



POLS5100

7 ci fgY'8YHJ]`g

7 fYX]hDc]bHg '*`

Gi a a UfmicZ`hY'7 ci fgY

⊕`h]g`k cf_]bH[fUHx`YUfb]b[`YI dYf]YbW`mci `k]`Udd`mUbX`YI H`bX`mci f`hYcfYh]W`_bck `YX[Y`UbX
dfUW]W`fYgYUfVX`ZV`a a i b]W]h]cb`UbX`V`UVcfU]h]cb`g_]`g`]b`U`dfcZYgg]cbU`Ybj]fcb`a Ybh`Mci `k]`VY
d`UW`X`dUf]h]a Y`k]h`U`fYgYUfVX`]bg]h`h`z`Ub`]bh]fbU]h]cbU`cf[Ub]gU]h]cbz`U`bcb![cj Yfba Ybhcf[Ub]gU]h]cbz
U[cj Yfba YbhU[YbW]ncf`U`a Ya VYf`cZdUf]Ua Ybh]f] gi U`mcbY`XUmidYf`k YY`_Zcf`%\$!%&`k YY`g`"8 i f]b[
h]g`h]a Yz`mci `k]`V`a d`Y`h`U`fYgYUfVX`dfc`Y`W]bY[ch]UH`X`k]h`h`Y`k cf_d`UW`gi dYf]]gcF`Gi W`W`ggZ`
V`a d`Y`h]cb`cZ`h`Y`]bh]fbg\]d`]g`XYdYbXYbhcb`h`Y`Z`Z`a YbhczU`V`cbfUW]h]h]U`h`k]`VY`c]bhmbY[ch]UH`X`
VY`h`YYb`h`Y`]bh]fbg\]d`X]fY`W`c`fz`k cf_d`UW`gi dYf]]gcF`UbX`mci z`h`Y`g]h`XYbh`Mci f`k cf_d`UW`a Ybhk]`VY
gi dd`Ya Ybh`X`k]h`k cf_g`l`cdg`U`h] B`G`K`k` \]W`Z`c`W`g`cb`dc`]W]h]a U_]b[`dfcW`ggYg`UbX`fYZYW]j Yz`
dfcZYgg]cbU`dfUW]W`"

7 ci fgY`@YUfb]b[`Ci hV`a Yg

%`8 Ya cbgfUH`Y`Udd`]YX`]bXYdYbXYbhdfcV`Ya `gc`j]b[`UV`]m]b`h`Y`k cf_d`UW`h`fci [\ `h`Y`gi W`W`ggZ`
V`a d`Y`h]cb`cZ`h`Y`]bh]fbg\]d`UbX`h`Y`fYgYUfVX`dfc`Y`W`f]g`f`Y`ei]fYX`Vmirc] f`U[YbW]h`
&`7 ca a i b]W]h] W`YUf]mUbX`Y`ZYW]j Y`m]b`V`ch`k`f]h]b`UbX`cfU`Z`c`fa`"
`" `8 Yd`cm]h`YcfYh]W`]bg][\`hg`Z`ca`h`Y`X]g]W]d`]bY`h`c`fYZYW]h]W]h]W]mcb`dc`]W]h]a U_]b[`UbX`#`f`
cf[Ub]gU]h]cbU`dfcW`ggYg`"
(`5 f]h]W`h`Y`Ub`Uk UfYbYgg`cZ`W]fYf`cd]h]cbg`UbX`dcgg]V`]h]Yg`"

HYUW]b[`G]fUH[]Yg`

⊕`h]g`V`ci fgY`gh`XYbh]k]`Y`b[U[Y`k]h`V`ch`h`Y`dfUW]W`UbX`h`YcfYh]W`V`a`dcbYbh]cZ`h`Y]f`X]g]W]d`]bY
UbX`k]h`h`Y`Udd`]W]h]cb`cZ`h`Y`g`Y`V`a`dcbYbh]ci`hg]XY`i`b]j`Yfg]m]G`h`XYbh]UfY`YI`dY`W]h]X`h`c`Yb[U[Y`k]h`
h`Y]f`YI`dYf]YbW]g`h`fci [\ `k`cf_g`l`cdg`Xi`f]b[`h`Y`g`Ya`Ygh]f`dfc]j]X]b[`h`Y`cddcf]h]b]m]Z`c`fYZYW]j`Y`
ZYXVUW`_UbX`YI`W]Ub[Y`cZYI`dYf]YbW]V`Y`h`k`YYb`d`Y`Y`g`"G`h`XYbh]UfY`U`gc`YI`dY`W]h]X`h`c`dfYgYbh`
h`Y]f`YI`dYf]YbW]g`]b`h`Y`Z`c`fa`U`h`cZU`W]h]W`fYZYW]h]cb`UbX`U`XYHJ]YX`dfc`Y`W]h]fYdcf]h`G`h`XYbh]UfY`
YbV`ci`fU[YX`h`c`V`cb]h]i`h`U`]gY`h`Y]f`X]g]W]d`]bY]fY`U`h`X`h`YcfYh]W`_UbX`a`Y`h`c`X`c`c[]W]h]_`bck`YX[Y`]b`h`Y`"fYU`
k`cf`X`"cZ`fYgYUfVX`_UbX`dc`]W]h]a U_]b[`h`fci [\ `h`Y`]bh]fbg\]d`UbX`h`fci [\ `h`Y`dfc`Y`W]h]fYdcf]h`h`Y`
k`cf_g`l`cdg`dfc]j]XY`Ub`]bW]g]j`Y`Z`c`fi`a`Z`c`f`h`Y`X]j`YfgY`YI`dYf]YbW]g`cZ`gh`XYbh]h`c`V`Y`g`UfYX`UbX`
X]g]W`ggYXz`UbX`Z`c`f`h`Y`g`Y`h`c`V`Y`"j`b`_YX`VUW`h`c`h`Y`_Y`mi`h`Ya`Yg`z`h`Ycf]Yg`z`UbX`a`Y`h`c`X`g`]b`h`Y`X]g]W]d`]bY`cZ`
di`V`]Wdc`]W]h]UbX`#`f`]bh]fbU]h]cbU`fY`U]h]cbg`"D`fc`Y`W]h]fYdcf]h`k`]`fYZYW]h`h`Y`fUb[Y`cZ`V`cb]h]i`hg`UbX`a`U`h]f]U`
h`Uh]X]ZY`fYbh]gh`XYbh]YI`dYf]YbW]X`Xi`f]b[`h`Y]f`]bh]fbg\]dg`"

5ggYgga Ybh

æ dcfUbh]bZcfa Uh]cb. ð'cfXYf'hc'dUgg'h]g'Wci fgYžmci 'a i ghigUhgZUWcf]m'Wca d'YH' h'Y'UggYgga Ybhg hUg_g'ci h]bYX'\YfY]b'S' V'h'Y'hUg_g'U'c'WUHX'hc'mci 'Vmmci f'\cgh]bgh]h h]cb"

D@95G9'BC H9' 'GHI 89BHG'7CA D@9H#; 'H<9# 'B H9F BG<#D'K #<'>I 6@99'5I GHF 5@5'5G D5F H'C: 'H<9# 'A 5# 'K @@'69'F 9E I # 98'HC '@C75H9'H<9# '9LD9F #9B79'K #<# '6F C589F # '8965H9G'56CI H'H<9'B5HI F 9#B-#HF I 6I H#C B'C: 'DCK 9F 'B 'H<9' B H9F B5H#B5@ GMGH9A ž5B8'H<9'F C@9'C: 'B; CG' B'H<5H'GMGH9A "'H<#G'5GD97H'C: 'H<9'5GG# BA 9BH K @@'69'8-#7I GG98'8I F #; 'H<9'K CF?G<CDG"

5ggYgga YbhHUg_g'

5ggYgga YbhHUg_g'	K Y][\h	8i Y'8UH'	Ghi XYbh@YUfb]b[Ci Wca Yg'5ggYggYX
8fUZhC f[Ub]gUh]cbU'9ggUm D'Ub'	%\$i	%, #\$, #&\$%- '%%\$\$'DA	%ž&ž
F YZYW]j Y'>ci fbU'	(\$i	%- #\$, #&\$%- '%%\$\$'DA	%ž&ž(
C f[Ub]gUh]cbU'9ggUm) \$i	%- #\$, #&\$%- '%%\$\$'DA	%ž&ž)

5ggYgga Ybh8YHJ]`g

5ggYgga Ybh% '8fUZhC f[Ub]gUh]cbU'9ggUmD'Ub

GHUfhXUH'. 'Bch5dd']WV'Y

8YHJ]`g. '%\$\$\$'k cfxg" H\Y'Uja 'cZh]g'Ugg][ba Ybh]g'hc' [i]XY'mci 'j b'h'Y'Wc''YW]cb'cZYj]XYbW'Zcf'mci f c f[Ub]nUh]cbU'YggUm'K f]H'Y'b'ZYXVUW'Zca '7ci fgY'Wc'bj Ybcf"

5XX]h]cbU'XYHJ]`g.

H\Y'Uja 'cZh]g'Ugg][ba Ybh]g'hc' [i]XY'mci 'j b'h'Y'Wc''YW]cb'cZYj]XYbW'Zcf'mci f'YggUm'Mci 'b'YX'h'c dfcj]XY'h'Y'UWUXYa]W'c'cfX]bU'hc'f'k]h'U'fYdcfghi a a UfmcZ'h'Y' hUg_g'mci '\Uj Y'VYyb'gYh]b'h'Y'Wc'b'h'Y'hcZ h'Y'\cghc f[Ub]nUh]cb'g'k cf_" H\Y'fYdcfghi a a Ufmg\ci 'X']bX]WU'Y' fU' h'Y' hUg_g'Ugg][bYX'hc'mci /fV' h'Y'cj YfU''dc']Wn'ZUa Yk cf_'cZ'h'Y'cf[Ub]nUh]cb/fW'Ub'Yj U'i Uh]cb'cZ'mci f'dfc[fYgg'hc'XUH'/UbX'fX'U'Ub UggYgga Ybh'cZ'h'Y'k cf_'fYei]fYX'hc'Wca d'YH'mci f]b'h'f'bg\jd" H\]g'Ugg][ba Ybh]g'Wc'bg'f'i W'YX'gc' h'Uh gh'XYbhg'UfY' [i]XYX']b'gYh]b['h'Y'f'ck b'fYdcfhei Ygh]cb'UbX'h'Y'cfYh]W'ZUa Yk cf_'k \]W'XYa cbgh'fU'Yg Ub'i bXYfgh'UbX]b['cZ'h'Y'fYei]fYa Ybhg'cZ'h'Y'Z]bU' hUg_g'Yh'Zcf'h]g'Wci fgY"'9b[U[]b[]b'h]g'UggYgga Ybh g\ci 'X']bX]WU'Y'U'Yj Y'cZYZYW]j Y'Wca a i b]WU]cb'cZ'h'Y'']b_'VYh'Y'Yb'h'Y'']h'fU'h'fY'gYh'Zcf'h]g'Wci fgY' UbX'h'Y'j cWU]cbU'd'UW'a Ybh'Y' dYf]YbW'U'gc'dfcj]X]b['U'gh'f'i W'i fYX'd'Ub'Zcf'h'Y'Uf[i a Ybh]h]j Y'fYdcf'h'

Hi fb]h]b'gYH]b[. H\]g'Ugg][ba Ybh]g'gi Va]H'X'h'fci [\Hi fb]h]b'UbX'gh'XYbhg'Xc'b'chgY'Y'Hi fb]h]b]g]a]Uf]m'fYdcf'g"

5ggYgga Ybh&. F YZYW]j Y'>ci fbU'

GHUfhXUH'. 'Bch5dd']WV'Y

8YHJ]g. %) \$\$k cfxg"7 f]hWU`fYZYW]cb`cb`hY`]bhYfbg\]d`YI dYf]YbW`"I b`_Y`hY`cf[Ub]gU]cbU`YggUmz`h]g
hUg_g]g`ZcW`gYX`cb`mci`f`ck`b`dYfgcbU`YI dYf]YbW`UbX`"YUfb]b[`#fUbgZcfa`U]cb`h`fci`[`]ci`h`hY`dYf]cX`cZ
hY`]bhYfbg\]d`": YXVUW`]g`]b`hY`Zcfa`cZk`f]hY`b`Vca`a`Ybhg`Zca`hY`Vci`fgY`Vcbj`Ybcf`

5XX]h]cbU`XYHJ]g.

H\]g`ci`fbU`g]ci`X`VY`Ub`Ub`m]WU`fYZYW]cb`cb`hY`]bhYfbg\]d`YI dYf]YbW`"Mci`g]ci`X`XfUk`cb`hY`
hYcf]Yg`UbX`#cf`VcbW`d]h]mci` \Uj`Y`Vej`YfYX`Xi`f]b[`]mci`f`i`b]`Yfg]migh`X]Yg`"H\Y`ci`fbU`g]ci`X`U]h]W`U]hY`
k` \U]mci` \Uj`Y`YUfb]h]Zca`hY`]bhYfbg\]d`YI dYf]YbW`UbX`]h]j`U`i`Y`]b`hY`fa`g`cZYbUV`]b[`]mci`h`XfUk`cb`
mci`f`dcg]f`fUXi`U]hY`gh`X]Yg` \YfY`U]h` B`G`K` "

Hi`fb]h]b`gYH]b[. H\]g`Ugg][`ba`Ybh]g`gi`Va`]hYX`h`fci`[`]Hi`fb]h]b`UbX`gh`XYbhg`Xc`bchgY`Y`Hi`fb]h]b`
g]a`]U]f]mifYdcf]g`"

5ggYgga`Ybh`. `C`f[`Ub]gU]cbU`9ggUm

G]U]f]hXU]hY`. `B`ch5dd`]W]V`Y`

8YHJ]g. " \$\$\$k cfxg"l`dcb`Vca`d`Y]h]cb`cZ`hY`]bhYfbg\]d`gh`XYbhg`U]fY`fYei`]fYX`h`c`gi`Va`]h]Ub`YggUm]h]U]h`
dfc]`X]Yg`U`W`]h]W`Y`j`U`i`U]h]cb`cZ`hY`]bhYfbg\]d`YI dYf]YbW`h`fci`[`]U`ZcW`g`cb`hY` \cg]hcf[`Ub]n]U]h]cb`"H\]g`
]g`bcha`YU]bh]c`VY`U`W`]h]e]i`Y`cZ`hY` \cg]hcf[`Ub]n]U]h]cb`Vi`h]U`XYa`cbg]h]U]h]cb`cZk` \U]h`Ug`VY`Yb`YUfb]h]U]Vci`h`
hY`cf[`Ub]n]U]h]cb`f]UbX`k`cf_]b[`]b`h]U]h]U]fYU`cZ`di`V`]Wdc`]W]h`h`fci`[`]hY`]bhYfbg\]d`YI dYf]YbW`": YXVUW`
k`]VY`]b`hY`Zcfa`cZk`f]hY`b`Vca`a`Ybhg`V]m]hY`Vci`fgY`Vcbj`Ybcf`"H\]g`]g`hY`Z]bU`Ugg][`ba`Ybh]cZ`hY`Vci`fgY`

5XX]h]cbU`XYHJ]g.

H\]g`Ugg][`ba`Ybh]g`Vcbg]h] W]X`gc`h]U]h]gh`XYbhg`U]fY`Yb[`U[`YX`]b`]bXYdYbXYbhUbX`fYZYW]Y`Y`YUfb]b[``5g`
U`g]U]f]h]b[`]dc]b]h]mci`a`UmVcbg]XYf`hY`Z`ck`]b[`ei`Yg]h]cbg`]b`hY`fa`g`cZg]h]f]i`W]i`f]b[`]mci`f`YggUm`

:`fca`U`b`cf[`Ub]gU]cbU`dYfgdYW]j`Y.`

c`k` \U]h]XcYg`hY` \cg]hcf[`Ub]gU]cb`Xc3`

c` \ck`]g`hY` \cg]hcf[`Ub]gU]cb`cf[`Ub]gYX`h`U]W`]Y`Y`]h]g`cV`YW]j`Yg3`

:`fca`U`Z`bW]cb]b[`cZa`UbU[`Ya`Ybh]dYfgdYW]j`Y.`

c` \ck`U]fY`dfcV`Ya`g`h]U]W`YX`k`]h]b`hY` \cg]hcf[`Ub]gU]cb3`

c`k` \m]U]fY`hY`m]dfcV`Ya`g`k`]h]b`hY` \cg]hcf[`Ub]gU]cb3`

:`fca`U`_bck`YX[`Y`UbX`dck`Yf`dYfgdYW]j`Y.`

c`k` \U]h]XcYg`h]g`hY`"mci`U]Vci`h]hY`a`UbU[`Ya`Ybh]dfcW]gg`

c`f]YgdYW]U`m]b`hY`fa`g`cZcV`YW]j`Y`gYH]b[`E`k`]h]b`hY` \cg]hcf[`Ub]gU]cb`

Hi`fb]h]b`gYH]b[. H\]g`Ugg][`ba`Ybh]g`gi`Va`]hYX`h`fci`[`]Hi`fb]h]b`UbX`gh`XYbhg`Xc`bchgY`Y`Hi`fb]h]b`
g]a`]U]f]mifYdcf]g`"

5 HfYbXUbW`F Yei]fYa Ybhg

H\Y`gWXYXi `Y`cZH`g`W`i fgY`]g`bYW`ggUf`mZYI]V`Y`UbX`k`j`X]ZZf`Zcf`YUW``ghi XYbhXYdYbX]b[`i dcb`hY`k`cf`_`UffU`b[Ya Ybhg`bY[ch]UH`X`k`]h`h`Y`c`g`h`c`f[Ub]gU]cb`fk`]h`h`Y`Ugg]ghU`bW`c`Z`h`Y`W`i fgY`W`b`j`Y`b`Y`f`H`m`d]W`n`z`]b`h`f`b`g`k`j`g`d`Y`b`X`c`b`Y`X`U`m`d`Y`f`k`Y`Y`_`k`]h`h`Y`f`c`g`h`c`f[Ub]gU]cb`"Hk]W`Xi`f]b[`h`Y`g`Ya`Y`g`h`f`z`gh`XYbh`k`j`W`a`Y`h`c[Y`h`Y`f`Z`c`f`U`k`cf`_`g`l`c`d`U`h`i` B`G`K` `h`c`X`]g`W`gg`U`b`X`f`Y`Z`Y`W`i`c`b`h`Y`f`]b`h`f`b`g`l`d`Y`i`d`Y`f`]b`W`g`"H\Y`X`U`H`g`c`Z`h`Y`g`Y`k`cf`_`g`l`c`d`g`k`j`V`Y`U[f`Y`Y`X`c`b`c`b`W`h`Y`]b`h`f`b`g`l`d`g`W`Y`X`i` `Y`c`Z`U`gh`XYbh`g`l`U`g`V`Y`b`W`c`b`Z`fa`Y`X`"

: cf`h`Y`d`i`f`d`c`g`Y`c`Z`U`H`f`b`X`U`b`W`a`c`b`]h`c`f]b[`z`h`Y`Z`b`U`U`g`g`Y`g`g`a`Y`b`h`Z`c`f`h`]g`W`i`fgY`]g`h`Y`c`f[Ub]nU]cbU`Y`g`g`U`m`k`c`f`h` `) \$i `c`Z`m`c`i`f`c`j`Y`f`U` [f`U`X`Y`Z`c`f`h`]g`W`i`fgY`"H`l`]g`]g`h`Y`U`g`g`Y`g`g`a`Y`b`h`]h`Y`a` `h`U`h`k`j`V`Y`[f`U`X`Y`X`U`h`n`Y`f`c`]Z`m`c`i` `X`c`b`c`h`a`Y`Y`h`h`Y`U`H`f`b`X`U`b`W`f`Y`e`i`]f`Y`a`Y`b`h`Z`c`f`h`]g`W`i`fgY`"

: cf`h`]g`W`i`fgY`Z`U`H`f`b`X`U`b`W`]g`W`W`U`H`X`U`g`g`l`c`k`b`]b`h`Y`h`U`V`Y`V`Y`c`k`.

@YUfb]b[`UW]j]hm	A cb]hcf]b[`a YW`Ub]ga	A]b]a`i`a`U`H`f`b`X`U`b`W`f`Y`e`i`]f`Y`a`Y`b`h`
=b`h`f`b`g`l`d`U`W`]j`]h`Y`g`k`]h`l`c`g`h`	<c`g`h`h`c`_`Y`Y`d`f`c`"	}%\$`#`%`&`
A`Y`Y`h`b[`g`k`]h`7`c`i`f`g`Y`7`c`b`j`Y`b`c`f`	7`c`b`j`Y`b`c`f`h`c`_`Y`Y`d`f`c`"	&`#`&`

Z`m`c`i` `U`f`f`]j`Y`a`c`f`Y`h`U`b`%)`a`]b`i`h`Y`g`U`H`Z`c`f`Y`U`j`Y`W`U`g`g`k`]h`a`c`f`Y`h`U`b`%)`a`]b`i`h`Y`g`f`Y`a`U`]b]b[`z`m`c`i` `a`U`m`V`Y`f`Y`W`c`f`X`Y`X`U`g`U`V`g`Y`b`h`Z`g`i`W`U`d`Y`b`U`h`m`]g`]a`d`c`g`Y`X`Z`m`c`i` `k`j`V`Y`U`X`j`]g`Y`X`]b`k`f`]h`b[`k`]h`]b`&(`\`c`i`f`g`"5`h`Y`a`d`h`g`h`c`Z`U`g`]z`m`U`H`f`b`X`U`b`W`f`Y`W`c`f`X`g`k`j`V`Y`h`Y`U`H`X`U`g`g`h`XYbh`a`]g`W`c`b`X`i`W`h`i`b`X`Y`f`h`Y`E`f`g`V`W`f`?`[e`U`a`V`g`U`f`B`d`a`U`W`g`d`W`Z`

7 ci fgY`GW`Y`X`i` `Y`

F Ygci fWg

DfYgWf]VYX F Ygci fWg

H\Y'I b]j Yfg]hm]g'UV`Y'hc`ZJW`]HJH'gi WfWggZ`Udd`]WUbhg`]bhYfbg\]dg'k]h\`h\Y`fYgYUfW!VUgYX
UXj`cWUWmB; C`>i V]`YY`5i ghfU`]U`Zfca`U`WJa`di`g!VUgYX`c`WU]cb`"Gh`XYbhg`a`UmiU`gc
]bXYdYbXYbh`m`c`WU`h`c`h`Yf`\`cg`h`c`f`[`Ub]nUh]cbg`UbX`c`v`h]b`U`d`Yfa`]gg]cb`Zfca`h\Y`A`#`W`bj`Ybc`f`h`c
\Uj`Y`]bhYfbg\]d`h\YfY`"

F YUX]b[`UbX`fYgci fWg

H\YfY`]g`bc`g`Yh`fY`UX`Yf`Z`c`f`h`]g`W`ci`fgY`"<`ck`Yj`Yf`h`Y`Z`c`ck`]b[`]'g`U`"]ghcZfYW`ca`a`Yb`XYX`fY`UX]b[`g`UbX
fYgci`fWg`h`Uhk`]`Y`d`m`ci`Xi`f]b[`m`ci`f`]bhYfbg\]d`UbX`k`]h`m`ci`f`k`f]hYb`UggYgga`Ybhg`UbX`c`fU`
dfYgYb]h]cbg`" #ik`]`VY`YI`fY`a`Y`m`X]Z]W`h`hc`W`ca`d`Y`h`m`ci`f`UggYgga`Ybhg`k`]h`ci`h`W`bgi`h]b[`U`bi`a`VYf`c`Z
h\Y`fY`UX]b[`g`cb`h`]g`"]gh`"

H\YfY`]g`U`c`hc`ZYI`W`Y`b`h`]hY`fU`h`fY`c`b`h`Y`a`U`_]b[`c`Z`di`V`]W`dc`]W`h`]b`5i`ghfU`]Uz`]b`c`h`Y`f`W`ci`b`h`]Y`g`z`UbX`U`h
h\Y`[`c`VU`Y`j`Y`H`]g`"]gh]b`b`ch`YI`\`Ui`g`h]`Y`z`]b`ZJW`h`h`V`U`f`Y`m`ig`W`U`h`W`Y`g`h`Y`gi`f`ZJW`"M`ci`U`fY`Y`b`W`ci`fU[`Y`X`h`c`
i`g`Y`h`Y`g`Y`g`ci`fWg`U`g`U`g`h`U`f`h]b[`dc]bh`UbX`U`X`m`ci`f`c`k`b`g`ci`fWg`h`c`h`]g`"]gh`h`f`ci`[`\`ci`h`m`ci`f`]bhYfbg\]d`
H\Y`Z`c`ck`]b[`"]gh]b`W`i`XYg`fY`W`b`h`V`cc`_g`k`f]hYb`]b`h`]g`U`fY`U`U`g`k`Y`U`g`g`ca`Y`W`U`gg]W`V`cc`_g`h`h`U`h`\`U`j`Y
XY`Z]b`Y`X`h`Y`U`b`U`m`g]g`c`Z`di`V`]W`dc`]W`h`H\Y`V`cc`_g`m`ci`W`c`cg`Y`h`c`fY`UX`k`]`XY`d`Y`b`X`c`b`h`Y`Z`c`W`g`c`Z`h`Y
U[`Y`b`W`h`k`\`Y`fY`m`ci`U`fY`X`c]b[`m`ci`f`]bhYfbg\]d`UbX`m`ci`f`c`k`b`]bhYfY`ghg`" #ik`]`d`f`c`V`U`V`m`i`U`g`c`X`Y`d`Y`b`X`c`b
k`\`Y`h`Y`f`h`Y`f`c`d`Y`f`U`h]cbg`U`fY`c`W`z`b`U`h]cb`U`z`c`f[`\`c`VU`"A`cg`h`c`Z`h`Y`V`cc`_g`"]gh`X`\`Y`fY`U`fY`Y`X`h`X`k`c`f`_g`k`]h
X]Z]Y`fY`b`h`W`U`g`Y`g`h`X]Y`g`]b`Y`U`W`W`U`d`h`f`k`\]W`a`U`_Y`g`h`Y`a`j`Y`f`m`i`d`h`c`X`U`h`Y`U`b`X`a`Y`U`b`g`h`Y`m`W`c`j`Y`f`U`j`U`g`h
f`U`b[`Y`c`Z`di`V`]W`dc`]W`h]g`gi`Y`g`"F`Y`a`Y`a`V`Y`z`h`Y`V`Y`g`h`d`U`W`h`c`Z]b`X`dc`]W`h`X`c`W`a`Y`bhg`]g`h`Y`]b`g`h]h`h]c`b`z`
X`Y`d`U`f`h`a`Y`b`h`z`c`f`c`f[`U`b]g`U`h]cb`h`U`h`d`f`c`X`i`W`X`h`Y`a`!`g`c`h`U`h`g`l`c`i`X`U`k`U`m`g`V`Y`m`ci`f`Z]f`g`h`g`h`c`d`"

#`m`ci`f`YI`d`c`f`U`h]cb`c`Z`h`Y`di`V`]W`dc`]W`h]hY`fU`h`fY`z`m`ci`k`]`Z]b`X`h`Y`]V`f`U`f`m`k`Y`V`g]h`Y`U`b`]b`j`U`i`U`V`Y`f`Y`g`ci`f`W`"
[\ftd.##k k k "\]VfUfmi bgk "YXi "Ui](#)

7Ybhi fmf@cXcb. <UfdYf'7c`]bgE"

7`Y[[žGHk Ufhf&\$\$*ĹH\Y`G5; 9`UbXVcc_`cZcf[Ub]nUhc`gh X]Yg`&bX`YX]hc`f@cXcb. `GU[Y`Ĺ"

7cbg]X]bYžA Uf_`f&\$\$) ĹžA U_]b[`Di V`]WDc`]Wnf7 Ua Vf]X[Y.`Dc`]mDfYggĹ"

; ccXa Ubž>"f&\$%&ž" Bcb!ghUf`UWc`fg.`A i`h]bUhc`bU`7 cfdfUhc`bg`UbX`bHf`bUhc`bU`Bcb!; cj Yfba YbU`
C f[Ub]gUhc`bg"ž`b`5bH`cbm6i f_Y`UbX`>]a` ; Ycf[Y`fYXgžfi3` ;`fdaVgUf[a``fa` ;`fWd`Sf[a` S^DWSf[a` ež&bX
9X]hc`bž7 Ua Vf]X[Y.`7 Ua Vf]X[Y`I` b] Yfg]mDfYggždd"" %\$!` &&"

>cfXUbžG"/`Hi`]^žDžJ`"f&\$\$žž" Dc`]h]W`F Ygdcbg]V`]m]b`HfUbg`bUhc`bU`B; C`5Xj`cW]W`žI` adV
6W`hW`ab_`W`fi`J`c`"&`ž`B`c`"%&ž`dd`"&\$) %d`&\$*`)"

>i`V]`YY`5i`gfU`]U`F`YgYUfW`7`YbhfY`f&\$%(ĹJ`c]W`g`cZ6ci`[`U]bj`]`Y.`B_]UbU`?`Ub[`g]žB_]UbU`8cb[`8Ua`UbUž

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Gi Va]gg]cb`cZ5ggYgga YbhHUg_g

Hi fb]hb`Gi Va]gg]cb

≠mci`YbWci`bHYf`U`dfcV`Ya`k`Yb`U`HYa`dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybh`fci`[`\`Hi`fb]hb`z`d`YUgY`
HY`Yd`cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`'`'`'`%cf`Ya`U]`h`Ya`cb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`"Gi`ddcfh`
`ci`fg`UfY`,`.\$\$Ua`-`%\$.\$\$da`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`cb`k`YY`YbXg`fI`*)`XUmg`U`mY`UfL`"≠mci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`YbhXi`Y`hc`U`ZUi`hik`]h`Hi`fb]hb`mci`a`Um`Udd`mi`Zc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`
a`i`gh`fY`hU]b`mci`f`h]W`Yhbi`a`VYf`Zca`9I`HYfbU`Gi`ddcfhU`cb[`k`]h`Ubmc`h`Yf`fY`Yj`Ubh`Xc`W`a`Yb`hg`L`hc`
]b`Wi`XY`Ug`Yj`]XYb`W`hc`gi`ddcfhmc`i`f`YI`HYbg]cb`Udd`]W`h]cb"≠mci`Ya`U]`9I`HYfbU`Gi`ddcfhmc`i`k`]`
Ui`hca`U`h]W`m`fY`W`]j`Y`U`h]W`Yhbi`a`VYf`z`Vi`h]Zmci`HY`Yd`cbY`mci`k`]`b`YYX`hc`gd`Y`W`Z]W`m`Ug`_`Zc`f`cbY`
Hi`fb]hb`U`gc`d`fcj`]XYg`i`d`XU`HY`g`cb`h`Y]f`gm`gh`Ya`g`hU`h`g`cb`Hk`]h`Yf`"

;`Yb`Yf`U`m`z`Ugg`Ygga`Ybh`HUg_g`a`i`gh`VY`gi`Va`]h`YX`Y`Y`W`f`cb]W`m`j`]U`Y`]h`Yf`Hi`fb]hb`cf`U`A`cc`X`Y`
Ugg][`ba`Ybh`f`b`]bg`h`Ub`W`g`k`Y`fY`h`l`g`]g`b`chid`cgg]V`Y`z`]h`k`]`VY`g`h`Y`X`cb`mci`f`Wci`fg`Y`g`A`cc`X`Y`g`]h`k`]h`
U`h`Y`fb`U`h]j`Y`gi`Va`]gg]cb`XY`hU]`g"

:`cf`]b`Zc`fa`U`h]cb`cb`\`ck`hc`gi`Va`]h`Ugg][`ba`Ybh`g`cb`]b`Y`j`]U`A`cc`X`Y`.\`h`td`g`#`gh`XY`bh`i`bgk`"YXi`"Ui`#`ack`!
gi`Va`]h`Ugg][`ba`Ybh`a`cc`X`Y`"

5 WUXYa]W<c bYghmUbX`D`U[]Uf]ga

D`U[]Uf]ga `]g`i g]b[`hY`k cfXg`cf]XYUg`cZchYfg`UbX`dfYgYbh]b[`hYa `Ug`mci f`ck b" `hWUb`hU`Y`a Ubm
Zcfa gZ`Zca `XY`]VYfUHY`WXYU]b[`hc`UW]XYbhU`mW`dm]b[`Zca `U`gci fW`k]hCi hUW_bck`YX[Ya Ybh`

I BGK `[fci dg`d`U[]Uf]ga `]bhc`hY`Zc`ck]b[`W]HY[cf]Yg.

7 cdm]b[.`i g]b[`hY`gUa Y`cf`j Yfmg]a]Uf`k cfXg`hc`hY`cf][]bU`hYI hcf`]XYU`k]hCi hUW_bck`YX[]b[`hY
gci fW`cf`i g]b[`ei chU]cb`a Uf_g" `H\]g`U`gc`Udd`Yg`hc`]a U[YgZ`UfhUbX`XYg][b`dfc`YWgZ`Ug`k Y`Ug
dfYgYbhU]cbg`k \YfY`gca YcbY`dfYgYbh]b[`Ubc`hYf`g`]XYUg`cf`k cfXg`k]hCi hW]YX]h`

hUddfcdf]UHY`dUfUd`fUg]b[.`7`U`b[]b[`U`Zk`k cfXg`UbX`d`fUgYg`k`Y`a cghmifYU]b]b[`hY`cf][]bU`
g]fi W`fY`UbX`#`f`dfc[`fYgg]cb`cZ]XYUg`cZ`hY`cf][]bU`Z`UbX`]bZcfa U]cb`k]hCi hUW_bck`YX[Ya Ybh`H\]g`U`gc
Udd`Yg`]b`dfYgYbhU]cbg`k \YfY`gca YcbY`dUfUd`fUgYg`Ubc`hYf`g`]XYUg`cf`k cfXg`k]hCi hW]YX]hU`bX`hc
d]Y]b[`hc[Y`hYf`ei chYg`UbX`dUfUd`fUgYg`]bhc`U`bYk`k \c`Y`Z`k]hCi hUddfcdf]UHY`fYZYfYbW]b["

7 c`i g]cb.`k cf_]b[`k]h`chYfg`Vi hdUgg]b[`cZ`hY`k cf_]Ug`U`dYfgcb`g`]bX]j]Xi U`k cf_"`7 c`i g]cb`U`gc
]bW`i XYg`dfcj]X]b[`mci f`k cf_]hc`Ubc`hYf`gh`XYbhVYZc`fY`hY`Xi Y`XU]hZ`cf`Zc`f`hY`di fdcgY`cZ`hY`a
d`U[]Uf]g]b[`Uh`Ubm]h]a YZ`dUm]b[`Ubc`hYf`dYfgcb`hc`dYfZcfa `Ub`UW]XYa]W]Ug`Z`ghYU`]b[`cf`UW`i]f]b[
Ubc`hYf`dYfgcb`g`UW]XYa]Wk cf_]UbX`W`dm]b[`]hZ`cZ]f]b[`hc`W`a d`Y`h`Ubc`hYf`dYfgcb`g`k cf_]cf`gYY_]b[
dUma YbhZc`f`W`a d`Y]b[`UW]XYa]Wk cf_"

hUddfcdf]UHY`W]U]cb.`7]h]b[`gci fW]g`k \]W\`Uj Y`bchVYYb`fYUXZ`k]hCi hUW_bck`YX[]b[`hY`gYW`bXUfm`
gci fW`Zca`k \]W`_bck`YX[Y`cZ`hY`a `Ug`VYYb`cV]U]bYX"

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wcdmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dYW'X'cZYj Yfmcby`]b'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]Wg'UbX'j]bZcfa Uh]cb'UVci hl BGK 'UbX'I BGK '@]VfUfm

Gca Y'cZh'YgY'UfYUg'k]`VY'ZJa]]Uf'hc'mci ž'ch'Yfg'k]`VY'bYk " "; U]b]b['U'gc`X'i bXYfghUbx]b['cZU`h'Y fY'UH'X'UgdYW'g'cZ9@G9'k]`Y'd'mci 'a U_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\hhd.##ji V'YW'i \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

5 WUXYa]WbZcfa Uhcb`

: cfYggYbhU`ghi XYbh]bZcfa Uhcb`fY`Uh]b[`rc.

- fYei Ygh`ZcfYI hYbg]cb/