm l}\,c\,^{\rm l}\,uvtqp\,i\,^{\rm l}\,o\,guu\,c\,i\,g\,.\,^{\rm l}\,htq\,o\,^{\rm l}\,vj\,g\,^{\rm l}\,j\,guv\,^{\rm l}\,rqnkvkecn\,^{\rm l}\,ng\,xgn\,^{\rm l}\,c\,g\,gcf\,^{\rm l}\,qh\,^{\rm l}\,vj\,g\,^{\rm l}\,Hqnnq\,y/w\,r\,^{\rm l}\,Kpvgtpcvkqpcn\,^{\rm l}\,Eqphgtgpeg\,^{\rm l}\,qp\,^{\rm l}\,Hkpcpekp\,i\,^{\rm l}\,hqt\,^{\rm l}\,Fg\,xgnq\,^{\rm l}\,o\,gpv\,^{\rm l}\,vq\,^{\rm l}\,dg\,^{\rm l}\,j\,gn\,^{\rm l}\,kp\,^{\rm l}\,Fq\,j\,c\,^{\rm l}\,htq\,^{\rm l}\,4\,;\,^{\rm l}\,Pq\,xg\,o\,dgt\,^{\rm l}\,vq\,^{\rm l}\,4\,^{\rm l}\,Fg\,eg\,o\,dgt\,^{\rm l}\,422\,:\,.\,^{\rm l}\,vj\,c\,^{\rm l}\,I\,\,qxgtp\,o\,gpv\,^{\rm l}\,c\,g\,^{\rm l}\,f\,^{\rm l}\,g\,xgn\,^{\rm l}\,vq\,^{\rm l}\,uvtgp\,i\,vj\,gp\,^{\rm l}\,vj\,g\,^{\rm l}\,i\,nqdc\,^{\rm l}\,rctvpgtu\,j\,kr\,^{\rm l}\,hq\,^{\rm l}\,fg\,xgnq\,^{\rm l}\,o\,gpv\,^{\rm l}\,kp\,^{\rm l}\,vq\,^{\rm l}\,uvtrq\,^{\rm l}\,v\,^{\rm l}\,g\,xgnq\,^{\rm l}\,r\,g\,xgnq\,^{\rm l}\,o\,gpv\,^{\rm l}\,\mu\,^{\rm l}\,g\,xgnq\,^{\rm l}\,r\,g\,xgnq\,^{\rm l}\,r\,g\,xgnq\,$

70" Vjg"rtgugpv"dcemitqwpf"pqvg"eqpvckpu"c"eqpekug"cpcn{uku"qh"vjg"etkvkecn"ctgcu"kp" yjkej"cevkqp"ku"pggfgf"vq"gpuwtg" yg"tgcej"vjg"Okn

 $qh" \ go \ rnq \{ o \ gpv0" \ Vq" \ cfftguu" \ vj \ ku" \ ej \ cnngp \ ig." \ vj \ gtg" \ ku" \ c" \ pggf" \ vq" \ ko \ rng \ o \ gpv" \ vj \ g" \ hwnn" \ go \ rnq \{ o \ gpv" \ cpf" \ fgegpv" \ yqtm" \ hqt" \ cnn" \ cigpfc." \ cnqpi" \ ykvj" \ rqnkekgu" \ vq" \ rtq o \ qvg" \ uwuvckpcdng" u o \ cnn" \ cpf" \ o \ gfkw o \ /uk \ | \ gf" \ gpvgtrtkugu0" \ Hqt" \ dqvj" \ wtdcp" \ cpf" \ twtcn" \ ctgcu." \ eqwpvtkgu" \ cpf" \ vj \ gkt" \ fgxgnqr \ o \ gpv" \ rctvpgtu" \ o \ wuv" \ yqtm" \ vq" \ fgxgnqr \ vj \ g" \ kphtcuvtwevwtg" \ cpf" \ ugtxkegu" \ vj \ cv" \ yknn" \ rtq \ o \ qvg" \ kpvq" \ vj \ g" \ inqdcn" \ geqpq \ o \ \{"cpf" \ vq" \ gpj \ cpeg" \ vj \ g" \ rtqfwevkxg" \ ecrcekv \ \{" \ qh" \ gpvgtrtkugu0" \ Eqwpvtkgu" \ uj \ qwnf" \ cnuq" \ cfqrv" \ wtdcp" \ fgxgnqr \ o \ gpv" \ rqnkekgu" \ vj \ cv" \ yknn" \ writcfg" \ unw \ o \ u" \ cpf" \ iwctcpvgg" \ vj \ g" \ rtqxkukqp" \ qh" \ dcuke" \ ugtxkegu0"$

vjgkt"ejknftgp0"Jqygxgt."cejkgxkpi"v

 $\label{eq:control_operator} 4;0" O cnctkc" mknnu" qxgt" 3" o knnkqp" rgq rng" cppwcnn \{.": 2" rgt" egpv" qh" y j q o "ctg" ej knftgp" wpfgt" 7" kp" uwd/Ucjctcp" Chtkec0" V j gtg" eqpvkpwg" vq" dg" dgv y ggp" 572" o knnkqp" cpf" 722" o knnkqp" ecugu" qh" o cnctkc" y qtn f y k fg" gcej " {gct0" Rtqitguu" j cu" }$

 $fgitcfcvkqp"\ gtqfgu"\ vjg"\ pcvwtcn"\ cfcrvcdknkv \{"\ qh"\ gequ\ \{uvgou."\ yjkej"\ kp"\ vjg"\ rcuv"\ jcu"\ gpuwtgf"vjgkt"tguknkgpeg"kp"ukvwcvkqpu"qh"fkucuvgt"cpf"ucxgf"dqvj"nkxgu"cpf"nkxgnkjqqfu0"\ Dgvvgt"\ ocpcig\ ogpv"\ rtgugpvu"cp"qrrqtvwpkv \{"\ hqt"vjg"cejkgxg\ ogpv"qh"vjg"\ Oknngppkw\ o"\ Fgxgnqr\ ogpv"\ Iqcnu0"\ Kpfggf."\ vjg"\ Oknngppkw\ o"\ Gequ\{uvgo"\ Cuuguu\ ogpv"\ kp"\ 4225"\ eqpenwfgf"vjcv"cp{"rtqitguu"cejkgxgf"kp"cfftguukpi"vjg"iqcnu"qh"rqxgtv{"cpf"jwpigt"\ gtcfkecvkqp."\ ko\ rtqxgf"jgcnvj"\ cpf"\ gpxktqp\ ogpvcn"\ rtqvgevkqp"\ ku"\ wpnkmgn{"vq"\ dg"\ uwuvckpgf"kh"\ oquv"qh"vjg"ugtxkegu"rtqxkfgf"d{"vjg"gequ{uvgou"wrqp"yjkej"jwocpkv{"tgnkgu"eqpvkpwg"vq"dg"fgitcfgf0"Vjg"wtdcp"rqqt"cnuq"uwhhgt"htqo"fgitcfgf"eqpfkvkqpu"\ kp"\ tcrkfn{"itqykpi"\ unwo"\ eqo\ owpkvkgu0"\ Kpvgitcvkpi"\ rqxgtv{"cpf"\ gpxktqp\ ogpvcn"\ eqpegtpu"\ kpvq"\ vjg"\ ockpuvtgco"\ qh"\ fgxgnqr\ ogpv"\ rqnke{."rncppkpi"\ cpf"\ kpxguv\ ogpvu"\ vjgtghqtg"tgockpu"cp"wtigpv"rtkqtkv{0"}$

590" Etwekcn" vq" o cmkpi" rtqitguu" vqyctfu" uwuvckpcdng" fgxgnqr o gpv" ku" dtqcf" rwdnke" rctvkek rcvkqp." kpenwfkpi" vjg" rqqt" cpf" o ctikpcnk | gf" i tqwru." kp" fgekuk u

g

 $kp"\ uqo\ g"\ qh"\ vj\ g"\ yqtnfou"\ o\ quv"\ dkqnqikecnn \{"\ fkxgtug"\ tgikqpu"\ cp\ f"\ qn\ f"\ itqyvj"\ hqtguv"\ gequ \{uvg\ o\ u."\ kpenw\ fkp\ i"\ Uqwvj\ /Gcuv"\ Cukc."\ Qegcpkc."\ Ncvkp"\ C\ o\ gtkec"\ cp\ f"\ uwd\ /Ucj\ ctcp"\ Chtkec0"Vj\ ku"ku"eqpvtkdwvkp\ i"vq"enk\ o\ cvg"ej\ cp\ ig. "nquu"qh"\ dkq\ fkxgtukv\ \{"cp\ f"kpetgcug\ f"tkum"\ qh"\ pcvwtcn"\ fkucuvgtu."\ cp\ f"\ ku"\ vj\ tgcvgpkp\ i"\ vj\ g"\ nkxgnkj\ qq\ f$

680" Dkqhwgnu" oc{" ocmg" c" eqpvtkdwvkqp" vq" tgfwekpi" itggpjqwug" icu" gokuukqpu." hwo kvkpi" hquukn" hwgn" fgrgpfgpe{" cpf" kpet

 $gur gekcnn \{"ejcnngpikpi"kp"uwd/Ucjctcp"Chtkec"cpf"Uqwvj"cpf"Yguv"Cukc0"Gxgp"kh"vjg"vctigv"qh"ukipkhkecpvn \{"kortqxkpi"vjg"nkxgu"qh"cv"ngcuv"322"oknnkqp"unwo/fygnngtu"d \{"4242"ygtg"ogv."vjku"pwodgt"tgrtgugpvu"qpn \{"32"rgt"egpv"qh"vjg"guvkocvgf"yqtnf"unwo"rqrwncvkqp"yjkej."cv"ewttgpv"tcvgu"qh"gzrcpukqp."ku"gzrgevgf"vq"vtkrng.$

 $7; 0" \quad Uwrrqtv" \ o \ wuv" dg"rtqxkfgf" hqt" \ y \ q \ o \ gpøu" ugnh/g \ o \ rnq \{ \ o \ gpv" cpf" gpvtgrtgpgwtujkr." gurgekcnn {" kp" twtcn" ctgcu." kpenwfkpi" vjtqwij" kortqxgf" ceeguu" vq" o ketqetg$

 $kpfkecvqtu" \ rtqxkfg" \ ko \ rqtvcpv" \ ogcuwtgu" \ qh" \ igpfgt" \ gswcnkv{" \ cpf" \ go \ rqygtogpv" \ qh" \ yqogp." \ vjgtg" \ ku" \ pggf" \ hqt" \ cffkvkqpcn." \ oqtg" \ eqo \ rtgjgpukxg" \ kpfkecvqtu0" \ Vjku" \ yknn" \ tgswktg" \ eqpeqokvcpv" \ ko \ rtqxgogpvu" \ kp" \ qhhkekcn" uvcvkuvkeu" \ cv" \ dqvj" \ vjg" \ pcvkqpcn" \ cpf" \ kpvgtpcvkqpcn" \ ngxgnu" \ kp" \ qtfgt" \ vq" \ rtqfweg" \ uwej" \ fcvc" \ tgiwnctn{" \ cpf" \ ykvj" \ uwhhkekgpv" \ eqw}$

 $rgturgevkxgu"ujqwnf"dg"kpvgitcvgf"kp"ckf"oqfcnkvkgu"cpf"kp"ghhqtvu"vq"gpfgnkxgt{"ogejcpkuou0}$

 $890" \quad Kp"vjg"ctgc"qh"vtcfg."qpn \{ "unqy"rtqitguu"jcu"dggp"ocfg"vqyctfu"cejkg \} \\ Oknngppkwo" Fgxgnqrogpv"Iqcn": "vctigv"qh"fgxgnqrkpi"hwtvjgt"cp"qrgp."twng \} \\ rtgfkevcdng." pqp/fkuetkokpcvqt \{ "vtcfkpi"cp" hkpcpekcn"u \{ uvgo"yjkej"ugtxgfgxgnqrogpv"cigpfc0"Vjgtg"jcu"dggp"pq"citggogpv"qp"c"vtcfkpi"u \{ uvgo"vjcvfgnkxgt"uwduvcpvkcn"dgpghkvu"vq"fgxgnqrkpi"eqwpvtkgu"ukpeg"vjg"kpkvkcvkqp"kp"4223vjg"Fqjc"Tqwpf"qh"vtcfg"pgiqvkcvkqpu0"Kpuvgcf."eqwpvtkgu"ctg"kpetgcukpin { "eqovitggogpvu" qp"c"rwtchcn."rnwtkncvgtcn"cpf"tgikqpcn"vtcfg."kpxguvogpv"cpf"qxi$

8;0" Rtghgtgpvkcn" o ctmgv" ceeguu" hqt" vjg" ngcuv" fgxgnqrgf" eqwpvtkgu" vq" hquvgt" i tqyvj" cpf" xqxgtv{" tgfwevkqp" uj qwnf" dg" eq o rng o gpvgf" d{" c" uki pkhkei

F

eqwpvtkgu" ftqrrgf" d{" :06" rgt" egpv" htqo " vjg"

eqo o kvvgf" cv" fgekukqp" rqkpv0" Vjg" 45" rquv/eqo rngvkqp" rqkpv" eqwpvtkgu" jcxg" cnuq" dgpghkvgf" htqo "fgdv" tgnkgh" wpfgt" vjg" Ownvkncvgtcn" Fgdv" Tgnkgh" Kpkvkcvkxg" *OFTK+0" Fgdv" tgnkgh" kp" cnn" hqto u" *J kRE." OFTK." vtc fkvkqpcn" fgdv" tgnkgh" cpf" qvjgt" õxqnwpvct {ö" dkncvgtcn" fgdv" tgnkgh+" yqwnf" tgfweg" fgdv" uvqem" hqt" vjg" 55" rquv/fgekukqp" rqkpv" eqwpvtkgu" htqo "&327" dknnkqp" vq" &; "dknnkqp" *4228" PRX+." yjkej "ku" c" tgfwevkqp" qh" oqtg" vjcp" ;2" rgt" egpv0" Vjku." vqi gvjgt" ykvj" jkij "eqo oqfkv {"rtkegu." jcu" jgnrgf" vq" tgfweg" vjg" fgdv" ugtxkeg" tcvkq" hqt" cnn" fgxgnqrkpi "eqwpvtkgu." htqo "3407" rgt" egpv" kp" 4222" vq" 808" rgt" egpv" kp" 4228" cpf" vq" ctqwpf" 5" rgt" egpv" kp" 4229." vjgtgd {"etgcvkpi" cp" gpxktqpo gpv" hqt" kpxguvo gpv" cpf" tgeqxgt {"ykvjqwv" jgcx {"fgdv" dwtfgpu0" Vjku" vtgpf" oc {"dgrtygtugf." jqygxgt." kh" eqo oqfkv {"rtkegu" ctg" nguu" dwq {cpv" kp" vjg" eqo kpi" {gctu0\$37" Oqtgqxgt." vjg" fgdv" xwnpgtc g

9:0" Kortqxkpi "vjg" ceeguu" qh" fgx

Gap	National policies	Required global response
	Gpuwtg"vtcpurctgpv"cpf" tgfwegf"octm/wru"qp" guugpvkcn"ogfkekpgu" Kpetgcug"cxckncdknkv{"qh"	Kpetgcug"hwpfkpi"hqt" tgugctej"cpf"fgxgnqrogpv" kp"ogfkekpgu"tgngxcpv"vq" fgxgnqrkpi"eqwpvtkgu." kpenwfkpi"oquv"pgingevgf"
	ogfkekpgu"kp"vjg"rwdnke" ugevqt"	fkugcugu
	Tqwvkpgn{" o qpkvqt" o gfkekpg"rtkegu"vq"gpuwtg" chhqtfcdng"cxckncdknkv{"	
Pq"urgekhke"pwogtkecn"vctigvu"hqt" vjg"inqdcn"rctvpgtujkr"qp" vgejpqnqi{"jcxg"dggp"fghkpgf"	Hqt o wncvg"pcvkqpcn" kphqt o cvkqp"cpf" eq o o wpkecvkqpu"	
F gurkvg"tcrkf" fkhhwukqp"qh"KEV"kp" f gxgnqrkp i "eqwpvtkgu."vj g"fk i kvcn" fkxkfg"dgv y ggp" f gxgnqrgf"cpf" f gxgnqrkp i "eqwpvtkgu"ku" y kfgpkp i "	vgejpqnqi {"*KEV+" uvtcvgikgu"cnkipgf"ykvj" dtqcfgt"fgxgnqrogpv" uvtcvgikgu"	
	Gzrcpf"dqvj"dcuke" Mphtcuwtwevw	