



# **ARTS2033**

DcYhfmiUbX<sup>·</sup>DcYh**j**Wg

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

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# 7 ci fgY<sup>·</sup>Cj Yfj ]Yk

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

#### 7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]`]m	@cWUhjcb	D∖cbY
GYUbDfmcf	g"dfmcf4 i bgk "YXi "Ui	6mUddc]bha Ybh	FcVYfh KYVghYf <sup>*</sup> &%	\$(\$),(\$'%

### GWXcc``7cbHJWhri=bZcfaUh]cb

Fcca '' &&ž`Yj Y`'' FcVYfhK YVghYf6i ]`X]b[

D\cbY.`f\$&Ł`-`,)`(,)\*

9a U]`. <u>gUa 4 i bgk "YXi "Ui</u>

K YVg]hY.\<u>\thddg;##dylaa"Uffigg"ibogkk"YXX(i"Uji</u>

H\Y'GW\cc``cZh\Y'5fhg'UbX'AYX]U'k ci`X``]\_Y'hc'FYgdYWM2``m5W\_bck`YX[Y'h\Y'HfUX]h]cbU``7ighcX]Ubgž h\Y'6YXY[U``f?Ybg]b[hcb'WJadigŁž;UX][U``f7]hmUbX'5fh/`8Yg][b'7UadigYgŁ'UbX'h\Y'B[ibbUkU` dYcd`Y'f5ighfU`]Ub'8YZYbWF':cfWF'5WJXYam]b'7UbVYffUŁ'cZh\Y``UbXg'k\YfY'YUW\'WJadig'cZiBGK`]g `cWJHYX"

#### 5 HYbXUbW/FYei]fYaYbhg

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

5 'gh XYbrik \c'Uff]j Ygʻa cfYʻh\Ubʻ%) 'a ]bi hYgʻ`UhYʻa UmVYʻdYbUʻ]gYX'Zcfibcb!UhhYbXUbWY"'=Zgi W\ʻUʻdYbUʻhm ]gʻ]a dcgYXž'h\Yʻgh XYbria i ghVYʻ]bZcfa YXʻj YfVU``m'Uh'h\YʻYbXʻcZWUggʻUbXʻUXj ]gYXʻ]bik f]hjb[iik ]h\]bi&( \ci fg"

ZUʻghi XYbhYI dYf]YbWYgʻ]`bYggža ]gUXj Ybhi fYʻcfʻch\YfʻcVWY ffYbWYʻh\Uha U\_YgʻUVgYbWYʻZfcaʻU WUgg#UWfjj ]hmi bUj c]XUV`Yžcf`YI dYWfgʻhc`VYʻUVgYbhZfcaʻUʻZcfh\Wća]b[`WUgg#UWfjj]hmžh\Ymg\ci`XʻgYY\_ dYfa ]gg]cbʻZfcaʻh\Yʻ7 ci fgYʻ5i h\cf]hmžUbX`k \YfYʻUdd`]WUV`Yžh\Y]f`fYei Yghg\ci`X`VYʻUWVća dUb]YX`VmUb cf][]bU``cf`WYffjZJYX`WćdmicZUʻa YX]WU``WYffjZJWUHYʻcf`ch\Yf`Zcfa`cZUddfcdf]UHY`Yj]XYbWY"

5 '7 ci fgY '5 i h\cf]hma UmYI W gY Uʻgh XYbhZrca 'WUggYgʻcfʻUWfji JhYgʻZcfʻi dʻhcʻcbYʻa cbh\"' < ck Yj Yfžh Ym a UmUgg][ bʻUXX]hJcbU``UbX#cfʻU`hYfbUhji YʻHUg\_gʻhcʻYbgi fY Wca d`]UbWY" 5 '7 ci fgY '5 i h\cf]hmWcbg]XYfJb[ 'h\Y [ fUbhJb[ 'cZUVgYbWY`a i ghVYʻgUhJgZJYX`Uʻgh XYbhk ]```ghj``VY`UV`Y`hcʻa YYhh\Y`Wci fgY'g``YUfb]b[ 'ci H\car{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]hJb[ 'hc`h\Y`8YUb`UbX`dfcj ]XY`U``cf][ ]bU``cf`WYfhJZJYX`gi ddcfhJb[ 'XcW a YbHJh]cb"

: cf'a cfY']bZcfa Uh]cb'UVci hth\Y'UhhYbXUbWY'dfchcWc`g']b'h\Y': UW'`hmicZ5fhg'UbX'GcWj

5```ghi XYbhg`a i gh'a U\_Y`U`j U`]X`UhhYa dh'Uh'U```UggYgga Ybhg`]b`cfXYf`hc`dUgg`h\Y`Wci fgY"

: cfYggYbhJU``ghi XYbhjbZcfa UhJcb`fY`UhJb[`hc.`fYei Yghg`ZcfYl hYbg]cb/fYj ]Yk `cZa Uf\_g/cWW dUhJcbU``\YU`h\ UbX`gUZ/hm'Yl Ua ]bUhJcb`dfcWfXi fYg/gdYWJU``Wcbg]XYfUhJcb`]b`h\Y`Yj YbhcZ]``bYgg`cf`a ]gUXj Ybhi fY/ ghi XYbhYei ]hmUbX`X]gUV]`]hm/ cf`YggYbhJU` i X`a h]bZcfa UhJc /

aUgh ecb WYX a hi gYb ghiXYbh 'iX'a ']bZcfaUh]c 'df fc U ei fY `b\

# 7ci fgY<sup>·</sup>8YHJ]`g

# 7 fYX]hDc]bhg<sup>·\*·</sup>

# Gi a a UfmcZh\Y'7 ci fgY

#### GiVYWh5fYU.'7`Y/[eZ

H\]g`WcifgY`WUb`U`gc`VY`ghiX]YX`]b`h\Y`Zc``ck]b[`gdYW]U`]gUh]cbg.`5dWSf[hWId[f[`Y

K \Uh]gʻdcYlfm3'<ck 'Xc'k Y'\_bck 'UʻdcYa 'k \Yb'k YʻgYY']hž'UbX'k \m]gʻdcYlfmih Yʻa cgha cj ]b[ žh\Yʻa cgh WU``Yb[]b[ žUbX'h\Yʻa cgha Ya cfUV`YʻcZ`]hYfUfmiZcfa g3' =b h\]gʻWci fgY`mci 'k ]```fYUX'U`fUb[ YʻcZ UWVća d`]g\YX'UbX']bZi YbhJU`dcYa gʻ]b`U'j Uf]YlmcZ[ YbfYgž'Zfca 'V]h]b[ `gUh]fYgž'h\fci [ \`fUj ]g\]b[ ``cj Y dcYa gž'hc`fYWfbhYI dYf]a Ybhg`]b`X][]hU``dcYlfm''Mci 'k ]```YUfb'hc`h\]b\_`UVci higi W\`dcYa g`]b`fY`Uh]cb'hc h\Y]f`\]ghcf]WU``WćbhYI hyž'Zfca 'dc`]hJWU``fYj c`i h]cb'hc`gW]YbhJZJWXYj Y`cda Ybhg''5bX'mci 'k ]```X]gWćj Yf`bYk k UmgʻcZh\]b\_]b[`UVci hdcYlfmih\YcfYhJWU``mž'Zfca 'h\Y`a YUb]b[`cZgdYW]ZJWhYV\b]ei Ygž'gi W\`Ugʻ\]ghcfmž d\]`cgcd\mž'UbX'`ci fbU`]ga ''H\Y`U]a ']gʻhc`XYj Y`cd`U'h\cfci [ \`[ fci bX]b[ ']b'h\Y`XYj Y`cda YbhicZdcYlfmUg U'Zcfa ž'hc`\cbY`mci f`Wf]hJWU``g\_]``g`]b`UbU`mg]b[`dcYlfmž'UbX'hc`XYj Y`cd`U`gcd\]ghJWUhYX`[ fUgd`cZ WćbHYa dcfUfmXYVUhYg`UVci ht\Y`bUhi fY`UbX;g][ b]ZWUbWf`cZdcYlfm'

### 5 hih Y WobWi g]cb cZih ]g Woi fgY h Y ghi XYbhk ]``VY UV Y hc

%" 8 Ya cbglfUhY \_bck `YX[ Y`cZ9b[ `]g\ 'dcYlfmik f]hhyb 'VYlk YYb '%\*, \$`UbX '% \$\$````

- &" 7 cbg]XYf'dcYa g`]b`h\Y]f`\]ghcf]WU``WcbhYl h
- '"I bXYfgHUbX'\_Ym]ggi Yg`]b'h\Y'h\YcfmcZdcYhfmžUbX'Vf]b['h\Uhh\Ycfmhc'VYUf'cb'h\Y'fYUX]b['cZ gdYW]2]WdcYa g''''
- ("H\]b\_`\f]b\WU``mUbX`kf]hY`dYfgi Ug]j Y`mUVci hdcYhfm

### HYUWX]b[ GhfUhY[]Yg

H\Y`WcifgY`]bjc`jYg`fkc`cbY!\cif`YWfifYg`UbX`U`cbY!\cif`fifcf]U``YUW\`kYY\_"`H\Y``YWfifYg`UfY`XYg][bYX fc`dfcj]XY`gfiXYbfg`k]f\`\]gfcf]WU``VUW\_[fcibX`fc`f\Y`gYfidcYagžfc`XYacbgffUfY`f\Y`WcgY`UbU`mg]g`cZ

# 5ggYgga Ybh

FYZYFYbW]b["'Ghi XYbhg'UfY'ZfYY'hc'W\ccgY'k \]W\YjYf'fYZYfYbW]b['gmghYa''h\YmdfYZYf"'< ck YjYfž']b a U\_]b['h\]g'W\c]WY'ghi XYbhg'g\ci `X'VYUf']b'a ]bX'h\Y'di fdcgY'cZfYZYfYbW]b['.'hc'[i]XY'h\Y'fYUXYf'hc gci fWYgžUbX'k \Yb'bYWYggUfmhc'h\Y'fY`YjUbhdUfhcZh\Y'gci fWY']b'ei Ygh]cb"'5b'Ui h\cf!XUhY'gmghYa k]h\ci hdU[Y'bi a VYfg']g'h\i g'dYfZYWhmUddfcdf]UhY'Zcf'gW\c`Uf'mk f]h]b['XYU`]b['k]h\g\cfhk cf\_g XY']jYf]b['g]b['Y']XYUgž'Vi hh\Y'gUa Y'gmghYa']g']bUddcdf]UhY'k \Yb'W]h]b['Ubcj Y'ž'U'dcYa ž'U'gi VghUbh]U` 'ci fbU``Ufh]WYž'U'gW\c`Uf'ma cbc[fUd\žcf'U'k cf\_'cZUbm`Yb[ h\`UbX'Wca d`YI]m"'=b'h\cgY'WJgYgž'dU[Y'cf `]bY'bi a VYfg'UfY'YggYbh]U``Zcf'h\Y'fYZYfYbWF'hc`Xc']hg']bhY``YWh U`'k cf\_'

K cfX:7ci bhg"'5```ei chUh]cbg'UbX'fYZYfYbWYg'UfY']bWi XYX']b'k cfX'Wci bhgžk \]`Y'V]V`]c[fUd\]Yg'UfY'bch''5 a Uf[]b'cZ%si -'UVcj Y'UbX'VY`ck 'h\Y'gh]di `UhYX'k cfX'Wci bhk]```VY'UWWYdhYX'k]h\ci hidYbU`hm'

# 5ggYgga YbhHUg\_g

5ggYgga YbhHJg_	K Y][∖h	8iY`8UhY	GhiXYbhi@YUfb]b[ CihWcaYgʻ5ggYggYX
A ]bcf <sup>:</sup> 9ggUm	&\$I	&-#\$'#&\$%`%%)-`DA	%ž ž(
A U⁄cf <sup>:</sup> 9ggUm	(\$1	%%#\$)#&\$% `%%)-`DA	%ž&ž ž(
HU_Y! <ca td="" ua`<="" y`9i=""><td>(\$1</td><td>&amp;) #\$) #&amp;\$% `%%) - `DA</td><td>%ž&amp;ž ž(</td></ca>	(\$1	&) #\$) #&\$% `%%) - `DA	%ž&ž ž(

# 5ggYgga Ybh8YHJ]`g

5ggYgga Ybh'% A ]bcf'9ggUm

#### GHUfh'XUHY.

@Yb[h\.\*%\$\$\$\*kcfXg

8YHU]`g. `H\Y`A ]bcf`9ggUmcZ%\$\$\$`k cfXg`k ]```U``ck `gh XYbhg`hc`]a dfcj Y`UbX`X]gd`Umh\Y]f`\_bck `YX[ Y`cZ gdYW]2]WdcYh]Wh\Ycf]YgžUg`k Y```Ug`h\Y]f`UV]`]hmihc`Webg]XYf`dUfh]W'`Uf`dcYa g`]b`h\Y``][\hicZh\cgY`h\Ycf]Yg" H\]g`YI YfW]gY`U`gc`YbWe'i fU[ Yg`gh XYbhg`hc`W``h]j UhY`U`hYW\b]WU``j cWUVi `UfmUbX`hc`k f]hY`UVci hidcYhfm]b`U k Umih\

#### 5ggYgga Ybh& A U⁄cf'9ggUm

GHUfh'XUHY.

@Yb[h\.`&\$\$\$`k cfXg

**8YHJ]`g**. `H\Y`A U`cf`9ggUmcZ&\$\$\$`k cfXg`k]```U``ck `ghi XYbhg`hc`XYj Y`cd`UbX`X]gd`Umh\Y]f`UV]`]mhc WcbXi Whi]b!XYdh\`fYgYUfW\`UbX`hc`k f]hY`U`a cfY`gi VgHUbh]U``gW\c`Uf`m`YggUmUVci h'9b[``]g\`dcYhfmUbX dcYh]Wg"``5`a Uf\_`ci hcZ%\$\$`UbX`k f]hYb`Wca a Ybhg"

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

5ggYgga Ybh7f]hYf]U.

%±`5V]`]mirc`kf]hY`Wc\YfYbhmUbX`Ufh]Wi`UhY`m

&Ł5V]`]mihc`UbU`mgY`dcYhfmiWcgY`m

'Ł'5V]`]mihc Yb[U[Y'k]h\ h\Y'h\YcfmicZdcYhfm

(±5V]`]mihc`i gY`U`hYW\b]WU``j cWUVi `Ufm]b`UbU`mg]b[`dcYhfm

) Ł5V]`]mihc Webghfi WiU dYfgi Ug]j Y Uf[ i a YbhUVci hU dcYa 'ef deYa g

\*Ł5V]`]mihc`Yb[U[Y`UWAjjY`mUbX`Webghfi WajjY`mik]h\`gYWebXUfmWajh]Wjga`

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'bchgYY'Hi fb]h]b g]a ]`Uf]hmifYdcfhg"

5ggYgga Ybh' . HU\_Y!<ca Y'9I Ua

GHUfh'XUHY.

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

) Ł'5V]`]mihc fYZYWicb h\Y'a U/cf'WcbW/dhg UbX'dfcV'Ya g'Wcj YfYX']b h\Y'Wci fgY

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'bchgYY'Hi fb]h]b g]a ]`Uf]hmifYdcfhg"

# 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 YbhDYbU`h]Yg

5b'UggYggYX'HUg\_']g'XYYa YX'`UHY']Z]h']g'gi Va ]HYX'UZHYF'H\Y'gdYW]ZJYX'Ha 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`hchU``dcgg]V`Y`aUf\_g`Zcf`h\Y`hUg\_`Zcf`YUW\`XUm`cf`dUfhih\YfYcZh\Y kcf\_`]g``UhY"`@UhYbYgg`k]```]bWiXY`kYY\_YbXg`UbX`diV`]W\c`]XUmg"`H\]g`XcYg`bchUdd`mhc`U`hUg\_`h\Uh`]g UggYggYX`Vihbc`aUf\_`]g`UkUfXYX"

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[ UbiUggYggUVYUW]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

# 7 ci fgY GWX YXi `Y

# <u>J]Yk WUgg'ha YHJV'Y</u>

# H]a YHJV`Y'

8 UHY	Hmd Y	7 cbhYbh	
K YY_`%`&*`: YVfi Ufm!`( A UfWX	@YWhifY	H\Y`=XYU`cZDcYhfmifCfžĭ8cbfhi≕?bck`]hK \Yb`≕GYY ]h3Ł	
K_YY_`&.`) `A_UfVX`!`%% A_UfVX	@YWhifY	H\Y`5bW]YbhE i UffY``VYfk YYb`DcYffmUbX D\]`cgcd\mffC fž`5fY`5```DcYfg`@]Ufg3Ł	
K YY_'''%&`A UfWX`!`% A UfWX	C fž'5 fY '5 ```D <b>†</b>	‰ %o	

# FYgci fWg

### DfYgWf]VYX F Ygci fWyg

GYY'GVXYXi`Y'UbX'FYUX]b[gžUjU]`UV`Y'cb'h\Y'WcifgYfg'AccX`Y'dU[Y"

#### FYWca a YbXYX<sup>-</sup>FYgci fWYg

GYY'GWXYXi Y'UbX'FYUX]b[gžUjU]`UVY'cb'H\Y'WcifgYfg'AccX'Y'dU[Y"

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

Ghi XYbhgʻk ]``VYʻYbWci fU[ YXʻhcʻZ]``ci hicb`]bYʻA m9I dYf]YbWYʻgi fj YmgʻUhih YʻYbXʻcZh YʻWci fgYʻgcʻh Uh Zi fh Yfʻ]a dfcj Ya Ybhgʻa UmiVYʻa UXY"

#### ⊣a U[Y<sup>·</sup>7fYX]h

6cX]Yg'/ "+bHYfZJWYg"&\$%\*

#### 7 F =7 C G

7F=7CG<sup>.</sup>Dfcj]XYf<sup>.</sup>7cXY<sup>.</sup>\$\$\$-,;