

MTRN3020

A cXY`b[`UbX`7 cbhfc`cZA YWUhfcb]WGmgHYa g

HYfa `CbY`##`&\$&%

GWXcc`cZA YWUbfjWU`UbX`A Ubi ZUWfj]b[`9b[]bYYfj]b[`##`I BGK `9b[]bYYfj]b[

7 ci fgY`Cj Yfj JYk

fZ *%&Ł- ' ,) ' %+- -' BGK 'Gh Xm5VfcUX'UbX'I BGK '9I WUb[Y'fZcf']bVci bX'gh XYbht

fZ *%&Ł- ' ,) '(\$- +'-GWcc`C ZWYH

H D`YUgY'bcH`hUh`hY'GWcc`C ZW`k]`bch_bck `k \Yb#Zmci fWci fgY`Wcbj Ybcf`]g'cb`WJa di g'cf Uj U]UV`Y

9a U]

[9b\[\]bYYf\]b\['Gh XYbhGi ddcfhGYfj \]Wg](#) -W ffYbhghi XYbhYbei]f]Yg

- Y"["Ybfc`a Ybždfc[fYgg]cbžWUg\ fYei YgržWci fgY`]ggi Yg'cf'dfc[fUa !fY`UhX'ei Yf]Yg

[9b\[\]bYYf\]b\['Xg gf\]U`HfU\]b\]b\[\]`-Xgi gf\]U`fU\]b\]b\[\]`ei Ygh\]cbg](#)

[I BGK 'Gh Xm5VfcUX](#) -'gh XmiUVfcUX'gh XYbhYbei]f]Yg'fZcf']bVci bX'gh XYbht

[I BGK '9I WUb\[Y](#) -'gh XYbhYI WUb[Y'Ybei]f]Yg'fZcf']bVci bX'gh XYbht

[I BGK : i h fy`Gh XYbht](#) -'dchYbh]U`gh XYbhYbei]f]Yg

- Y"["UXa]gg]cbgžZYgždfc[fUa gžWYX]hifUbgZYf

[GWcc`C ZWY](#) -'GWcc`[YbYfU`cZ]W`UXa]b]ghfU]cb`Ybei]f]Yg

- B 6. hY`fY`Yj UbhYUa g`]ghX`Uvcj Y`a i ghVY`WcbUWYX`Zcf`U`gh XYbhYbei]f]Yg

7ci fgY'8YHJ`g

7fYX]hDc]bqg`*`

Gi a a UfmicZ`h`Y'7ci fgY

H\]g'gi V`Y`W`h`Y`U`W`X`Y`g`h`Y`g`h`i`X`Y`b`h`\`c`k`'h`c`'X`Y`g`][b`'U`b`X`'X`Y`j`Y`'c`d`'W`c`b`f`c`'`g`m`g`h`Y`a`g`'j`b`'X`j`g`W`Y`h`Y`!`h`j`a`Y`'X`c`a`U`j`b`'h`U`h`W`j`b`'V`Y`'i`g`Y`X`'j`b`'a`c`h`c`b`'W`c`b`f`c`'`g`m`g`h`Y`a`g`'"`A`U`h`f`j`U`'W`c`j`Y`f`Y`X`'j`b`W`i`X`Y`g`/`F`Y`j`]g`c`b`'c`Z`W`c`b`h`j`b`i`c`i`g`!`h`j`a`Y`'W`c`b`f`c`'`g`m`g`h`Y`a`g`'U`b`X`'X`Y`g`][b`'h`c`'g`'g`i`W`'U`g`'f`c`c`h`'c`W`'g`z`'6`c`X`Y`'a`Y`h`c`X`g`'U`b`X`'@`U`d`'U`W`'f`U`b`g`z`c`f`a`'"`G`H`U`V`]'m`z`'g`d`Y`Y`X`'c`Z`f`Y`g`d`c`b`g`Y`'U`b`X`U`W`W`f`U`W`h`'7`c`b`f`c`'`Y`f`'X`Y`g`][b`'i`g`]b`[/`f`c`c`h`'c`W`'g`'a`Y`h`c`X`z`X`]f`Y`W`h`i`U`b`X`'j`b`X`]f`Y`W`h`i`U`b`U`m`h`]W`U`'a`Y`h`c`X`g`'U`b`X`'V`c`X`Y`'a`Y`h`c`X`g`'"`C`V`g`Y`f`j`U`V`]'m`z`'W`c`b`f`c`'`U`V`]'m`i`'G`H`U`V`'Y`g`h`j`a`U`h`c`f`g`'U`b`X`'X`Y`g`][b`'c`Z`c`V`g`Y`f`j`Y`f`g`"

7ci fgY'5]a g

H\]g`W`c`i`f`g`Y`'k`j`"'`[`j`Y`'m`c`i`'U`'h`c`f`c`i`[`\`i`b`X`Y`f`g`h`U`b`X`]b`['c`Z`W`c`a`d`i`h`f`!`W`c`b`f`c`'`Y`X`'g`m`g`h`Y`a`g`'"`#`g`'W`c`f`Y`'W`c`b`h`Y`b`h`W`j`b`V`Y`'V`f`c`U`X`'m`W`j`h`Y`[c`f`j`n`Y`X`]'b`h`c`'a`U`h`Y`a`U`h`]W`U`'a`Y`U`b`g`'c`Z`a`c`X`Y`"'`b`['A`Y`W`U`f`c`b`]W`G`m`g`h`Y`a`g`z`a`c`X`Y`'j`U`]X`U`h`c`b`z`X`Y`g`][b`'c`Z`X`]'j`h`U`'W`c`b`f`c`'`Y`f`g`'i`g`]b`['U`j`U`f`]Y`m`i`c`Z`X`]Z`Y`f`Y`b`h`a`Y`h`c`X`g`'U`b`X`'h`Y`'j`a`d`'Y`a`Y`b`h`U`h`c`b`'c`Z`W`c`b`f`c`'`Y`f`g`'c`b`f`Y`U`!'`Z`Y`'g`m`g`h`Y`a`g`'"`H`Y`'g`m`g`h`Y`a`g`'V`Y`]b`['a`c`X`Y`'`Y`X`'U`b`X`'W`c`b`f`c`'`Y`X`'U`f`Y`'U`f`[Y`'m`i`a`c`h`c`b`'W`c`b`f`c`'`g`m`g`h`Y`a`g`"

H`Y`'W`c`i`f`g`Y`'\`U`g`'U`V`c`f`U`h`c`f`m`Y`l`d`Y`f`j`a`Y`b`h`g`f`j`l`c`'a`c`X`Y`'U`b`'j`b`j`Y`f`h`X`'d`Y`b`X`i`'i`a`'g`m`g`h`Y`a`'U`b`X`'h`c`'X`Y`g`][b`'U`W`U`g`g`]W`U`'W`c`b`f`c`'`Y`f`f`j`l`c`'X`Y`g`][b`'X`]'j`h`U`'W`c`b`f`c`'`g`m`g`h`Y`a`g`'Z`c`f`g`d`Y`Y`X`'U`b`X`'d`c`g`]h`c`b`'W`c`b`f`c`'`f`][g`"

H`Y`'W`c`i`f`g`Y`g`'j`b`'h`Y`'A`Y`W`U`f`c`b`]W`g`'X`j`g`W`j`d`'j`b`Y`'U`f`Y`'V`i`'j`h`i`d`'c`b`'Z`c`i`f`X`]Z`Y`f`Y`b`h`U`f`Y`U`g`.'a`Y`W`U`b`]W`U`'X`Y`g`][b`z`W`c`a`d`i`h`j`b`[z`Y`'Y`W`f`c`b`]W`g`'U`b`X`'a`'j`W`c`d`f`c`W`g`g`c`f`g`z`'U`b`X`'W`c`b`f`c`'`g`m`g`h`Y`a`g`'"`H`Y`'U`h`f`h`'h`f`Y`Y`'U`f`Y`U`g`'U`f`Y`'j`b`h`f`f`Y`'U`h`X`z`'U`b`X`'h`c`]g`'W`c`i`f`g`Y`'Z`c`f`a`g`'U`'W`c`b`f`c`'`Y`f`g`h`c`b`Y`'c`Z`h`Y`'z`'b`X`U`a`Y`b`h`U`'W`c`i`f`g`Y`g`'c`b`'k`'\`j`W`'h`Y`'A`Y`W`U`f`c`b`]W`9`b`['j`b`Y`Y`f`j`b`[W`c`i`f`g`Y`'U`h`l`'B`G`K`'j`g`'V`i`'j`h`i`d`c`b`'"`5`'h`c`f`c`i`[`\`i`b`X`Y`f`g`h`U`b`X`]b`['c`Z`h`Y`'W`c`b`f`c`'`c`Z`X`n`b`U`a`'j`W`U`'a`Y`W`U`b`]W`U`'g`m`g`h`Y`a`g`'h`c`'U`W`X`]Y`j`Y`'X`Y`g`]f`Y`X`'a`c`h`c`b`g`'j`g`'Y`g`g`Y`b`h`U`'Z`c`f`h`Y`'X`Y`g`][b`'U`b`X`'X`Y`j`Y`'c`d`a`Y`b`h`c`Z`U`b`m`g`c`d`]\`g`h`]W`U`h`Y`X`'A`Y`W`U`f`c`b`]W`G`m`g`h`Y`a`'"`l`g`j`b`['h`Y`'z`'b`X`U`a`Y`b`h`U`'W`U`g`g`]W`U`'W`c`b`f`c`'`g`m`g`h`Y`a`'_'b`c`k`'Y`X`[Y`[U`]b`Y`X`'j`b`'h`Y`'h`]f`X`'m`Y`U`f`z`'h`l`j`g`'W`c`i`f`g`Y`'V`i`'j`X`g`'m`c`i`f`_'b`c`k`'Y`X`[Y`'c`b`'X`Y`g`][b`]b`['U`b`X`'j`a`d`'Y`a`Y`b`h`j`b`[W`c`a`d`i`h`f`!`W`c`b`f`c`'`Y`X`'g`m`g`h`Y`a`g`'"`7`c`b`f`c`'`g`m`g`h`Y`a`g`'d`f`c`j`]X`Y`'U`'a`Y`h`c`X`]W`U`'k`U`m`i`c`Z`W`U`f`f`m`j`b`['c`i`h`h`Y`'a`c`h`c`b`'W`c`b`f`c`'`h`U`h`U`'g`c`'b`Y`Y`X`g`'d`f`c`[f`U`a`a`]b`['U`b`X`W`c`a`d`i`h`j`b`['"`5`g`'g`i`W`'h`Y`'W`c`b`f`c`'`V`i`h`c`b`g`'Z`c`a`'h`l`j`g`'W`c`i`f`g`Y`'h`c`'h`Y`'A`Y`W`U`f`c`b`]W`9`b`['j`b`Y`Y`f`j`b`['X`Y`[f`Y`Y`'d`f`c`[f`U`a`U`f`Y`'Y`g`g`Y`b`h`U`'U`b`X`'j`'j`h`U`'"`

7c`i`f`g`Y`'5]a`g`'g`'j`j`Y`'f`h`Y`'X`Y`'\`Y`'

5Z`Y`f`g`i`W`Y`g`g`z`'m`W`c`a`d`'Y`h`j`b`['h`l`j`g`'W`c`i`f`g`Y`z`m`c`i`'g`l`c`i`'X`'V`Y`'U`V`Y`'h`c`.

@YUfb]b['Ci hWca Y	95`GHJ[Y`%7`ca`d`Y`h`b`W`Y`g`

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Udd`jWU]cb`Ybj]fcb a YbhUbX`VY`UV`Y`hc`ja d`Ya YbhH`Y`XYg][bYX W`bfc`gmghYa g"	

H\Y`YI dYfJa YbH`W`bH`bhUbX`hY`UggcW]UHX`j]XYc`W`bH`bhk]`Y`d`h`Y`gh`XYbH`UddfYW]UH`ck`W`bfc`gmghYa g`k`cf`_`" `U`[fci d`gYH]b[z`gh`XYbH`k]`VY`UV`Y`hc`cVgYfj Yz`ck`W`bfc`Yfg`cZ`h`Y]f`dYfYg`cdYfUH`k]h`X]ZYfYbhW`bfc`Yf`dUfUa YH`fg`XYa cbghU]b[`X]ZYfYbhVY`Uj]ci fg"

HYUWX]b['GhfUH[]Yg`

HYUWX]b[`cZ`h`g`W`i`fgY`]g`h`fci [`A]W`cgcZiHYUa `7`Uggfcc a g`H\Y`a U`cf]hmcZ`h`Y`Y`W`i`fY`W`bH`bh]g Uj U]UV`Y`Ug`dFY`fY`W`fYX`j]XYcg`H\Y`gh`XYbH`UfY`YI dYW`X`hc`k`UH`X`h`Y`gY`dFY`fY`W`fYX`j]XYcg`UbX`W`ca d`Y`H`a]bcf`ei]nnYg`VY`ZcY`h`Y`Y`W`i`fY`h`a`Y`H\Y`a]bcf`ei]nnYg`k]`Uk`UfX`a`Uf`g`"5Z`Y`f`k`UH`X`]b[`h`Y`j]XYc`W`bH`bh`h`Y`gh`XYbH`UfY`U`gc`YI dYW`X`hc`UH`Y`a`dh`h`Y`g`Ua`d`Y`dfcV`Ya`g`[]j`Yb`hc`h`Ya`VY`ZcY`h`Y`Y`W`i`fY`Z`k`X`k]`VY`X]gW`ggYX`UbX`k`cf`_`YX`ci`h`Xi`f]b[`h`Y`Y`W`i`fY`g`"8i`f]b[`h`Y`Y`W`i`fY`h`a`Y`U`Vf]YZ`YI d`UbU]cb`cZ`h`Y`k`YY`_`m`W`bH`bh]g`U`gc`[]j`Yb`UbX`h`Y`b`gh`XYbH`[`Yh`Ub`c`ddc`f`h`b]h`mk`cf`_`ci`h`g`Ua`d`Y`dfcV`Ya`g`"Hi`hc`f]U`W`UggYg`k]`U`gc`h`U`_`Y`d`U`W`]b`A]W`cgcZiHYUa`g`W`Uggfcc a g`@UV`c`f`U`h`c`f`m`YI`Y`f`W`]g`Y`g`k]`VY`YI d`U]bYX`UbX`X`U`h`g`Y`h`g`Z`c`f`]b`X]j]Xi`U`gh`XYbH`k]`VY`dfc`j]XYX`"

H\Y`h`i`hc`f]U`g`Ygg]cbg`UfY`XYg][bYX`hc`Y`d`m`ci`i`gY`hc`c`g`gi`W`X`Ug`A`Uh`UV`hc`gc`j`Y`W`ca`d`YI`W`bfc`gmghYa`dfcV`Ya`g`" `h`]g`YggYbH]U`h`Uh`m`ci` `U`j`Y`U`W`W`gg`hc`A`Uh`UV`Xi`f]b[`U`cb`]bY`g`Ygg]cbg`gc`h`Uh`m`ci` `W`Ub`a`U]bH]b`U`g`Y`Ua`Y`gg`W`bH]bi`U]cb`cZ`m`ci`f`Y`Uf]b["H\Y`dfc`j]g]cb`cZ`h`Y`Y`Uf]b[`Ybj]fcb a Ybh]b`h`Y`cb`]bY`h`i`hc`f]U`g`Ygg]cbg`]g`hc`Z`W`]h`U`H`Y`XY`j`Y`cd]b[`W`b`Z`XY`b`W`]b`a`UbU[]b[`XYg][]b`h`U`g`_`Ug`d`fc`Y`W`g`"H\Y`W`bH`bh`XY`]j`Y`fYX`]b`h`Y`Y`W`i`fY`g`k]`VY`i`gYX`hc`XYg][b`W`bfc`Y`fg`UbX`h`Y`b`hc`Udd`m`h`Ya`hc`W`bfc`a`cXY`g`cZ`fYU`!]Z`gmghYa`g`"

5XX]h]cbU`7`ci`fgY`b`Z`c`fa`U`h]cb`

H\Y`gh`XYbH`k`l`c`W`ca`Y`hc`Z`ck`h`h`g`W`i`fgY`UfY`f`Yei]fYX`hc`U`j`Y`d`f]c`f`_`b`ck`YX[Y`Z`ca`A`A`5B`&\$\$ @]bYUf`GmghYa`g`UbX`7`cb`fc`cf`U`g]a]Uf`W`i`fgY`"

H\]g`]g`U`*`i`b]hcZ`W`YX]h`f`c`7`E`W`i`fgY`UbX`]b]c`j`Yg`" `l`ci`fg`dYf`k`YY`_`f`h`#`E`c`Z`g`W`X`Y`Xi`YX`cb`]bY`W`bH`U`W`H\Y`bc`fa`U`k`cf`_`c`UX`YI dYW`U]cbg`cZ`U`gh`XYbhUfY`Udd`fci]a`UH`m`&) `l`ci`fg`dYf`h`fa`Z`c`f`Y`U`W`i`C`7`z`]b`W`i`X]b[`W`Ugg`W`bH`U`W`i`l`ci`fg`z`c`h`Y`f`Y`Uf]b[`U`W`]j]h`Y`g`z`d`f`Y`d`U`f`U]cb`UbX`h`a`Y`gdY`b`h`c`b`U`UggYggUV`Y`k`cf`_`"

M`ci`g`l`ci`X`U]a`hc`gdY`b`X`UV`ci`h`%` `h`#`cb`h`h`g`W`i`fgY`"H\Y`U`X`X]h]cbU`h`a`Y`g`l`ci`X`VY`gdY`bh]b`a`U`_]b[gi`fY`h`Uh`m`ci`i`bXY`f`h`UbX`h`Y`Y`W`i`fY`a`UH`f]U`z`W`ca`d`Y`h]b[`h`Y`g`Y`h`Ugg][ba`Y`b`h`g`z`Z`f`h`Y`f`Y`UX]b[z`UbX`fY`j]b[`Z`c`f`U`b`m`YI`Ua`]b`U`h]cbg`"

5ggYgga Ybh

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5ggYgga YbhHUg_	K Y][\h	8i Y'8UH	Gh XYbh@YUfb]b[Ci hWta Yg'5ggYggYX
E i]n'. '@YWh fY'J]XYc E i]nnYg'	;%\$	Bch5dd']WUVY	
E i]n'. 'A Ucf'E i]n'DUfh%	;%\$	H65	%ž&
@UV'%. 'bj YfhYX'DYbXi 'i a 9I dYf]a Ybh	;%\$	&- #\$(#&\$&%%) - 'DA	%ž&
@UV'&. 'GdYXX'7 cbffc` 9I dYf]a Ybh	%)	%* #\$(#&\$&%%) - 'DA	%ž&ž'
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8YHU]g.H\Y'ghi XYbhtg'k]''VY'fYei]fYX'hc'XYg][b'U'Wcbfbc''Yf'UbX'ja d'Ya Ybh]hcb'Ub'UW'i U'YI dYf]a YbHU' f][''H\Y'YI dYf]a YbHU'f]['Wcbg]ghg'cZUb'bj YfYX'dYbXi 'i a 'UbX'hY'Wcbfbc''gmghYa g'XYg][bYX'VmYUWX]bX]j]Xi U'gh XYbh]g'YI dYWYX'hc'ac'X'hY'dYbXi 'i a 'ghYUXmk '\JY'hY'WUfhcb'k '\JW'h]g'a ci bhYX'a cj Yg" H\Y'XUH'Wc''YWYX'ZcfYUWX'gh XYbhk]''VY'a UXY'Uj U]UV'Y'Zcf'hYa 'UbX'hYma i ghWca d'YH'U'fYdcfH'

Gi Va]gg]cb'bchYg. 'Gh XYbhtg'a i ghgi Va]hU'fYdcfH'Ug'dYf'hY'YI dYf]a YbhgdYWZ]W]hcb"

Hi fb]h]b'gYH]b[. 'H\]g'Ugg][ba Ybh]g'gi Va]hYX'h'fci [\ 'Hi fb]h]b'UbX'gh XYbhtg'Xc'bchgYY'Hi fb]h]b g]a]Uf]mifYdcfHg"

5ggYgga Ybh(. '@UV'&. 'GdYXX'7cbfbc''9I dYf]a Ybh

GHUfhXUH. 'H\Y''UVcfUhc'fmWUggYg'k]''HU_Y'd'UW'Xi f]b['k YY_+'

8YHU]g.H\Y'ghi XYbhtg'k]''VY'fYei]fYX'hc'XYg][b'U'Wcbfbc''Yf'UbX'ja d'Ya Ybh]hcb'Ub'UW'i U'YI dYf]a YbHU' f][''H\Y'YI dYf]a YbHU'f]['Wcbg]ghg'cZU'gdYXX'Wcbfbc''gmghYa 'UbX'hY'Wcbfbc''gmghYa g'XYg][bYX'VmYUWX]bX]j]Xi U'gh XYbh]g'YI dYWYX'hc'a U]b]b]b'hY'gdYXX'cZ'hY'gmghYa 'XYgd]H'c'UX'j Uf]U]hcbg" H\Y'XUH'Wc''YWYX'ZcfYUWX'gh XYbhk]''VY'a UXY'Uj U]UV'Y'Zcf'hYa 'UbX'hYma i ghWca d'YH'U'fYdcfH'

Gi Va]gg]cb'bchYg. 'H\Y'ghi XYbhtg'a i ghk f]H'U'fYdcfH'Ug'dYf'hY'dcg]h]cb'Wcbfbc''YI dYf]a YbhgdYWZ]W]hcb

Hi fb]h]b'gYH]b[. 'H\]g'Ugg][ba Ybh]g'gi Va]hYX'h'fci [\ 'Hi fb]h]b'UbX'gh XYbhtg'Xc'bchgYY'Hi fb]h]b g]a]Uf]mifYdcfHg"

5ggYgga Ybh). 'E i]n'. 'A U'cf'E i]n'DUfh&

GHUfhXUH. '\$- #\$(#&\$%\$*.\$\$.DA

8YHU]g.H\]g'ei]n'k]''VY'WcbXi WYX'j'b'k YY_ , : f]XUmVYHk YYb'*'UbX'+da ''H\]g'jg'U'Wca di 'gcfmei]n UbX'k]''Wc] Yf'U''WcbHbhWc] YfYX'j'b'k YY_g ('!' + f]bW'X]b['a UH'f]U'dfYgYbhYX'j'b'dfY! YW'i fY'j]XYcgZ 'YW'i fY'j]XYcgZ'h'hc'f]U'WUggYg'UbX'UV'WUggYg'jZUbmL'H\Y'WcbX]h]cbg'i bXYf'k '\JW'h\]g'ei]n'k]''VY' WcbXi WYX'k]''VY'Ubbci bW'X'WcgYf'hc'hY'ei]n''

5ggYgga Ybh*. '@UV' . 'Dcg]h]cb'7cbfbc''9I dYf]a Ybh

GHUfhXUH. 'H\Y'YI dYf]a Ybhk]''HU_Y'd'UW'j'b'k YY_-'

8YHU]g.H\Y'ghi XYbhtg'k]''VY'fYei]fYX'hc'XYg][b'U'Wcbfbc''Yf'UbX'ja d'Ya Ybh]hcb'Ub'UW'i U'YI dYf]a YbHU' f][''H\Y'YI dYf]a YbHU'f]['Wcbg]ghg'cZU'dcg]h]cb'Wcbfbc''gmghYa 'UbX'hY'Wcbfbc''gmghYa g'XYg][bYX'VmYUWX]bX]j]Xi U'gh XYbh]g'YI dYWYX'hc'dcg]h]cb'U'f'c]U]h]b['Ufa 'UWV'fUH'm'H\Y'XUH'Wc''YWYX'ZcfYUWX'gh XYbh k]''VY'a UXY'Uj U]UV'Y'Zcf'hYa 'UbX'hYma i ghWca d'YH'U'fYdcfH'

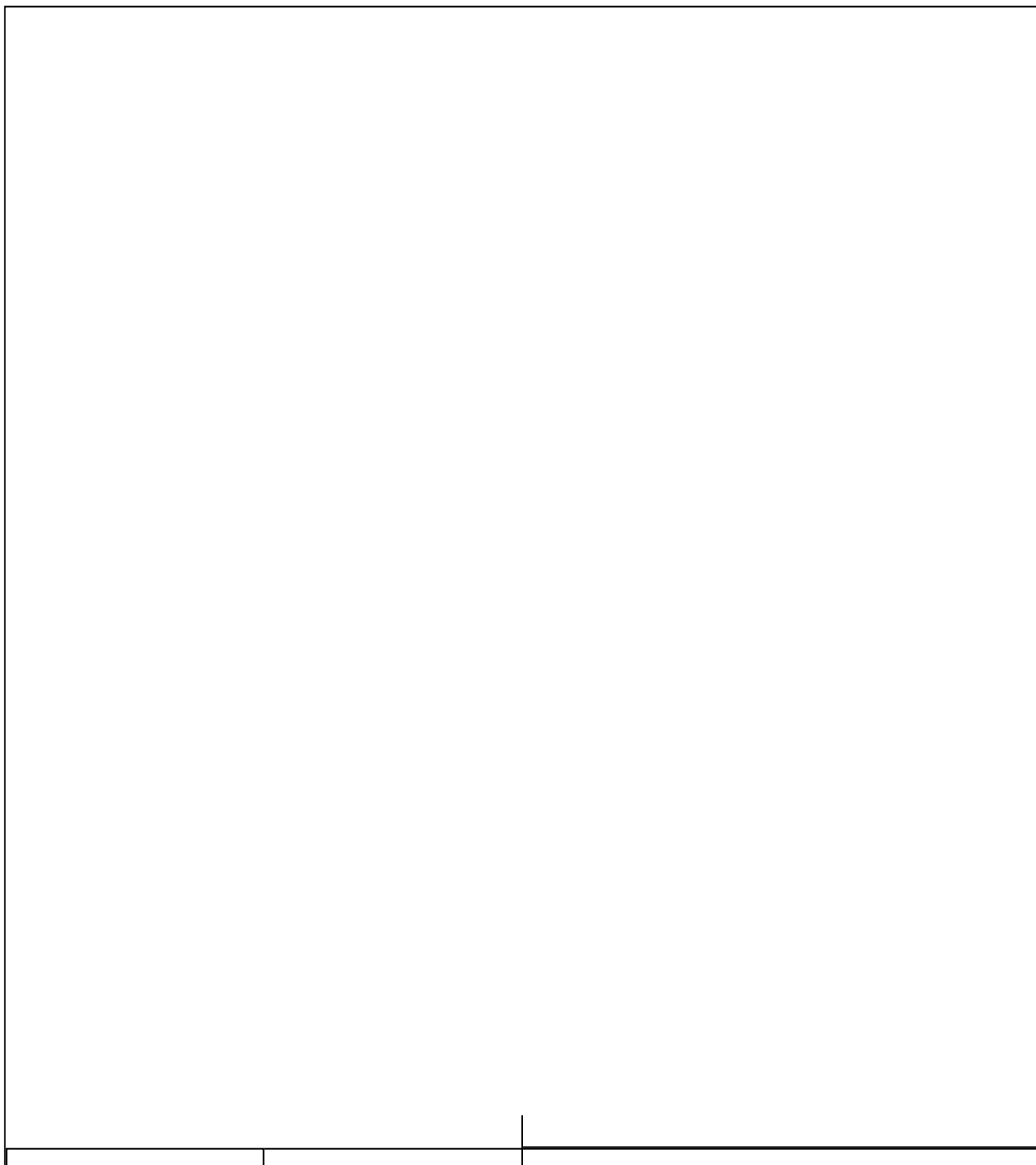
Gi Va]gg]cb'bchYg. 'H\Y'ghi XYbhtg'a i ghk f]H'U'fYdcfH'Ug'dYf'hY'dcg]h]cb'Wcbfbc''YI dYf]a YbhgdYWZ]W]hcb

Hi fb]h]b'gYH]b[. 'H\]g'Ugg][ba Ybh]g'gi Va]hYX'h'fci [\ 'Hi fb]h]b'UbX'gh XYbhtg'Xc'bchgYY'Hi fb]h]b g]a]Uf]mifYdcfHg"

5ggYgga Ybh+. 'E i]n'. 'A U'cf'E i]n'DUfh'

GHUfhXUH. '& #\$(#&\$%\$*.\$\$.DA

8YHJ]g.H\]g'ei]n'k]`VY`WcbXi W\X'cb`K YY_`%\$: f]XUmVYtk YYb`*`UbX'+`da "`H\]g']g`U`Wca di `gcfmei]n
UbX'k]`Wcj Yf`U`WcbHybhWcj YfYX']b`k YY_g', !`%\$ f]bWi X]b[`a Uhf]U`dfYgYbhYX']b`dfY!`YWi fY`j]XYcgz
`YWi fY`j]XYcgz`h hf]U`WUggYg`UbX`UV`WUggYg]ZUbmL`H\Y`WcbX]hcbg'i bXYf`k \]W\`h\]g'ei]n'k]`VY
WcbXi W\X'k]`VY`Ubbci bW\X`WcgYf`h`h\Y`ei]n`



K YY_- . %&'5df]'! '%* 5df]`	5ggYgga Ybh	K YY_- 'A]bcf'ei]n
	Hi h@UV	Dcg]hcb`7 cbffc`9I dYf]a Ybh
	@YWhi fY	≠X]fYWhi8Yg][b.`8]gWYH`7 cbffc`Yf`8Yg][b`l` g]b[

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

DfY`fYwcfXYX`Ywfi fY`j]XYcg`UbX`Ywfi fY`bchYg`k]`VY`a UXY`Uj U]UV`Y`cb`A ccX`Y"

F YWca a YbXYX`F Ygci fWg

H\Y`Zc`ck]b[`hYI hVcc_g`a UmVY`i gYX`Zcf`fYZYfYbW"

%`8cfgYmž">"ž"7 cbh]bi ci g`UbX`8]gWfYh`7 cbfrc`GmghYa g"žA W fUK`<]`
&" ; c`hYbž">"UbX`5"J Yfk Yfž"7 cbfrc`GmghYa `8Yg][b`UbX`G]a i `Uh]cb"A W fUK`<]`

7ci fgY`9j U`i Uh]cb`UbX`8Yj Y`cda Ybh

: YXVUW`cb`hY`Wci fgY`]g`[U`hYfYX`dYf]cX]W`mi g]b[`j Uf]ci g`a YUbgž]bW` X]b[`hY`I B G K
a m9I dYf]YbW`dfcW`ggž]bZcfa U`X]gW`gg]cb`]b`hY`Z]bU`WUgg`Zcf`hY`Wci fgYž`UbX`hY`GW`cc`g
Gh XYbh`GHJZa YH]b[g" Mci f`ZYXVUW`]g`hU`Yb`gYf]ci g`nž`UbX`Wcb]bi U`]a dfcj Ya Ybhtg`UfY`a UXY`hc`hY`
Wci fgY`VUgYXž]b`dUf]ž`cb`gi W`ZYXVUW`"

h`h]g`Wci fgYž`fYW`bh]a dfcj Ya Ybhtg`fYgi`h]b[`Zca`ghi XYbhZYXVUW`]bW`i XY`Wca d`Yh`X][]hU`i d`]h]b[`cZ`
hY`Wci fgY"

@UVcfUhcfmK cf_g\cd`hZcfa Uh]cb

5`UVcfUhcfmWUggYg`k]`hU`Y`d`UW`]b`F cca`&\$(`cZK`])g`5bbYI`"

Gi Va]gg]cb'cZ5ggYgga YbhiHUg_g

5ggYgga Ybhgi Va]gg]cb'UbX'a Uf_]b['Wf]hYf]U

G\ci 'X'hLY'Wci fgY'\Uj Y'Ubmbcb!Y'YWfcb]WUggYgga Ybhgi Va]gg]cbž'hLYgY'g\ci 'X'\Uj Y'U'ghUbxUfX
GWkcc'Wcj Yf'g\YYH'

5`gi Va]gg]cbg'UfY'YI dYWYX'hc'VY'bYUhbX'WYUfmgYhici H'Mci f'fYgi 'hg'UfY'hLY'd]bbUWY'cZU`mci f'\UfX
k cf_'UbX'g\ci 'X'VY'hYUhx'k]h'Xi Y'fYgdYWf'DfYgYbh]b['fYgi 'hg'WYUfm[]j Yg'hLY'a Uf_Yf'hLY'VYghWUbxWY
cZi bXYfgtUbx]b['mci f'a YhcxX/Yj Yb']ZhLY'bi a Yf]WU'fYgi 'hg'UfY']bVc'ffYWf'

A Uf_]b[[i]XY']bYg'Zcf'Ugg][ba Ybhgi Va]gg]cbg'k]`VY'dfcj]XYX'UhLY'gUa Y'hja Y'Ug'Ugg][ba YbhXYH]g
hc'Ugg]ghk]h'a YYh]b['UggYggUV'Y'fYei]fYa Ybhg'Gi Va]gg]cbg'k]`VY'a Uf_YX'UWwcfX]b['hc'hLY'a Uf_]b[
[i]XY']bYg'dfcj]XYX"

@UHY'dc`]Wm

K cf_gi Va]hYX'UH'k]h'ci hUb'Uddfcj YX'YI hYbg]cb'Vm'hLY'Wci fgY'Wc'cfX]bUhc'f'cf'XY'Y[UHYX'Ui h'cf]hm]g
gi V'YWihc'U'UH'dYbU'micZ&\$'dYfW'bhf&\$i' E'cZ'hLY'a U[]a i a 'a Uf_'dcgg]V'Y'Zcf'hUhUggYgga Ybh]hYa ž
dYf'WU'YbXUf'XUm'

HLY'UH'dYbU'mi]g'Udd'YX'dYf'WU'YbXUf'XUm]bWi X]b['k YY_YbXg'UbX'di V]W\c'XUmg'U'hUhLY
UggYgga Ybh]g'c] YfXi Y''HLYfY']g'bc'dfc!fUfU'cZ'hLY'UH'dYbU'miZcf'gi Va]gg]cbg'a UXY'dUfhk Um'h'fci [\ 'U
XUm'

K cf_gi Va]hYX'UZ'Yf'hLY'XYUX']bY'Zcf'UVgc'i hY'ZU]']g'bc'hUWwY'dhYX'UbX'U'a Uf_'cZnYfc'k]`VY'Uk UfXYX
Zcf'hUhUggYgga Ybh]hYa "

: cf'gca Y'UggYgga Ybh]hYa gžU'UH'dYbU'mia UmbchVY'Uddfcdf]UH''HLYgY'UfY'WYUfm]bX]WUhx'']b'hLY
Wci fgY'ci h]bYž'UbX'gi W'UggYgga Ybhg'fYW'j Y'U'a Uf_'cZnYfc']ZbchWca d'YhX'Vm'hLY'gdYW]Z'YX'XUH''
9I Ua d'Yg']bWi XY.

% K YY_'micb']bY'hYgh'cf'UVcfUhc'fmik cf_'k cff'h'U'ga U'dfc'dc'f]cb'cZ'hLY'gi V'YWia Uf_ž'cf
&' C b']bY'ei]nnYg'k \YfY'Ubgk Yfg'UfY'fY'UgYX'hc'gfi XYbhg'cb'Wca d'Yh]cbž'cf
' " DfcZ'gg]cbU'UggYgga YbhiUg_gž'k \YfY'hLY']bhYbh]cb]g'hc'WYUHY'Ub'Ui hLYbh]WUggYgga YbhihUh
 \Ug'Ub'UVgc'i hY'gi Va]gg]cb'XUH'ž'cf
(" DUgg# U]'UggYgga YbhiUg_g"

9I Ua]bUH]cbg

Mci 'a i ghVY'Uj U]'UV'Y'Zcf'U''ei]nnYgž'hYgh'UbX'YI Ua]bUH]cbg": cf'Wci fgYg'hUh\Uj Y'Z]bU'YI Ua]bUH]cbgž
hLYgY'UfY'\Y'X'Xi f]b['hLY' b]j Yfg]hmYI Ua]bUH]cb'dYf]cXg. : YVfi UfmZcf'Gi a a Yf'HYfa žA Um'Zcf'Hž
5i [i ghZcf'Hž'UbX'bcj Ya VYf#8YW'a VYf'Zcf'H' "

D'YUg'Y'j]g]ha m' BGK 'Zcf'Dfcj]g]cbU'9I Ua]bUH]cb'hja YHUV'Y'di V]g\XUH'g": cf'Z'f'hLYf']bZcfa U]cb'cb
YI Ua gž'd'YUg'Y'gY'hLY'9I Ua_g'k YVdU[Y"

GdYW]U'7cbg]XYfUH]cb

žmci '\Uj Y'YI dYf]YbW'X'Ub']bYgg'cf'a]gUXj Ybhi fY'VYmcbX'mci f'Wc'bfcc'hUhk]`]bhYfZ'fY'k]h'mci f'

UggYgga YbhdYfZcfa UbWžmci 'UfY'Y'[]V'Y'hc'Udd'mZcf'GdYWU'7 cbg]XYfUhc'b'df]cf'hc'gi Va]h]b['Ub
UggYgga Ybhcf'g]h]b['Ub'YI Ua "

I BGK 'bck '\Ug'U': [Jhrc'G\]h#Gi Va \]hfi_Yžk \\]](#)W'a YUbg'hUh]Zmci 'UhtYa dhUb'YI Ua 'cf'gi Va]hU'd]YW'cZ
UggYgga Ybhž'mci 'UfY'XYWUf]b['mci fgY'Z]hYbci ['\ 'hc'Xc'gc'UbX'W]bbch'Uhtf'Udd'mZcf'GdYWU'
7 cbg]XYfUhc'b"

: cf'XYHU]g'cZUdd'm]b['Zcf'GdYWU'7 cbg]XYfUhc'b'UbX'W'cbX]h]cbg'Zcf'hY'Uk UfX'cZgi dd'Ya YbhUfm
UggYgga Ybhž'd'YUg'gYY'hY'j]bZcfa Uhc]b'cb'I BGK 'g' [GdYWU'7 cbg\]XYfUhc'b'dU\[Y"](#)

D'YUgY'bc'hY'hUhighi XYbhg'k]'bchVY'fYei]fYX'hc'dfcj]XY'UbmXcW a YbhUfmYj]XYbW'hc
gi ddcfhiUVgYbW'g'Zca 'UbmWUggYg'a]ggYX'VYWU]i gY'cZ7CJ -8!%- 'di V']W\YU'h'a YUgi fYg'gi W'Ug
]gc'Uh]cb" I BGK 'k]'bchVY'j]bg]gh]b['cb'a YX]W'W'f]h]W]hYg'Zca 'UbmcbY'XYYa YX'hc'VY'U'dcg]h] Y'WUgYž
cf'k \Yb'hYm\Uj Y'fYV'j YfYX" 'Gi W'W'f]h]W]hYg'UfY'X]Z]W'h'hc'cVHU]b'UbX'di hUb'i bbYW'ggUfm]gh]U]b'cb
gh XYbhg'UbX'a YX]W'ghUZZ'

5dd']W]h]cbg'Zcf'gdYWU'W'cbg]XYfUhc'b'k]'VY'fYei]fYX'Zcf'UggYgga YbhUbX'dUfh]W]dUhc'b'UVgYbW'g'—
Vi hbc'XcW a YbhUfmYj]XYbW'Zcf'7CJ -8 %-]'bYgg'cf']gc'Uh]cb'k]'VY'fYei]fYX"

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

I BGK `Ug`Ub`cb[c]b[`Wca a]ha Ybhlc`ZcghYf]b[`U`W`hi fY`cZ`YUfb]b[`]bZcfa YX`VmiUWUXYa]W]bhY[f]m`5`
I BGK `gh`XYbhg`Uj`Y`U`fYgdcbg]V`]mhc`UX`YfY`hc`h`g`df]bW]d`Y`cZUWUXYa]W]bhY[f]m`D`U[]Uf]ga
i bXYfa]bYg`UWUXYa]W]bhY[f]m]UbX`]g`bchlc`YfUHX`UhI BGK "`B`SY[Sde_ SfG@E I [e VWX` VW`Se ge[Y
fZWi`ad/e ad[VWSe aXafZW`S` V bSee[Y fZW_ aXSe kagdai ` ž

D`U[]Uf]ga `]g`U`mdY`cZ]bhY`YW`i U`h`YZ`h`h`W]b`hU`_Y`a UbmiZcfa gžZca `XY`]VYfUHX`WX`YU]b[`hc`UWUXYbH`m
W`dm]b[`Zca`U`gci fW`k]h`ci hUW`bck`YX[Ya`Ybh`I BGK `Ug`dfcXi`WX`U`k`YVg]h`k]h`U`k`YU`h`cZ
fYgci fW`g`hc`gi ddcfghi`XYbhg`hc`i bXYfghUbX`UbX`Uj`c]X`d`U[]Uf]ga ž]]g]h`[gh`XYbh`i`bgk`"YX`i`"U`i`#`d`U\[\]Uf\]ga`"](#)
H`Y`@YUfb]b[`7`YbhY`Ugg]gh`gh`XYbhg`k]h`i bXYfghUbX]b[`UWUXYa]W]bhY[f]m]UbX`ck`bchlc`d`U[]Uf]gY"
H`YmiU`gc`lc`X`k`cf_g`cdg`UbX`W]b`Y`d`gh`XYbhg`cbY!cb!cbY"

Mci`UfY`U`gc`fYa]bXYX`h`UhWfYZ`h`ja`Y`a`UbU[Ya`Ybh]g`Ub`ja`dcf]UbhdUf]hcZghi`XmiUbX`cbY`cZ`h`Y
]XYbh]Z`YX`W]i`gYg`cZ`d`U[]Uf]ga `]g`d`cc`f`h`ja`Y`a`UbU[Ya`Ybh`G`h`XYbhg`g`l`ci`X`U`ck`gi`Z`W]Ybh]ja`Y`Z`c`f
fYgYUfW`X`Z`X`f`U`Z]b[`UbX`h`Y`dfcdYf`fY`Z`fY`bW]b[`cZ`gci`fW`g`]b`dfY`d`Uf]b[`U`UggYgga`Ybh]Ug_g"

Z`d`U[]Uf]ga `]g`Z`ci`bX`]b`mci`f`k`cf`_`k`Y`b`mci`UfY`]b`Z`fghmY`Uf`Z`mci`f`YW`h`fY`f`k`]`c`Z`Y`f`mci`Ugg]ghUbW`hc
]a`dfcj`Y`mci`f`UWUXYa]Wg_]`g`"H`Y`ma`Um]Ug`_`mci`hc`cc`_`Uhgca`Y`cb`]bY`fYgci`fW`gž`U`h`Y`bX`h`Y`@YUfb]b[
7`YbhY`Z`cf`gca`Y`h`ja`Yg`fYgi`Va`]h`mci`f`k`cf`_`k`]h`h`Y`dfcV`Ya`Z]YX`"<ck`Yj`Yf`a`cfY`gYf]ci`g`]bg]UbW`g`]b`Z`fgh

⇒ dcfhUbh@]b_g

