

SOCW2100

5Vcf][]bU`DYcd`Y`UbX`GcWJU`K cf_

HYfa 'C bY''##'&\$%-

7ci fgY⁻Cj Yfj]Yk

'GhUZZ'7 cbhUWh'8 YhU]`g'

'7cbj Ybcfg'

B Ua Y	9a U]`	5j U]`UV]`]hm	@cWUhjcb	D\cbY
6>'BYk lcb	V"bYk lcb4 i bgk "YXi "Ui	K YX"!(da		D`YUgY WcbHUWhj]U YaU]`

GWkcc`7cbHJWhi±bZcfa Uh]cb

GWXcc``cZGcWJU``GWJYbWYg

Fcca '%) -

A cfj Yb 6fck b 7 &\$

Ya U]`. 'gcgg4 i bgk "YXi "Ui

d\cbY. '\$&'-',) '% \$+

7ci fgY 8YHJ] g

7 fYX]hDc]bhg**

Gi a a UfmcZh\Y 7ci fgY

GIVYWn5fYU. EaU[S^I ad]

91 Ua]bYg'h\Y'\]ghcfmUbX'W ffYbh`Y[UWncZWc`cb]gUh]cb'UbX'[cj Yfba Ybhdc`]W]Yg'Zcf'\DX][Ybci g 5i ghfU`]Ubg'UbX'h\Y]f'dcg]h]cb']b'WcbhYa dcfUfm5i ghfU`]Ub'gcW]Yhm''GcW]U`a cj Ya Ybhg'UbX'UWf]cbg'fY`Yj Ubh hc'\DX][Ybci g'5i ghfU`]UbgfigcW]U`Yl dYf]YbW'k]``VY'X]gW ggYX"'5XXfYggYg']b'dUfh]W'Uf'h\Y'g_]``g'gcW]U`k cf_Yfg'bYYX'hc'k cf_'k]h\'\DX][Ybci g'W]Ybhg'UbX'k \Uhifc`Y'gcW]U`'k cf_'WUb'd`Um]b'dfc[fYgg]b['Yei]hm UbX'gcW]U`'^ gh]W'Zcf'\DX][Ybci g'5i ghfU`]Ubg"

5ggYgga Ybh

7 'Ugg'DUfhWdUhcb

Ghi XYbhgʻUfYʻYl dYWYXʻhcʻh\ci [\hi `mUbX`UWfj Y`mYb[U[Y`k]h\rh\Y`Wci fgY`WcbhYbhžʻUbXʻh\Y]fʻck b k cfʻXj]Yk gʻUbXʻdYfWdhJcbgʻ]bʻfY`UhJcbʻhcʻh\Y`Wci fgY"ʻHcʻUgg]ghih\]gžghi XYbhgʻg\ci `X`Wca YʻdfYdUfYX hcYUW\rh hcf]U``k]h\ru`ei YghJcbžWca a YbhcfʻX]gW gg]cbʻhcd]W]bʻfY`UhJcbʻhcʻh\Y`k YY_`mfYUX]b[gžcfʻh\Y`YWfi fY`WcbhYbh'`9UW\rh hcf]U``k]```Wf]hJWU``mYb[U[Y`k]h\rk\Uhighi XYbhgʻ\Uj Y``YUfbhih\Uhik YY_žUbXʻh\YgYX]gW gg]cbgʻk]```UJX`mci 'hc`k f]hY'nci fʻZJbU``UggYgga Ybh'

Cb`lbY'Eiln

5ggYgga Ybh'HUg_g'

5ggYgga Ybh'hUg_	K Y][\h	8i Y'8UHY	Gh XYbh@YUfb]b[Ci hWca Yg 5ggYggYX
9ggUmi	' \$ı	&\$#\$' #&\$% '\$).\$\$'DA	%ž&ž(ž)
Hi hcf]U`; fci d'DfYgYbhUh]cb'	&\$ı	% #\$(#&\$%-	%ž&ž(ž) ž*
GY`ZfYZYW¶cb) \$1	% #\$(#&\$% `\$) .\$\$`DA	%ž&Ž Ž(ž)

5ggYgga Ybh'8YhJ]`g

5ggYgga Ybh% 9ggUm

GHJfhXUhY.

@Yb[h. **\$\$ * k cfXg

 $8YHU] `g. `8YgWf] dh] cb. `5b`YggUmcb`U`hcd] WfY`Yj Ubhhc`h\Y`Wci fgY`f%$$$`k cfXgŁ"`H\] g`a Um`VY`fY`UhYX`hc mci f`h hcf] U``dfYgYbfUh] cb`hcd] W```: YYXVUW_. K f] hhYb`ZYYXVUW_. k]h\] b`&`k YY_g`cZXi Y`XUhY$

5XX]h]cbU`XYhU]`q.

g]a]`Uf]hmifYdcfhg"

5ggYgga Ybh& Hi hcf]U; fci d DfYgYbhUh]cb

GhUfh'XUhY. "&+#\$" #&\$%-

8 YHU]`g. '8 YgWf]dh]cb. '\underline hi hcf]U``[fci dgʻghi XYbhgʻk]```Zcfa 'ga U```[fci dgʻcZ&!) 'ghi XYbhgʻUbX`XYj Y`cdʻU dfYgYbhUh]cbʻUfci bX`U'hcd]WX]gW ggYX`]b`h\Y``YWhi fYg#hi hcf]U`gʻfhci 'k]```VY`dfcj]XYX`k]h\`U``]ghhc`WkccgY Zfca Ł"'H\Y'dfYgYbhUh]cbgʻk]```VY`[]j Ybʻ]b`hi hcf]U`gʻUbX`YUW\`[fci d`k]```\Uj Y'' \$`a]bi hYgʻhc dfYgYbh': YYXVUW_.K f]hh\b`ZYYXVUW_k]h\]b`&`k YY_gʻcZXi Y`XUhY'''

5XX]h]cbU`XYhJ]`q.

8 i f]b['k YY_'%cZh hcf]U`gʻgh XYbhgʻk]```Zcfa 'ga U```[fci dgʻfZci fʻ[fci dgʻdYfʻh hcf]U``WUggŁžW.ccgY'h\Y]f dfYgYbhUh]cb'hcd]WžUbX'bca]bUhY'U'k YY_'hc'dfYgYbhfk YY_'*ž'+ž', 'cf'-Ł"

Ghi XYbhg WJb WkccgY Zfca 'cbY cZh\Y Zc``ck]b['hcd]Wg Zcf'h\Y]f'dfYgYbhJh]cbz'cf'[fci dg WJb WkccgY h\Y]f ck b'f]b Wbbgi `hJh]cb'k]h\ WJgg'h hcfgŁ

! 'H\Y'g][b]Z]\Wb\\\'cZHYffU'Bi ``]i g'hcXUm

!'GcW]U`^↑gh]WYžYeiU`]miUbX`±bX][Ybcig'5ighfU`]Ubg

! \=bX][Ybci q WX] \Xž\ZJa]\mUbX\Wca a i b]\mk Y\\ZJfY

! '? Yma ca Ybhg ']b '5 Vcf][]bU` '5 i ghfU`]U

 $! <]qhcf]WU``hfUi a Už`\YU`]b[`UbX`fYq]`]YbWY$

!'7 `cg]b['h\Y'; Ud

! 8]gdY``]b['a mt\gž'Wca VUt]b['gtYfYchmdYg

! '5 V c f] [] b U ` ' U W j]] ga

! CddfYgg]j Y [cj Yfba Ybhdc`]WYg

! '7 i `hi fu``Wca dYhYbWY'k \YfY'h\YfY']g'W `hi fu``X]ZZYfYbWY

! GcWJU`k cf_Yfg`UbX`\DX][Ybci g`Wca a i b]hJYg

łBchYnhYgYncd]Wg^Uj YnVYYbnYZhei]hYnVfcUXngchrcink]***\Uj YnhYnZYI]V]*]hmhchXYj Yncdhrci fick bn]XYUg UbXnUddfcUW.hchhYncd]W

H\Y'dfYgYbHJhJcb'WJb'VY'XY`]j YfYX']b'U'fUb[Y'cZX]ZYfYbhik Umgž'Zcf'Yl Ua d`Yž'U'Zcfa U``Dck YfDc]bh dfYgYbHJhJcbž'U'dc`]hJWJ'`WJa dU][bž'U'XYVUhYž'U'fc`Y!d`Umž'cf'Ubmch\Yf'UddfcUW\'mci 'W\ccgYž'Ug'`cb['Ug mci 'UfY'XYa cbghfUhJb['mci f'i bXYfgHJbX]b['cZh\Y'hcd]W]b'fY`UhJcb'hc'h\Y'Wti fgY``YUfb]b['ci hWta Yg'''\Ci g\ci X'U'gc'`]b_'mci f'dfYgYbhJhJcb'hc'h\Y'fY`Yj UbWY'cZ#]a d`]\WJhJcbg'Zcfz'gc\WJU`k cf_"

5```ghi XYbhg`UfY`YI dYWMYX`hc`UWnjj Y`mWcbhf]Vi hY`hc`h\Y`XYj Y`cda Ybh`UbX`XY`]j YfmcZh\Y`dfYgYbhUhjcb" Ghi XYbhg`k]```VY`a Uf_YX`]bX]j]Xi U``mUbX`k]```VY`dfcj]XYX`k]h\`k f]hhYb`ZYYXVUW_h\Y`Zc``ck]b[`k YY_"

.

Gi Va]gg]cb bchYg.DfYgYbhUh]cbg \Y`X`Xi f]b['k YY_g'* ž'+ž', / '-

Hi fb]hjb gYhjb[. H\]g]g bchU Hi fb]hjb Ugg][ba Ybh

5ggYgga Ybh' . GY`ZfYZYW1]cb

GHJfhXUhY.

@Yb[h\. %) \$\$ k cfXg

 $8 YHU]^*g. ^*8 YgW^*]dh]cb. ^*\&) $$^*k cfX^*fYZYW^*]cb^*cb^*U^*hcd]W^*fY^*Yj Ubh^hc^*h_Y^*W^*ci fgY: YYXVUW_, ^*K f]hh/b^*ZYYXVUW_ k]h_]b^*&^*k YY_g^*cZXi Y^*XUhY^+h_]g^*]g^*h_Y^*Z]bU^*UggYgga Ybh^Zcf^*h_Y^*W^*ci fgY$

5XX]h]cbU`XYhU]`g.

 $D@95G9`BCH9.`H\Y`XYgWf]dh]cb`Zcf`h\]g`UggYgga~Ybh\Ug`W\&Ub[~YXž`]h]g`bchU`fYZYWf]cb`cb`U`dUfh]W``Ufhcd]W`GYY`WcffYWhXYhU]`g`VY`ck"$

H\]g'UggYgga Ybh]g'U'Wf]h]WU'gY`ZfYZYWf]cb'cb'mci f'ci fbYmh\fci [\ci hih\Y'Wci fgY''Mci 'k]\h'\bYYX'hc'k f]h\ UVci hk\Uhmci '\Uj Y'YUfbh'UbX'\ck 'mci '\Uj Y'fYUWhYX'UbX']bhYfUWhYX'k]h\ 'h\Y'Wci fgY'WcbhYbh'UbX'mci f gcW]U''k cf_'dYYfg'''<ck '\Uj Y'mci f'dYfWfdh]cbg'cb'h\Y'j Uf]ci g'hcd]Wg'Yl d'cfYX'h\fci [\ci hih\Y'Wci fgY W\Ub[YX'g]bWf'h\Y'VY[]bb]b['cZhYfa 3'K\Uhhcd]Wg'a UXY'U'dUfh]W'f']a dUWhcb'mci 'UbX'k\m3'=a dcfhUbhmz k\UhXc'h\YgY'YUfb]b[g'a YUb'Zcf'\ck 'mci 'k]'`'UddfcUW\'mci f'fc'Y'Ug'U'gcW]U'k cf_Yf']b'h\Y'Z]Y`X3

Hc'U]X']b'kf]hjb['h\]g'gY'ZfYZYWhj Y'YggUmžkY'ghfcb['mYbWcifU[Y'ghiXYbhg'hc'_YYd'U'fYZYWhj Y'cifbU'h\Uhmci'kf]h\]b'fY[i'UhmZc'`ck]b[''YWhifYg'UbX'hihcf]U'gž'UbX'UZhYf'Yb[U[]b['k]h\Y'WcifgY'WcbhYbh'GhiXYbhg'UfY'YldYWhYX'hc'igY'WjhUhjcbg'Zfca'h\Y'WcifgY'WcbhYbhžUbX'gY'ZfYZYWhj Y'']hYfUhifY']b'h\Y'kf]hjb[cZh\]g'YggUm'

Hi fb]hjb'gYhjb[.'H\]g'Ugg][ba Ybh]g'gi Va]hhYX'h\fci [\'Hi fb]hjb'UbX'gh XYbhg'Xc'bchgYY'Hi fb]hjb g]a]'Uf]hmfYdcfhg"

5 https://bxubww.Fyei]fyaybhg

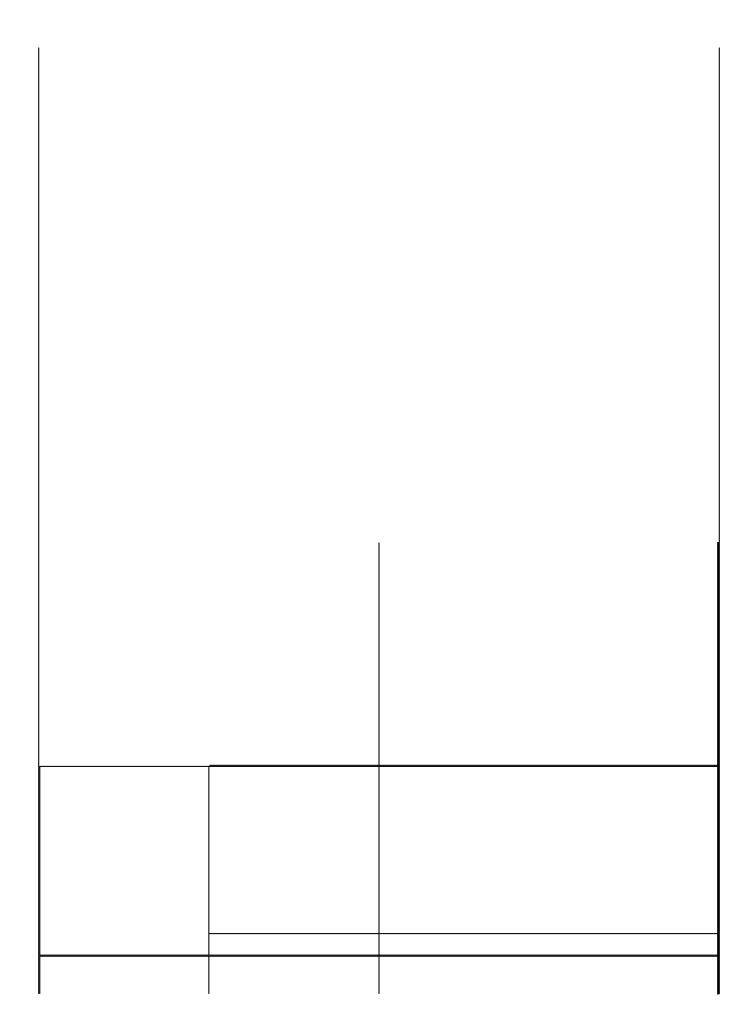
7ci fgY'GWXYXi `Y

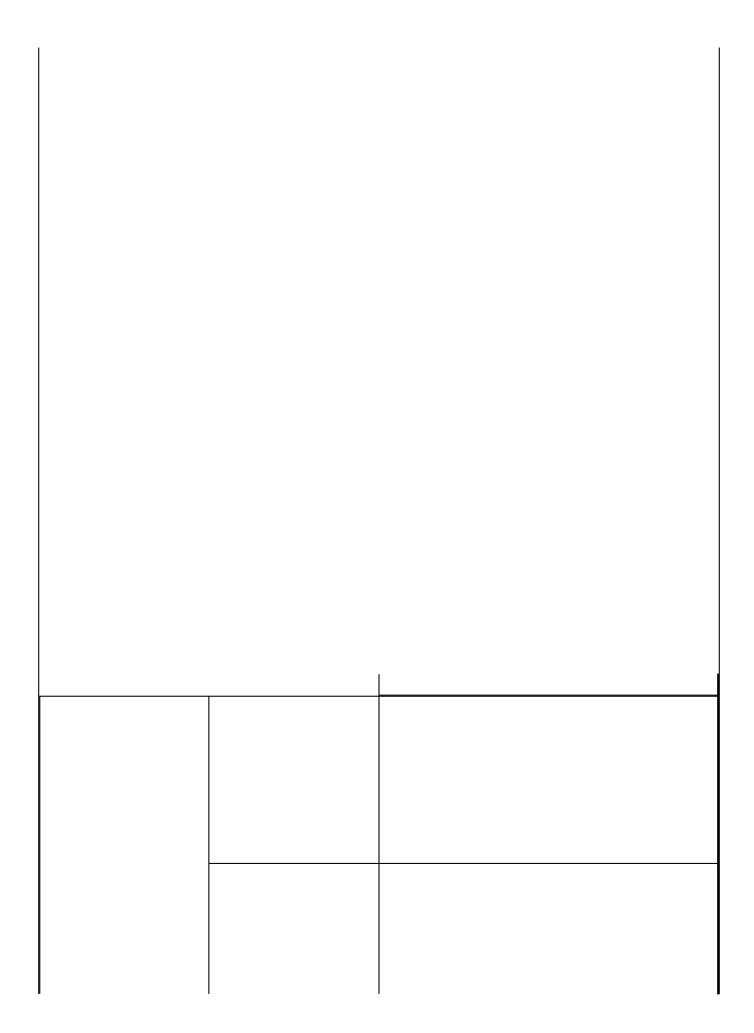
J]Yk 'WUgg'hja YhUV'Y

H]a YtUV`Y

8UHY	Hmd Y	7 cbhYbh
K YY_'%'%': YVfi Ufm!'&(: YVfi Ufm	@YWi fY	#olfcXi Wijcb'hc'h\Y'Wci fgY H\]g''YWn fY'k]'`'dfcj]XY'U'XYhU]'YX'cjYfj]Yk'cZh\Y Wci fgY'fYei]fYa Ybhgz'UggYgga Ybhgz'UbX YI dYWfUhjcbg"'H\Y'fY'Yj UbWY'cZU'Wci fgY'gi W\'Ug h\]g'hc'gcWjU'`k cf_'dfUWfJW'z'UbX'hc'gcWjU'`k cf_'Ug'U dfcZYgg]cb'k]'`'U`gc'VY'X]gW'ggYX" .
	Hi kcf]U`	H\Y`Zjfgh\U`ZcZYUW\`h ltcf]U`VYlk YYb`k YY_g`%)`k]` VY`XYX]WJhYX`hc`X]gW gg]b[`h\Y`fYei`]fYX`fYUX]b[g" H\Y`gYWbX`\U`ZcZh hcf]U`g`VYlk YYb`k YY_g`%)`k]` VY`U`cWJhYX`hc`dfYdUf]b[`Zcf`gh XYbh[fci d dfYgYbhUh]cbg"`Gh XYbhg`UfY`YbWci fU[YX`hc`Vf]b[UbmhYW\bc`c[mcf`ch\Yf`fYgci fW\g`bYW\ggUfmhc Ugg]ghih\Ya`]b`XYj Y`cd]b[`h\Y]f`dfYgYbhUh]cbg" 9UW\`k YY_`gh XYbhg`UfY`YI dYWYX`hc`Wca Y dfYdUfYX`hc`YUW\`h hcf]U``k]h\`U`ei Ygh]cbz\Wca a Ybh cf`X]gW gg]cb`hcd]W]b`fY`Uh]cb`hc`h\Y`k YY_`m fYUX]b[`gz`cf`h\Y``YWi fY`WcbhYbh'`9UW\`h hcf]U``k]`\ Wf]h]WU``mYb[`U[`Y`k]h\`k\Uhgh XYbhg`\Uj Y``YUfbhh\Uh k YY_z`UbX`h\YgY`X]gWi gg]cbg`k]```U]X`mci `hc`k

WŊWž'l





	Wci fgY'k]``'Ugg]ghh\Ya kcf_	']b'h\Y]f'fc`Y'Ug'gcW]U` 'h\Y _ c `Y Y	ħΥ 'k ci

ifh\Yf Y Y C

F Ygci fWYg

DfYgWf]VYX F Ygci fWYg

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Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Hi fb]h]b Gi Va]gg]cb

#mci YbWci bhYf'U'dfcV'Ya 'k \Yb'UthYa dr]b['rc'gi Va]hmci f'Ugg][ba Ybht\fci [\'Hi fb]r]bž'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'fl *) 'XUmg'U'mYUft'''#c'ici
UfY'i bUV'Y 'rc'gi Va]hmci f'Ugg][ba YbhXi Y'rc'U'ZJi 'hk]h\'Hi fb]r]b'mci 'a Um'Udd'mZcf'Ub'YI hYbg]cbž'Vi hmci
a i ghfYhJ]b'mci f'r]WYhbi a VYf'Zfca '9I hYfbU''Gi ddcfhfU'cb['k]h\'Ubmch\Yf'fY'Yj UbhXcW a Ybfgt'rc
]bWi XY'Ug'Yj]XYbWY 'rc'gi ddcfhmci f'YI hYbg]cb'Udd']WUh]cb'''#mci 'Ya U]''9I hYfbU''Gi ddcfhmci 'k]'`
Ui hca Uh]WJ''mfYWY]j Y'U'r]W_Yhbi a VYfž'Vi h]Zmci 'hY'Yd\cbY'mci 'k]'''bYYX'rc'gdYW]ZJWJ''mUg_'Zcf'cbY''
Hi fb]h]b'U'gc'dfcj]XYg'i dXUhYg'cb'h\Y]f'gmghYa 'gfUh' g'cb'Hk]hYf"

; YbYfU``mž'UggYgga YbhiHug_g'a i ghVY'gi Va]hhYX'Y`YVWfcb]\W)``mj]U'Y]h\Yf'Hi fb]hjb'cf'U'A ccX`Y Ugg][ba Ybh'' =b']bgHJb\W'g'k \YfY'h\]g']g'bchdcgg]V`Yž']hk]``'VY'gHJhYX'cb'mci f'\\circ i fgY'g'A ccX`Y'g]hY'k]h\ U`hYfbUhj Y'gi Va]gg]cb'XYHJ]`g''

cfi]bZcfa Uh]cbicbi\ckihcigi Va]hUgg][ba Ybhgicbi]bYij]UiA ccXiY.i\hdg.#gh XYbh'i bgk "YXi "Ui #\ck! qi Va]hUgq][ba Ybha ccXiY

5 WUXYa]W<cbYghmUbX D`U[]Uf]ga

D`U[]Uf]ga `]g`i g]b['h\Y`k cfXg`cf`]XYUg`cZch\Yfg`UbX`dfYgYbh]b['h\Ya `Ug`mci f`ck b"'=hWJb'hU_Y`a Ubm Zcfa gžZfca `XY`]VYfUhY`W\YUh]b['hc`UWW]XYbhU`mWcdm]b['Zfca `U`gci fWY'k]h\ci hUW_bck `YX[Ya Ybh'

IBGK [fcidg'd'U[]Uf]ga]bhc'h\Y'Zc``ck]b[WUhY[cf]Yg.

7 cdm]b[.'i g]b['h\Y'gUa Y'cf'j Yfmg]a]`Uf'k cfXg'hc'h\Y'cf][]bU`hYl h'cf']XYU'k]h\ci h'UW_bck `YX[]b['h\Y gci fW'cf'i g]b['ei chUh]cb'a Uf_g"'H\]g'U`gc'Udd`]Yg'hc']a U[Ygž'Ufh'UbX'XYg][b'dfcYWhgž'Ug'k Y``'Ug dfYgYbhUh]cbg'k \YfY'gca YcbY'dfYgYbhg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci h'WfYX]h'

⇒ Uddfcdf]UhY 'dUfUd\fUg]b[...7\Ub[]b['U'ZYk 'k cfXg'UbX'd\fUgYg'k \]'Y 'a cghmfYhJ]b]b['h\Y'cf][]bU` ghfi Wh fY 'UbX#cf'dfc[fYgg]cb'cZ]XYUg'cZh\Y'cf][]bU'žUbX']bZcfa Uh]cb'k]h\ci hUW_bck `YX[Ya Ybh'H\]g'U`gc Udd`]Yg']b'dfYgYbhUh]cbg'k \YfY'gca YcbY'dUfUd\fUgYg'Ubch\Yf'g']XYUg'cf'k cfXg'k]h\ci hWfYX]hUbX'hc d]YW]b['hc[Yh\Yf'ei chYg'UbX'dUfUd\fUgYg']bhc'U'bYk 'k \c`Yžk]h\ci hUddfcdf]UhY'fYZYfYbW]b["

7 c``i g]cb.'k cf_jb['k]h\ch\Yfg'Vi hdUgg]b['cZZh\Y'k cf_'Ug'U'dYfgcb'g']bX]j]Xi U``k cf_"'7 c``i g]cb'U`gc]bWi XYg'dfcj]X]b['mci f'k cf_'hc'Ubch\Yf'ghi XYbhVYZcfY'h\Y'Xi Y'XUhYžcf'Zcf'h\Y'di fdcgY'cZh\Ya d`U[]Uf]g]b['UhiUbmh]a Yž'dUm]b['Ubch\Yf'dYfgcb'hc'dYfZcfa 'Ub'UWUXYa]WhUg_ž'ghYU']b['cf'UWei]f]b[Ubch\Yf'dYfgcb'g'UWUXYa]Wk cf_'UbX'Wcdm]b[']hz'cZYf]b['hc'Wca d'YhY'Ubch\Yf'dYfgcb'g'k cf_'cf'gYY_]b[dUma YbhZcf'Wca d'Yh]b['UWUXYa]Wk cf_"

±bUddfcdf]UhY`W]hUh]cb.`7]h]b[ˈgci fWYg'k\]WX`\Uj Y`bchVYYb`fYUXžk]h\ci hUW_bck`YX[]b[`h\Y`″gYWcbXUfm″gci fWY`Zfca 'k\]WX`_bck`YX[Y`cZh\Ya`\Ug'VYYb`cVhU]bYX"

8 i d`]\WUh]cb`ffgY`Zd`U[]\Uf]ga "Ł gi Va]\h]b[`mci f`ck b`k cf_ž]b`k \c`Y`cf`]b`dUfhžk \YfY`]h\Ug`dfYj]ci g`m VYYb`dfYdUfYX`cf`gi Va]\hYX`Zcf`Ubch\Yf`UggYgga Ybhcf\Wci fgY`UhI BGK `cf`Ubch\Yf`i b]j Yfg]\m'

7 cffYWnfYZYfYbWlb['dfUWnWyg.



5 WUXYa]W±bZcfa Uhjcb

: cf'YggYbhJU`gh XYbh]bZcfa UhJcb'fY`UhJb['hc.