



ARTS5505

DYfgcbU`]gYX'9b[`]g\'@Ub[iU[Y'9b\UbWaYbh

GYa YghYf'C bY''#'&\$%

7 ci fgY⁻Cj Yfj]Yk

`GHJZZ`7cbHJWh`8YHJ]`g`

'7cbj Ybcfg'

BUa Y	9a U]`	5j U]`UV]`]m	@cWUh]cb	D∖cbY
@cb[`@]	`cb["`]4 i bgk "YXi "Ui	H\i fgXUm&!' 'da UbX`VmUddc]bha Ybl	A cfj Yb 6fck b n! &, \$	- ' ,) `&(%+

°@Y₩hifYfg`

BUa Y	9a U]`	5j U]`UV]`]m	@cWUhjcb	D∖cbY
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"Hihcfg"

BUa Y	9a U]`	5j U]`UV]`]m	@cWUh]cb	D∖cbY
@cb[`@]	`cb["`]4 i bgk "YXi "Ui			
>Ugcb [:] <yzyfbub< td=""><td>∕Ugcb"∖YZYfbUb4 i bgk "YXi "Ui</td><td></td><td></td><td></td></yzyfbub<>	∕Ugcb"∖YZYfbUb4 i bgk "YXi "Ui			

GWXcc``7cbHJWhri=bZcfaUh]cb

GV%cc``cZ<iaUb]h]Yg'UbX'@Ub[iU[Yg

@cWUhjcb. `GW&cc``CZjWYžA cfjYb`6fckb`6i]`X]b[ž@YjY``&ž&),

CdYb]b[<< ci fg. A cbXUm! : f]XUmž - Ua '! (.() da

D\cbY. Ž*%&'-',) %*, %

: UI . Ž*%&'-' ,) ', +\$)

9a U]`. <u>\U`4_i bgk "YXi "Ui</u>

5HYbXUbW/FYei]fYaYbhg

5 'ghi XYbh']g'YI dYWYX'nc'UhhYbX'U```WUgg'WcbhUWh\ci fg'Zcf'U'ZJWY!nc!ZJWY'fI & Ł'cf'V`YbXYX'Wci fgY'UbX Wca d`YhY'U```UWh]j]h]Yg'Zcf'U'V`YbXYX'cf'Z ``micb`]bY'Wci fgY"

5 'ghi XYbhik \c'Uff]j Ygʻa cfYʻh\Ubʻ%) `a]bi hYgʻ`UhYʻa UmVYʻdYbU`]gYXʻZcfibcb!UhhYbXUbWY"`-Zgi W\ʻUʻdYbU`hm]gʻ]a dcgYXžh\Yʻghi XYbha i ghVYʻ]bZcfa YXʻj YfVU``mUhih\YʻYbXʻcZWUggʻUbXʻUXj]gYXʻ]bik f]h]b[-ik]h\]bi&(\ci fg"

ZUʻghi XYbhYI dYf]YbWYgʻ]`bYggža]gUXj Ybhi fYʻcfʻch\YfʻcVWY ffYbWYʻh\Uha U_YgʻUVgYbWYʻZfcaʻU WUgg#JWYjj]mi bUj c]XUV`YžcfʻYI dYWygʻhcʻVYʻUVgYbhZfcaʻUʻZcfh\Wća]b[`WUgg#JWYjj]mž'h\Ymg\ci`XʻgYY_ dYfa]gg]cbʻZfcaʻh\Yʻ7 ci fgYʻ5i h\cf]mžUbXʻk \YfYʻUdd`]WUV`Yž'h\Y]f`fYei Yghg\ci`X`VYʻUVWća dUb]YXʻVmUb cf][]bUʻcfʻWYfh]ZJYX`WćdmcZUʻa YX]WU``WYfh]Z]WUHYʻcfʻch\Yf`ZcfaʻcZUddfcdf]UHYʻYj]XYbWY"

5 '7 ci fgY '5 i h\cf]hma UmYI W gY U gh XYbhZfca 'WUggYg cf'UWj]hYg Zcf'i d hc cbY a cbh\"'< ck Yj Yfžh Ym a UmUgg][b UXX]h]cbU``UbX#cf'U`hYfbUh]j Y hUg_g hc Ybgi fY Wca d`]UbW" '5 '7 ci fgY '5 i h\cf]hmWcbg]XYf]b['h\Y [fUbh]b['cZUVgYbW'a i ghVY'gUh]gZJYX'U'gh XYbhk]``gh]``VY'UV'Y'hc'a YYhi\Y'Wci fgY'g``YUfb]b['ci hWca Yg UbX#cf'j c`i a Y'cZ`YUfb]b["'5'gh XYbhgYY_]b['Uddfcj U``hc'VY'UVgYbhZcf'a cfY'h\Ub'cbY'a cbh\'a i ghUdd`m]b'k f]h]b['hc'h\Y'8YUb'UbX'dfcj]XY'U``cf][]bU``cf'Wfh]ZJYX'gi ddcfh]b['XcW a YbhUh]cb"

: cfa cfY`]bZcfa Uh]cb`UVci hh\Y`UhhYbXUbWY`dfchcWc`g`]b`h\Y`: UW``hmicZ5fhg`UbX`GcW]U` GW]YbWYg.`<u>\hndg.#k k k "Ufhg"i bgk "YXi "Ui #W`ffYbhIghi XYbhg#UWUXYa]W]bZcfa Uh]cb#dfchcWc`g![i]XY`]bYg#</u>

5WUXYa]W=bZcfaUh]cb[·]

: cf`YggYbhJU``ghi XYbh`]bZcfa UhJcb`fY`UhJb[`hc.`fYei Yghg`Zcf`YI hYbg]cb/fYj]Yk `cZa Uf_g/`cVWV dUhJcbU``\YU`h UbX`gUZYhm'YI Ua]bUhJcb`dfcVWXi fYg/`gdYVJU``Vcbg]XYfUhJcb`]b`h\Y`Yj YbhcZ]``bYgg`cf`a]gUXj Ybhi fY/ ghi XYbhYei]hmUbX`X]gUV]`]hm'UbX`ch\Yf`YggYbhJU``UVUXYa]W]bZcfa UhJcbž gYY`<u>\hhdg.#k k k "Ufhg"i bgk "YXi "Ui #W ffYbhIghi XYbhg#UVUXYa]W]bZcfa UhJcb#dfchcVc`g![i]XY`]bYg#</u> 7ci fgY 8YHJ]g

7 fYX]hDc]bhg *

Gi a a UfmcZh Y 7 ci fqY

H\]q'WcifqY'k]``\Y`d'mci'hc'Yb\UbWf'mcif'9b[`]q\``Ub[iU[Y'q]``q']Zmci'qdYU'9b[`]q\'Uq'U'qYWcbX `Ub[iU[Y"'+b`UXX]h]cbž'h`]g`WcifgY`dfcj]XYg`mci`k]h`h\Y`g_]``g`hc`VY`Ub`Uihcbcacig`UbX`]bXYdYbXYbh YUfbYf'gc'h\Uhimci 'WUb'Wcbhbi Y'hc'Yb\UbWY'mci f'9b[`]g\``Ub[i U[Y'g_]``g']bhc'h\Y'Z hi fY'hc'UW\]Yj Y'mci f UWUXYa]WUbXidfcZygg]cbU``[cU`g"'Mci_ik]```]XYbh]Zmk \]WXiUgdYWfgEicZmci f'9b[`]g\imci_ik ci_X``]_Yihc]a dfcj Y UbX h Yb XYg][b UbX]a d Ya Ybhmci f ck b dYfgcbU dfc YWh c UWV a d]g mci f [cU g"

5 hih Y WebWi g]eb cZih]g Wei fgY h Y ghi XYbhik]``VY UV Y he

- %" 5 bU`mqY UbX]XYbh]ZmidYfqcbU```Ub[i U[Y bYYXq
- &" 5dd`mhcc`g`UbX`fYgci fWfg`Zcf``Ub[i U[Y`Yb\UbWfa Ybh
- ' " 8Yg][b`UbX`WUffmici hU`dYfgcbU``dfcYWiVUgYX`cb`h\Y`UbU`mg]g`cZdYfgcbU```Ub[i U[Y`bYYXg
- ("FYZYWicb'UbX'UggYgg'h\Y]fick bidfc[fYggihcigi gHJ]bidYfgcbU``UbX'dfcZygg]cbU```Ub[iU[Y Yb\Ub₩a Ybh
-) " 7 ca a i b]\WUHY \WF]h]\WU`dYfgcbU``YUfb]b['ci hWca Yg`k]h\`dYYfg

HYUW]b[GHfUHY[]Yg

5FHG))\$) XcYq`bchcZYf`U`cbY!g]nY!Zhg!U```gc`i h]cb`Vi hgWUZc`Xg`gh XYbhg`hc`HU_Y`fYgdcbg]V]`]miZcf Yb\UbWp[`fkY]f'9b[`]q\``Ub[`iU[Y'q_]``q'Vm\Y`d]b[`fkYa_]XYbHZmUbX'UXXfYqq'fkY]f'ckb']bX]j [XiU``bYYXq" H\]g`]g`VYWUi gY`gh XYbhg`Uhh\]g`UXj UbWYX`ghU[Y`cZ9b[`]g\``Ub[i U[Y`UWéi]g]h]cb`\Uj Y`X]ZYfYbhbYYXgž ghfYb[h\g`UbX`k YU_bYggYg"

:]fa `mVUgYX`cb`gcWjc!W``h fU```YUfb]b['h\Ycfmih\UhUf[i Yg`h\Uh`YUfbYfg`Wcbghfi Wih\Y]f`ck b``YUfb]b[h\fci [\`a YUb]b[Z``]bhYfUWf|cbg`fWZ'Jm[chq_m%, *Ez'h\]g`gY`ZX]fYWfYX'Ui hcbca ci g'Wci fgY`\Y`dg ghi XYbhg hc Yb\UbWY h\Y]f 9b[`]g\ g_]``g VmZ]fghmUbU`m]b['h\Y]f ck b bYYXg/gYWcbX`mXYj Y`cd]b[dYfgcbU``dfcYWg/h\]fX`m]a d`Ya Ybh]b[`h\Ya /Zci fh\`mYj U`i Uh]b[`h\Y]f`ck b`dfc[fYgg/UbX`Z]bU``mfYZYWf]b[cb⁻hY]f⁻ck b⁻YUfb]b["

H\fci [\ci hh\Y`Wci fgYžgh XYbhg`k]``VY`[i]XYX`k]h\fY`Yj Ubhh\YcfmždfUWf\WU`gi [[Ygh]cbg`UbX`i gYZ` fYqci fWg`]b`Vch\`YWfi fY`UbX`hi hcf]U``qYqq]cbg"

5ggYgga Ybh

5ggYgga YbhHUg_g

5ggYgga Ybh'HJg_	K Y][\h	8iY [°] 8UHY	GhiXYbhi@YUfb]b[CihWcaYgʻ5ggYggYX
DYfgcbU``dfc^YWnXYg][b fDD8±`	' \$I	&' #\$(#&\$% `%%\$\$`DA	' Ž(Ž)
DfcºY₩i`c[Vcc_'UbX'ĉifbU``	&\$1	\$, #\$*#&\$% `%%\$\$`DA	%ž&
CfU``DfYgYbfUh]cb'!'%\$ a]bihYg'	&\$1	\$%#\$*#&\$%`\$).\$\$`DA	(Ž)
F YZYW i j Y YggUm	' \$I	\$, #\$*#&\$% `%%\$\$`DA	%ž&

5ggYgga Ybh8YHJ]`g

5ggYgga Ybh% DYfgcbU`dfc YWhXYg][bfDD8Ł

GHUfh'XUHY.

@Yb[h\. %ž)\$\$*k cfXg

8YHJ]`g. `Gh XYbhg`XYg][b`h\Y]f`ck b`dYfgcbU``dfc*'*YWihc`UXXfYgg`h\Y]f`ck b`9b[`]g\``Ub[i U[Y`bYYXg"`H\Ym UfY`fYei]fYX`hc`gdYW]Zmih\Y]f`dYfgcbU``dfc*'*YWi[cU`ž'VUW_[fci bXža Yh\cXžfYgci fWYgž'dfc[fYgg a YUgi fYa Ybhž'h]a Y`]bYžgW\YXi `Y`UbX`Ubh]W]dUhYX`ci hVca Yg"`H\YmbYYX`hc`XYj Y`cd`h\Y]f`DD8`VUgYX`cb fY`Yj Ubh`]hYfUhi fY`cZh\Y`Z]Y`X`VcbWffbYX"`H\Y`k cfX``]a]h]g`%) \$\$"Ghi XYbhg`fYWf]j Y`k f]hhYb`ZYYXVUW_`VUgYX cb`fi Vf]Vg"```

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

GYY'A ccX`Y'Zcf'XYHJ]`"

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ba Ybh]g`gi Va]hhYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`WUb`gYY`Hi fb]h]b`g]a]`Uf]hm fYdcfhg"

5ggYgga Ybh& Dfc/YWh`c[Vcc_UbX 'ci fbU`

GHUfh'XUhY.

8YHU]`g. 'Ghi XYbhg`fYWcfX`h\Y]f``YUfb]b['UWhjj]h]Yg`UbX`_YYd`fYZYWhjj Y`'ci fbU``cb`U`fY[i `Uf`VUg]g`Ug d`UbbYX`]b`h\Y]f`DD8"'H\YmUfY`fYei]fYX`hc`gdYbX'' \$`\ci fg`cf`a cfY`Zcf`h\Y]f`dYfgcbU``dfc^YWhGhi XYbhg fYWh]j Y`k f]hhYb`ZYYXVUW_`VUgYX`cb`fi Vf]Wg"

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

GYY'A ccX`Y'Zcf'XYHJ]`"

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

5ggYgga Ybh'. CfU`DfYgYbHJh]cb'!'%\$`a]bi hYg

GHUfh'XUHY.

@Yb[h\.'%\$'a]bi hYg

8YHJ]`g. `Ghi XYbhg`dfYgYbhh\Y]f``YUfb]b[`\][\\][\\][`\][`\hg`Zfca `h\Y]f`dYfgcbU``dfc`YWiZcf`UVci h%\$`a]bi hYg`hc]bgd]fY`dYYfg`hc`Wcbh]bi Y`hc`Yb\UbWY`h\Y]f``Ub[i U[Y`g_]``g`Yj Yb`UZhYf`Wca d`Yh]b[``h\Y`Wci fgY"`H\YmUfY fYei]fYX`hc`gi Va]hUb`UVghfUWifUVci h%) \$`k cfXgE'UVci hk \Uhih\YmUfY`[c]b[``hc`dfYgYbhU'Wci d`Y`cZk YY_g VYZcfY`h\Y`dfYgYbhUh]cb`XUm'`Ghi XYbhg`fYWY]j Y`k f]hhYb`ZYYXVUW_`Zfca `hi hcf`cb`UVghfUWg`f%\$\ E`UbX`Zfca dYYfg`cb`dfYgYbhUh]cb`f%\$\ E`VUgYX`cb`fi Vf]Wg"

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

GYY `A ccX`Y `Zcf`XYHJ]`"

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ba Ybh]g`gi Va]hhYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`WUb`gYY`Hi fb]h]b`g]a]`Uf]hm fYdcfhg"

5ggYgga Ybh (. FYZYW) jYggUm

GHUfh'XUhY.

@Yb[h\.`&ž\$\$\$`k cfXg

8YHU]`g. `Ghi XYbhg`UbU`mh]WU``mUbX`Wf]h]WU``mfYZYWficb'h\Y]f``YUfb]b[`YI dYf]YbWY`cZ]a d`Ya Ybh]b[`h\Y]f`ck b dYfgcbU``dfc'YWfUbX`di hUWX]Yj UV`Y`UWf]cbg`]b'U`d`Ub'Zcf`h\Y`bYI h`YUfb]b[`gHU[Y''H\Y`k cfX``]a]h]g &\$\$\$"Ghi XYbhg`fYWY]j Y`k f]hhYb`ZYYXVUW_`VUgYX`cb`fi Vf]Wg"``H\]g`]g`h\Y`Z]bU``UggYgga YbhZcf`UhhYbXUbWY di fdcgYg"

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

GYY'A ccX`Y'Zcf'XYHJ]`"

Hi fb]h]b`gYh]b[.`H\]g`Ugg][ba Ybh]g`gi Va]hYX`h\fci [\`Hi fb]h]b`UbX`gh XYbhg`WUb`gYY`Hi fb]h]b`g]a]`Uf]hm fYdcfhg"

Gi Va]gg]cb cZ5ggYgga YbhHUg_g

Ghi XYbhg UfY YI dYWYX hc di hh\Y]f bUa Yg UbX ghi XYbhbi a VYfg cb Yj YfmdU[Y cZh\Y]f Ugg][ba Ybhg"

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

Zmci YbWci bhYf'U'dfcV'Ya 'k \Yb'UthYa dhjb['hc'gi Va]hmci f'Ugg][ba Ybht\fci [\'Hi fb]hjbž'd'YUgY hY'Yd\cbY'9I hYfbU''Gi ddcfhicb'-',) '' ' %cf'Ya U]`'h\Ya 'cb'<u>YI hYfbU'hY'hgi ddcfh4 i bgk "YXi "Ui</u>"'Gi ddcfh \ci fg'UfY', .\$\$Ua '-'%\$.\$\$da 'cb'k YY_XUmg'UbX'-.\$\$Ua '-') .\$\$da 'cb'k YY_YbXg'fl *) 'XUmg'U'mYUfŁ'' Zmci UfY'i bUV'Y'hc'gi Va]hmci f'Ugg][ba YbhXi Y'hc'U'ZJi `hk]h\'Hi fb]hjb'mci 'a UmUdd`m'Zcf'Ub'YI hYbg]cbžVi hmci a i ghfYhU]b'mci f'hjW_Yhbi a VYf'Zfca '9I hYfbU''Gi ddcfhfU'cb['k]h\ 'Ubmch\Yf'fY'Yj UbhXcW a YbhgŁ'hc]bWi XY'Ug'Yj]XYbWY hc'gi ddcfhimci f'YI hYbg]cb'Udd`]WUhjcb'' Zmci 'Ya U]`'9I hYfbU''Gi ddcfhimci 'k]`` Ui hca UhjWU'`mfYWY]j Y'U'hjW_Yhbi a VYfž'Vi h]Zmci 'hY'Yd\cbY'mci 'k]``bYYX'hc'gdYWJZWU'`mUg_'Zcf'cbY" Hi fb]hjb'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]HHXXYYWYfcb]WU``mj]U'Y]H\Yf'Hi fb]h]b'cf'U'A ccX`Y Ugg][ba Ybh''=b`]bgHUbWYg'k \YfY'H\]g']g'bchdcgg]V`Yž']hk]``VY'gHUHX'cb'mci f'Wci fgY'g'A ccX`Y'g]HY'k]H\ U`HYfbUh]j Y'gi Va]gg]cb'XYHU]`g''

@UhY 5ggYgga Ybh DYbU`h]Yg

5b'UggYggYX'HJg_']g'XYYa YX``UHY']Z]h']g'gi Va]HHYX'UZHYF'H\Y'gdYW]ZJYX'Hja Y'UbX'XUHY'Ug'gYhici h]b'H\Y Wci fgY'@YUfb]b['A UbU[Ya YbhGmgHYa 'f@A GŁ''

H\Y``UHY`dYbU`hm`]g`H\Y`cgg`cZ)ı `cZH\Y`hcHJ``dcgg]V`Y`a Uf_g`Zcf`H\Y`HUg_`Zcf`YUWX`XUmcf`dUfhiH\YfYcZH\Y k cf_`]g``UHY"`@UHYbYgg`k]```]bWi XY`k YY_YbXg`UbX`di V`]W\c`]XUmg"`H\]g`XcYg`bchUdd`mhc`U`HUg_`H\Uh`]g UggYggYX`Vi hibc`a Uf_`]g`Uk UfXYX"

K cf_'gi Va]httX:Zci fhtYb`f%(EXUmg`UZhYf`h\Y`Xi Y`XUhY`k]``VY`a Uf_YX`UbX`ZYYXVUW_`dfcj]XYX`Vi hbc`a Uf_ k]``VY`fYWcfXYX''`=Zh\Y`k cf_`k ci `X`\Uj Y`fYWY]j YX`U`dUgg`a Uf_`Vi hZcf`h\Y``UhYbYgg`UbX`h\Y`k cf_`]g`U Wca di `gcfmWci fgY`Wca dcbYbhzU`gh XYbhk]``VY`XYYa YX`hc`\Uj Y`a Yhh\UhfYei]fYa Ybh'`H\]g`XcYg`bch Udd`mhc`U`hUg_`h\Uhi]g`UggYggYX`Vi hbc`a Uf_`]g`Uk UfXYX''

K cf_`gi Va]hhYX'hk YbhnicbY'f&&:XUmg'UZhYf'h\Y'Xi Y'XUhY'k]``bch'VY'UWW/dhYX'Zcf'a Uf_]b['cf'ZYYXVUW_ UbX'k]``fYWY]j Y'bc'a Uf_`cf'[fUXY"'=Zh\Y'UggYgga Ybh'hUg_`]g'U'Wca di `gcfm'Wca dcbYbhicZh\Y'Wci fgY'U ghi XYbh'k]``Ui hca Uh]WU``m'ZU]``h\Y'Wci fgY"

GdYWJU``7cbg]XYfUh]cb`5dd`]WUh]cbg

 $\label{eq:milling} \end{tabular} Mci `WUb`Udd`millingYgdYWJU`Wcbg]XYfUh]cb`k \Yb`]``bYgg`cf`ch\Yf`WJfW a ghUbWfg`]bhYfZYfY`k]h\`mci f UggYgga YbhidYfZcfa UbWf"$

G]W_bYggža]gUXjYbhifY`cf`ch\Yf`W]fW a gHubWfg`VYmcbX`mcif`Wcbhfc``aUm

ł DfYj Ybhmci Zfca Wcad Yhjb[UWci fgY fYei]fYa Ybhž

ł?YYdimci Zfca UHYbX]b[UbUggYggUVYUW]j]mž

ł Ghod moi i gi Va]hh]b[iUggYggUV Y k cf_ Zcf U Wci fgYž

ł `G][b]Z]WUbhmUZYWimci f`dYfZcfa UbWi`]b`UggYggUV`Y`k cf_ž`VY`]hU`Zcfa U``YbX!cZigYa YghYf`YI Ua]bUh]cbž`U WUgg`hYghž`U``UVcfUhcfmhYghž`U`gYa]bUf`dfYgYbhUh]cb`cf`Ubmich\Yf`Zcfa `cZUggYgga Ybh'

: cf'Z fh\Yf'XYHJ]`g`]b`fY`UH]cb`rc`GdYW]U``7 cbg]XYfUH]cb`]bWi X]b[`''K \Yb`rc`5dd`mf'Z''<ck`rc`5dd`mf'UbX "Gi ddcfh]b[`8cW a YbHJh]cb"'d`YUgY`fYZYf'rc'h\Y`GdYW]U``7 cbg]XYfUH]cb`rk YVgh]Y.` \hhdg.##gh XYbH'i bgk "YXi "Ui #gdYW]U`!Wcbg]XYfUH]cb

5WUXYa]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"`=hWUb`hU_Y`a Ubm Zcfa gžZca `XY`]VYfUhY`W\YUh]b[`hc`UWW]XYbhU``mWcdm]b[`Zca `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[.ih,Y`gUa Y`cf`j Yfmig]a]`Uf`k cfXg`hc`h,Y`cf][.]bU``hYI h`cf`]XYU`k]h\ci hUW_bck `YX[.]b[.ih,Y gci fWY`cf`i g]b[`ei chUh]cb`a Uf_g"`H\]g`U`gc`Udd`]Yg`hc`]a U[.Ygž`Ufh`UbX`XYg][b`dfc`YWfgž`Ug`k Y```Ug dfYgYbhUh]cbg`k \YfY`gca YcbY`dfYgYbhg`Ubch\Yf`g`]XYUg`cf`k cfXg`k]h\ci hWfYX]h"

=bUddfcdf]UhY'dUfUd\fUg]b[.'W\Ub[]b['U'ZYk 'k cfXg'UbX'd\fUgYg'k \]Y'a cghmfYhU]b]b['h\Y'cf][]bU' ghfi Whi fY'UbX']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]h''=hU`gc'Udd`]Yg'hc'd]YW]b['hc[Yh\Yf'ei chYg'UbX dUfUd\fUgYg']bhc'U'bYk 'k \c`Yž'k]h\ci hfYZYfYbW]b['UbX'U'gh XYbhg'ck b'UbU`mg]g'hc'Vf]b['h\Y'a UhYf]U` hc[Yh\Yf''

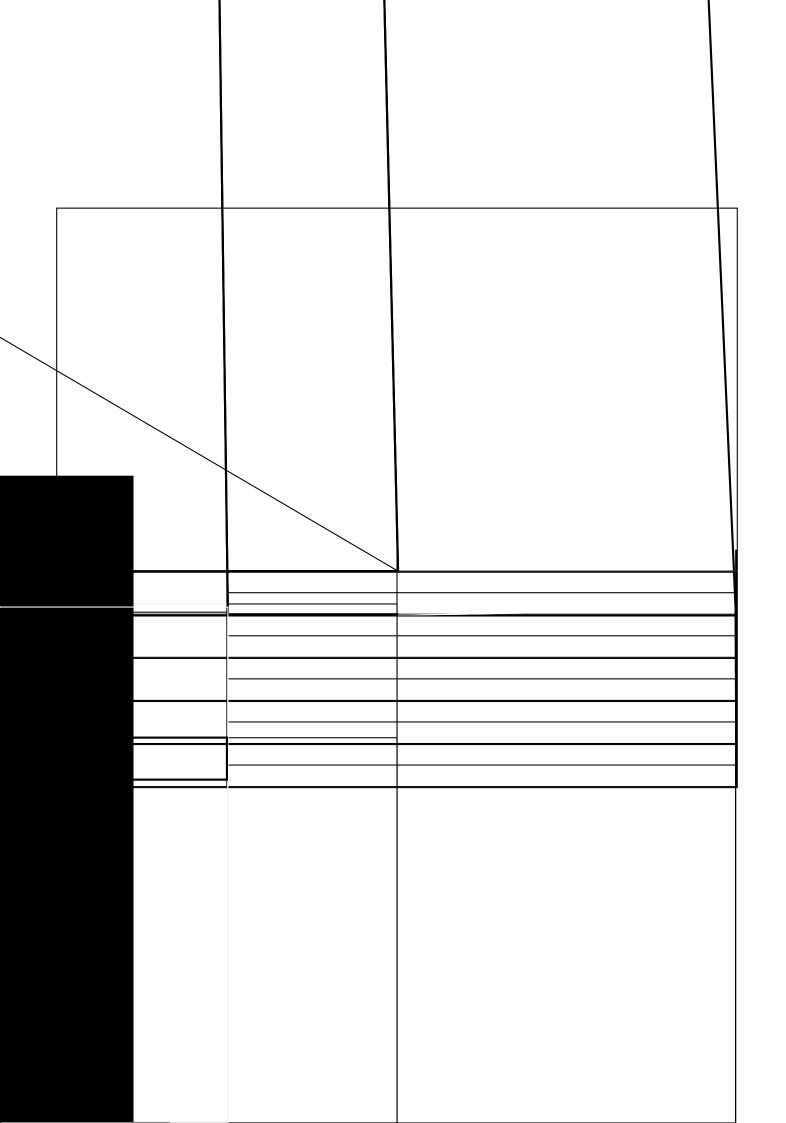
7 c``i g]cb. 'k cf_]b['k]h 'ch Yfg'Vi hdUgg]b['cZh Y'k cf_'Ug'U'dYfgcb'g']bX]j]Xi U``k cf_''7 c``i g]cb'U`gc]bWi XYg'dfcj]X]b['mci f`k cf_'hc'Ubch Yf'gh XYbhVYZcfY'h Y'Xi Y'XUhYzcf'Zcf'h Y'di fdcgY'cZh Ya d`U[]Uf]g]b['UhUbmh]a Yž'dUm]b['Ubch Yf'dYfgcb'hc'dYfZcfa 'Ub'UWUXYa]WhUg_ž'ghYU`]b['cf'UWei]f]b[Ubch 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_''

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

8id`]\WUh]cb`fl`gY`ZId`U[]Uf]ga "Ł`gi Va]hhjb[`mcif`ckb`kcf_ž`]b`k\c`Y`cf`]b`dUfhž`k\YfY`]h\Ug`dfYj]cig`m VYYb`dfYdUfYX`cf`gi Va]hhYX`Zcf`Ubch\Yf`UggYggaYbhcf`\\circf`Ucil BGK `cf`Ubch\Yf`ib]jYfg]hm"

7 cffYWhfYZYfYbW]b[dfUWf]WYg.

• VYHYfa UbU[Y'mcifh]a Y



FYgci fWg

DfYgWf]VYX F Ygci fWfg

• Ghi Xm]b[`]b`9b[`]g\.`GhfUhY[]Yg`Zcf`Gi WWYgg`]b`<][\Yf`9Xi WUh]cb`f&\$%+Ł

FYWca a YbXYX⁻FYgci fWYg

- 6cc_-@YUfbYf`9b[`]g\`f&\$\$%Ł
- 6cc_'-'7f]h]WU``FYUX]b['UbX'K f]h]b['f&\$\$' Ł
- 6cc_'-': cfY][b'@Ub[iU[Y'@YUfb]b['f1%-, Ł
- 6cc_--@YI]₩0`-=ggi Yg`]b`@Ub[i U[Y`@YUfb]b[`f%) Ł
- 6cc_'-'<ck '@Ub[iU[Yg'UfY'@YUfbYX'f&\$\$(Ł
- 6cc_'-';]j Y = 1U'; c. HYUW]b['Dfcbi bW]Uh]cb hc '5Xi `hg f&\$\$- Ł
- 6cc_'-'9ggYbhJU`g`cZ9ggUmK f]hJb[..K \UhA Uf_Yfg`@cc_': cf`f&\$%+Ł
- 6cc_'-'7 f]h]WU``F YUX]b['UbX'K f]h]b[']b'h\Y'8][]hU``5[Y'f&\$%*Ł
- 6cc_--HYUWX]b['UbX'FYqYUfWX]b['GdYU_]b['f&\$%+Ł

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

7 ci fgYgʻUfYʻdYf]cX]WU``mfYj]Yk YXʻUbXʻghi XYbhgʻZYYXVUW_`]gʻi gYXʻhcʻ]a dfcj Yʻh\Ya ":: YYXVUW_`]g [Uh\YfYX`Zfca `ghi XYbhgʻi g]b[`a m9I dYf]YbWY"Ghi XYbhgʻUfYʻYbWci fU[YX'hcʻWca d`YhYʻh\Y]fʻgi fj YmgʻVm UVWYgg]b[`h\YʻdYfgcbU`]gYX'k YV``]b_`j]Uʻh\YʻA ccX`YʻWci fgYʻg]hY"

⊨a U[Y[·]7fYX]h

D\chc"Vm6cg\Yb[">]b["&\$%*

7F*=*7CG

7F =7CG Dfcj]XYf 7cXY. \$\$\$-,;