

# MECH9720

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@YUfb]b[ 'Ci hWca Y	95 'GHJ[ Y:%7ca dYhYbWYg
' "'I bXYfgHUbX'UbX'VY'UV'Y'hc'i gY'hY'hYfa ]bc'c[ mUggcWUHX'k ]h gc'Uf'h.Yfa U'YbYf[ mh'c'WYUH'U'dfcZYgg]cbU'fYdcfh'	D9' "%žD9' ")
("5dd'mih.Y'UVcj Y'hc'gc'Uf'h.Yfa U'gmgh'a g'Zca 'Ub'Yb[ ]bYYf]b[ dYfgdYWj] Y	D9&"%žD9&"&žD9&" žD9&"(

HYUWX ]b[ 'GhfUH[ ]Yg'

H\Y'hYUWX ]b[ 'ghfUH[ ]Yg'h.Uhk ]'VY'i gYX' ]bWl XY.

- K YY\_`migmbVXfcbci g'@YWh fYg#B ]gW gg]cbg'fHYUa gL'UbX'8Ya cbghfUhc'b'gYgg]cbg'fZca 'K YY\_`&ž Vxc]W'cZ]b!dYfgcb'cf'cb'HYUa gL"
- 5gmbVXfcbci g'dfYgYbHhc'b'cZh.Y'a UHf]U'Ug'j ]Xyc'fYWcfX]b[ g'cZdUgh'YWh fYgž]b'A ccX'Y"
- &) ]bhfUWj] Y'@Yggcbgž]b'A ccX'Y
- 7ci fgY'BchYgž]b'A ccX'Y
- 5'a ]l'cZei U']Hh] Y'UbX'ei Ubh]Hh] Y'a UHf]U'

# 5ggYgga Ybh

5gg)[ ba Ybh]bgfhi Wjcbgža Uf\_]b[ [ i ]XY]bYg'ffi Vf]MgŁz'UbX'cH'Yf'XYHJ]g'k ]'VY'Uj U]UV'Y'cb'A ccX'Yž d'YUgY'W'YW\_]b'fY[ i 'Uf'm'ž'XYYa YX'bYVW'ggUfmž'WUf]Z]W]h]cbg'UbX'č'f'\]bhg'a UmVY'dfcj ]XYX'j ]U'HYUa gž gc'd'YUgY'YbXYUj cf'hc'W'YW\_]Vch'A ccX'Y'UbX'HYUa g'fY[ i 'Uf'mXi f]b[ 'h'Y'gYgg]cb"

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%'K YY_`mE i ]n	, i	K YY_`&žK YY_` žK YY_` (ž K YY_`) žK YY_`+žK YY_`, ž K YY_`- žK YY_`%\$	%ž&
&"@UVcfUhcfmF YdcfhfBi Y K YY_`-Ł	&) i	&- # \$ + # & \$ & \$ ) . \$ \$ ' DA	%ž&ž' ž(
' "'GmghYa '5Xj ]gcfA cXY` 5bU'mg]g'fHUg_`%8i Y'K YY_` ) /HUg_`&8i Y'K YY_`+/HUg_` ' '8i Y'K YY_`%\$Ł	&+i	K YY_`) žK YY_`+žK YY_`%\$	%ž&ž' ž(
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 8i Y'XUH'. 'K YY\_`&žK YY\_` žK YY\_` (žK YY\_`) žK YY\_`+žK YY\_`, žK YY\_`- žK YY\_`%\$  
 8YUX' ]bY'ž'f'UVgc' i h'ZU]. 'E i ]n'7'cgY'f]'Y'ž'2') 'XUm]ž'ca 'E i ]n'c dYbŁ  
 A Uf\_g'fYh' fbYX. 'GfU][ \hUž'f'YUW' 'E i ]n'WcgYg

8YgW]dh]cb. 'K YY\_`mA ccX'Y'ei ]nnYg'k ]'fi b'žca 'K YY\_`&!K YY\_`%\$"'H\Ymk ]''bW'i XY'U'a ]i h'fY'cZ  
 W]W' UHY'X'ei Ygh]cbgž'fhi Y#Z]gYža UH'X]b[ 'UbX'a i 'h'd'Y'W'c]W'ei Ygh]cbg'k \]W'fci [ \mZ'č'ck 'U'cb[ 'k ]h  
 h'Y'@Yggcbg'UbX''YW'i fYg"

Di fdcgY. 'Hc'\Y'd'gh' XYbhg'ghU'icb'f'fUW\_]b'h'f'a g'cZdfc[ fYgg'h'fci [ \h'Y'W'ci fgY'W'cb'h'bh''G]bW'h'YfY  
 UfY'a i 'h'd'Y'U'h'f'a dhg'U'č'ck YX'UbX'YUW' ]bX]] ]Xi U'ei ]n'Ug'č'ck 'k Y][ \h]b[ ž]hd'fcj ]XYg'gca Y'ZYXVUW\_  
 cb'gh' XYbhi bXYfgh]bX]b[ 'cZ'h'Y'W'cb'h'bh''

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GhUfhXUHY. % # \$ \* # & \$ & \$ - . \$ \$ ' 5 A

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8i Y`XUHY. &- # \$ + # & \$ & \$ ) . \$ \$ `D A

8YUX`]bY`Zcf`UVgc`i HY`ZU]`. ``2`) `XUmg`UZf`8i Y`fgYY`@UHY`Dc`]Wt

A Uf\_g`fYh fbYX.`

Di fdcgY. H\Y`di fdcgY`cZHY`@UVcfUhcfm]g`hc`a YUgi fY`UbX`WU`W`UH`H`Y`YZ]WYbWncZ'`imdYg`cZgc`Uf`h`Yfa U`Wc`Y`Wc`fg`fZUhd`UH`Z`Yj UW`UH`X`h`VY`Z`UbX`dUfUvc`]W`Wc`b`W`bfUhc`f`"

G\_]`g. Gh XYbtg`k ]`YUfb`\ck`hc`a YUgi fY`gc`Uf`h`Yfa U`dYfZcfa UbW`XUH`UbX`h`Y`UbU`mj]WJ`dfcW`Xi fYg



? bck `YX[ Y. 'l dcb'gi Va ]gg]cbž'gh XYb'g'k ]``\_bck ` \ck `hc `WcbXi W'U'XYg\_`cd'dUfUa Yhf]Wgh Xmž'UbX  
dfYgYbhi`Y`Z]bX]b[ g`Zc'f'gc`Uf`h`Yfa U`gmg'hYa g`UhiU`Yj Y`WcgY`hc`k \Uhk ci `X`VY`fYei ]fYX`Zca `U  
dfY`ja ]bUfmZ'Ug]V`]mifYdcfhZcf`Ub`Yb[ ]bYYf]b[ `dfcW`fYa YbhiUbX`Wcbg'fi W]cb`fD7L`UbX#cf`Ub  
Yb[ ]bYYf]b[ `Wcbgi `h]b[ `Zfa "

H\]g`Ugg][ ba Ybh]g'gi Va ]mYX`h'fci [ \ `Hi fb]h]b`UbX'ghi XYb'g`Wb'gYY`Hi fb]h]b`gja ]]Uf]mifYdcf'g"

5ggYgga Ybh`W]h'f]U

GYY`UggYgga Ybh]bg'fi W]cbg`UbX`fi Vf]W`H\]g`]g`Ub`]bX]j ]Xi U`UggYgga Ybh`

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C b`bY`5Wj ]m	K YY_`%\$`@YWf fY`J ]XYc"
C b`bY`5Wj ]m	K YY_`mHYUa g`8]gW gg]cb"
K cf_g\cd	DfcV`Ya `gc`j ]b[ `k cf_g\cd`k ]h XYa cbghfUrcf`J ]XYc`fYVcfX]b[ g`UbX#cf`]] Y gYgg]cbg`k ]h`XYa cbghfUrcfg`fWc]W`cZj ]fh U`cf ]b!dYfgcb`Ug`dYf`h]a YHUV`Y`Ybfc`a`YbH`"
5ggYgga Ybh	K YY_`mE i ]n. `E i ]n`7`cgYg`VYZcfY`hLY`bYI h gWXYXi`YX`YWf fY`h]a Y
5ggYgga Ybh	GmgH`Ya `5Xj ]gcf`A cXY`5bU`mg]g`fHUg_`%`8i Y K YY_) /HUg_`&`8i Y`K YY_`+/HUg_`" `8i Y`K YY_ %\$L`Gi Va ]h' `gYdYfUH`HUg_`F Ydcftg`f]b`A ccX`YL`

F Ygci fWg

DfYgWf]VYX F Ygci fWg

F YghUhb[ 'hY'UVcj YZhY'Z'ck ]b[ 'fYdfYgYbng'U'' ]ghcZhY'a cghi gYZ ''fYgci fWg'Zcf'h'g'Wci fgY.

- 'A 97 < - +&\$'7 ci fgY'BchYgl'f]b'A ccXYŁ
- H\Y'Wci fgY'bcHYg'UfY'bYYXYX'rc'gc'j'Y'hY'XYa cbghfU]cb'gYgg]cb'dfcV'Ya g'UbX'fci [ \ 'mZ'ck U'cb[ 'k ]h'hY'Wci fgY'WcbH'bh'
- C b' ]bY '@Yggcbg'f]b'A ccXYŁ
- J ]XYc'fYWcfX]b[ g'cZ'YWh'fYg'Zca' /dfYj ]ci g'mYUfg'f]b'A ccXYŁ
- J ]XYc'fYWcfX]b[ g'cZdfcV'Ya 'gc'j ]b[ 'XYa cbghfU]cbg'f]b'A ccXYŁ
- @] Y' ]b!dYfgcb#cb' ]b' ]b'dfcV'Ya 'gc'j ]b[ 'XYa cbghfU]cbg'fHYUa g'cf' ]b!dYfgcbŁ
- 5 'J ]fh U'' \*\$ '@UV'rc'
- 5gg][ ba YbhXYhU]g'fHYa d'UHgz'YI Ua d'Ygz'fi Vf]WŁ ]b'A ccXY
- @YWh'fY'bcHYg'g' ]XYg' ]b'A ccXY
- K cf\_YX'UbX'bi a Yf]Wge'i ]cbg'rc'gY'YWX'dfcV'Ya g' ]b'A ccXY
- 5b'cb[ c]b[ 'X]gW'gg]cb' ]b'HYUa g'fk ]h '@j' Y'UWW'gg'Xi f]b[ 'gWYXi 'YX''YWh'fY'h'a YgŁ



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G\ci 'X'h\Y'Wci fgY'\Uj Y'Ubmcbcb!Y'YWfcb]WUggYgga Ybhgi Va ]gg]cbž'h\Yg'g\ci 'X'\Uj Y'U'ghUbxUfX



hYgY'UfY'XY'Xi f]b[ 'hY'i b]] Yfg]mYI Ua ]bU]cb'dYf]cXg. : YVfi UfmZcf'Gi a a Yf'HYfa žA UmZcf'H%ž  
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D'YUgY'j ]g]ha m' BGK 'Zcf'Dfcj ]g]cbU'9I Ua ]bU]cb'h]a YhUV'Y'di V' ]g\ 'XUH'g": cf'ž f'hYf' ]bZcf'a U]cb'cb  
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### GdYW]U'7cbg]XYfU]cb

žmci '\Uj Y'YI dYf]YbW]X'Ub' ]'bYgg'cf'a ]gUXj Ybhi fY'VYmcbX'mci f'Wcbfc' 'hU]k ]' ]b]fZYfY'k ]h'mci f  
UggYgga YbhdYfZcf'a UbWžmci 'UfY'Y' ] [ ]V'Y'hc 'Udd'mZcf'GdYW]U'7cbg]XYfU]cb'df]cf'hc'gi Va ]h]b[ 'Ub  
UggYgga Ybhcf'g]h]b[ 'Ub'YI Ua "

I BGK 'bck '\Ug'U': [\]h\]c'G\]h#Gi Va \]hfi 'Yžk \ \]W'a YUbg'hU\]h\]Zmci 'U\]h'a dhUb'YI Ua 'cf'gi Va \]hU'd\]YW'cZ  
UggYgga Yb\]žmci 'UfY'XYWUf\]b\[ 'mci fgY'Z\]hYbci \[ \ 'hc'Xc'gc'UbX'W\]bbch'U\]h'f'Udd'mZcf'GdYW\]U'  
7cbg\]XYfU\]cb"](#)

: cf'XYhU]g'cZUdd'm]b[ 'Zcf'GdYW]U'7cbg]XYfU]cb'UbX'WcbX]h]cbg'Zcf'hY'Uk UfX'cZgi dd'Ya YbhUfm  
UggYgga Yb]ž'd'YUgY'gYY'hY' ]bZcf'a U]cb'cb'I BGK 'g' [GdYW\]U'7cbg\]XYfU\]cb'dU\[ Y](#)"

D'YUgY'bc]h' hU]ghi XYbh]k ]' ]'bchVY'fYei ]fYX'hc'dfcj ]XY'UbmXcW'a YbhUfmYj ]XYbW'hc  
gi ddcf]hUVgYbW]g'Zca 'UbmWUggYg'a ]ggYX'VYW]i gY'cZ7CJ -8!%- 'di V' ]W\YU'h' 'a YUgi fYg'gi W' Ug  
]gc'U]cb" I BGK 'k ]' ]'bchVY' ]bg]gh]b[ 'cb'a YX]W' W]fh]Z]W]hYg'Zca 'UbmcbY'XYYa YX'hc'VY'U'dcg]h] Y'WUgYž  
cf'k \Yb'hYm\Uj Y'fYWčj YfYX" 'Gi W' W]fh]Z]W]hYg'UfY'X]Z]W' h'hc'cVhU]b'UbX'di hU]b'i bbYVW]ggUfm]ghU]b'cb  
gh XYbh]UbX'a YX]W' ]ghUZZ'

5dd' ]W]h]cbg'Zcf'gdYW]U'Wcbg]XYfU]cb'k ]' ]'VY'fYei ]fYX'Zcf'UggYgga YbhUbX'dU]h]W]dU]cb'UVgYbW]g' -  
Vi hbc'XcW'a YbhUfmYj ]XYbW'Zcf'7CJ -8!%- ]' ]'bYgg'cf' ]gc'U]cb'k ]' ]'VY'fYei ]fYX"

### GdYW]U'7cbg]XYfU]cb'Ci hW'a Yg

5ggYgga Ybh] '\Uj Y'XYZ]i 'hGdYW]U'7cbg]XYfU]cb'ci hW'a Yg" H\Y'XYZ]i 'hci hW'a Y'Zcf'hY'UggYgga Ybhk ]'  
VY'UXj ]gYX'k \Yb'mci 'Udd'mZcf'GdYW]U'7cbg]XYfU]cb'"6Y'ck' ]g'hY' ]ghcZdcgg]VY'ci hW'a Yg.

C i hWēa Y	9I d`UbUhjcb	9I Ua d`Y
Hja Y`YI H`Ybgjcb	Gh XYbhdfcj ]YXX`a cFY`hja Y h`c`gi Va ]h`h`Y`UggYgga Ybh	Y"[ ""%a cFY`k YY_`cZ`hja Y`[ fUbhYX`h`c`gi Va ]hU`fYdcfh
Gi dd`Ya YbUfm UggYgga Ybh	Gh XYbhdfcj ]YXX`Ub U`h`fbUH`UggYgga YbhUhU `UH`f`XUH`#]a Y	Y"[ ""U`gi dd`Ya YbUfmYI Ua `]g`g`W`X`i`Y`X`Xi f]b[ `h`Y gi dd`Ya YbUfmYI Ua `dYf]cX`cZ`h`Y`h`fa
Gi Vgh`h`h`Y`h`Y`a	H`Y`a`Uf_`Z`f`h`Y`a`]ggYX UggYgga Ybh]g`gi Vgh`h`h`Y`X k ]h`h`Y`a`Uf_`cZ`Ubch`Y`f UggYgga Ybh	Y"[ ""a`Uf_`Z`f`E`i`]n`%`Udd`]YX`U`gc`Udd`]YX`Ug`a`Uf_`Z`f E`i`]n`&`z`a`Y`Ub]b[ `]Z`U`gh`XYbh`U`W`]Y`Y`X`U`a`Uf_`cZ &`\$`\$`Z`f`E`i`]n`%`UbX`k`Ug`[ fUbhYX`GdYW]U` 7`cbg]XYfUhjcb`Z`f`E`i`]n`&`z`U`a`Uf_`cZ`&`\$`\$`k`ci`X`VY Udd`]YX`Z`f`E`i`]n`&`z`Y`h`W
9I Ya dhjcb	5`W`i`fgY`a`Uf_g`UfY fYW]W`U`h`Y`YI`W`X]b[ `h`]g UggYgga YbhUbX`]hg k Y][ \`h]b[	Y"[ ""H`Y`W`i`fgY`Ug`Ub`UggYgga Ybh]gfI`W`h`fY`cZ `!`5gg][ ba`Ybhg`)`\$i`z `!`@JV`fYdcfh`)`\$i`z `!`:`]bU`9I`Ua`(`\$i`" `Z`h`Y`@JV`fYdcfh]g`a`]ggYX`UbX`gh`XYbh]g`[ fUbhYX GdYW]U`7`cbg]XYfUhjcb`z`h`Y`b`h`Y`UggYgga Ybh ghfi`W`h`fY`a`UmVY`fYk`Y][ \`h`X`Ug`Z`c`k`g. `!`5gg][ ba`Ybhg`)`\$i `!`:`]bU`9I`Ua`)`\$i Ug`h`ci`[ \`h`Y`@JV`fYdcfh]X`bchYI`]gh
Bcb!ghUbXUfX	7`ci`fgY`7`ccfX	<div style="display: flex; justify-content: space-around; align-items: center;"> <span>‰</span> <span>‰</span> <span>‰</span> <span>h</span> </div>

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

h@Z`YUfb]7.h.Xf\Uj`dUgXYbfhghi,XYbhY`k`lc`i`bXYfghYf]bg`UWUXYa`]W]bhY[ f]mU\W`]g`bchc`  
|`BGK`\Ug`Ub`cb[ c]b[ `Wca`a`]ra`Ybhrc`Zcghr]b[ `U`W`h`fY`cZ`YUfb]b[ `]bZca`YX`Vm`UWUXYa`]W]bhY[ f]m`5`UY`k`b`  
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]mUbX`]g`bchc`YfUHYX`Uhl`BGK`"B`SY[Sde\_`SfG@E|`[e`VW]`W`Se`ge[`Y`  
fZW`i`adVe`ad[VWSe`aXafZW`S`V`bSee[`Y`fZW\_`aXSe`kagdai`z`

D`U[ ]Uf]ga`]g`U`mdY`cZ]bhY`YW`i`U`h`YZh`#`hW]b`hU`\_`a`UbmiZca`gZ`Zca`XY`]VYfUHY`WXYU]b[ `hc`UWUXYbH`m`  
W`dm]b[ `Zca`U`gci`fW`k`]h`ci`hUW`bck`YX[`Ya`Ybh`I`BGK`\Ug`dfcXi`W`X`U`k`YVg]h`k`]h`U`k`YU`h`cZ`  
fYgci`fW`g`hc`gi`ddcfghi`XYbhg`hc`i`bXYfgHUbX`UbX`Uj`c]`UWUX`UY`GK`"

5 WUXYa ]WbZcfa Uh]cb

7 fYX]hdc]bHg

7 ci fgY WfYX]h]g WUW UHYX ]b i b]hg! C Z 7 fYX]hfl C 7 E "H\Y bcfa U k cf\_cUX YI dYWW]h]cb ZcfcbY I C 7 ]g Uddfcl ]a UHY m&) \ci fg dYfHYfa "H\]g ]bW XYG UdfYgWf]VYX bi a VYf cZ\ci fg dYf k YY\_fk# E cZ UW]j ]hYgZdfYdUfU]h]cb UbX h]a Y'gdYbhc b U UggYggUV Y'k cf\_"

A cghWci fgYk cf\_Wci fgYg Uhi BGK UfY \* I C 7 UbX ]bj c j Y Ub Ygh]a UHYX %) \$ \ci fg hc Wca d'YHY Zcf Vch fY [ i Uf UbX ]bHYbg] Y HYfa g "9 UWX Wci fgY ]bW XYG UdfYgWf]VYX bi a VYf cZ\ci fg dYf k YY\_fk# E cZ gWYXi YX ZJW!hc!ZJW UbX#cfcb ]bY WcbhUW 5bmUXX]h]cb U h]a Y VYmcbX hY dfYgWf]VYX WcbhUW\ci fg g\ci X VY'gdYbh]b'a U\_]b [ gi fY hUhmci i bXYfg]UbX hY YW h fY'a UHYf]U'z Wca d'Yh]b [ hY'gYh Ugg] [ ba YbHgZ fHYf fYUX]b [ zUbX'fYj ]g]b [ 'Zcf UbmYI Ua ]bU]cbg"

C b!WJa di g WUgg UHYbXUbW

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!!!!!!!!!!!!!!!!!!!!!!!!!!!!

Di V ]WX]ghUbW]b [ WcbX]h]cbg'a i ghVY Zcck YX Zcf U ZJW!hc!ZJW WUggYg "Hc Ybgi fY h ]gZcb mghi XYbHg Ybfc YX ]b hcgY WUggYg k ] VY Uck YX ]b hY fcca " B c'cj Yf Ybfc'a Ybh]g Uck YX ]b ZJW!hc!ZJW WUggYg "Gh XYbHg Ybfc YX ]b cb ]bY WUggYg W]b gk Ud hY ]f Ybfc'a Ybh]fca 'cb ]bY hc 'cb!WJa di g WUggYg VmGi bXUmz K YY\_% 'D YUgY fY Zf hc mci f Wci fgYfg A ]Wcgc ZhHYUa g UbX A ccX Y'g ]hYg Zcf'a cfY ]bZcfa Uh]cb UVci hWUgg UHYbXUbW Zcf ]b dYfgcb UbX'cb ]bY WUgg gYW]h]cbg#UW]j ]hYg"

Mci f\YU h UbX hY \YU h cZ hcgY ]b mci f WUgg ]g W ]h]m]a dcfU bh Mci 'a i ghghUmUh\ca Y ]Zmci UfY g]W\_c f\Uj Y VYb UXj ]gYX hc gY Z ]gc UHY Vm BGK \YU h cf [ cj Yfba YbhUi hcf]hYg "7 i ffYbh UYfHg UbX U ]ghcZ \chgdchg W]b VY Zci bX \YfY "Mci 'k ] bchVY dYbU ]gYX Zcf'a ]gg]b [ 'U ZJW!hc!ZJW UW]j ]mXi Y hc ] bYgg cf U fYe i ]fYa Ybhic gY Z ]gc UHY "K Y k ] k cf\_k ]h mci hc Ybgi fY Wcbh]bi ]mci Z YUfb]b [ Xi f]b [ mci f ]gc U]h]cb UbX \Uj Y d'Ub g ]b d'UW Zcf mci hc WUWX i d'cb UbmWcbh]bhc f YUfb]b [ UW]j ]hYg mci 'a Um a ]gg "K \YfY h ]g'a ] [ \hbc hVY d'cgg ]V Yz Ub Udd ]W]h]cb Zcf ZY fYa ]gg]cb'a UmVY X]gW ggYX " : i fHYf ]bZcfa Uh]cb ]g Uj U]UV Y'cb UbmWci fgY A ccX Y'cf HYUa g ]hY"

b WfU]b WUggfcca UbX UVcfUhc fmg]h Uh]cbg k \YfY d\ng]W X]ghUbW]b [ W]bbchVY'a U]bhU]bYX'cf hYfY ]g U \ [ \ f]g\_ h Uh]h W]bbchVY'a U]bhU]bYXz ZJW'a Ug\_g k ] VY Wcbg]XYfYX'a UbXUhc fmDD9 Zcf ghi XYbHg UbX ghUZ

: cf'a cfY ]bZcfa Uh]cbzd YUgY fY Zf hc hY  
: 5E g. \htdg.#k k "Wcj ]X!%- "i bgk "YXi "Ui #gUZY!fYh fb!WJa di g!ZJeg

; i ]XY ]bYg

5 gh XYbHg UfY YI dYWWX hc fYUX UbX VY ZJa ] ]Uf'k ]h 'I BGK [ i ]XY ]bYg UbX dc ]Wg" b dUf]W Ufz gh XYbHg g\ci X VY ZJa ] ]Uf'k ]h hY Zcck ]b [ .

- [5HYbXUbW](#)
- [I BGK '9a U\] '5XXfYgg](#)
- [GdYWU '7cbg\]XYfU\]h\]cb](#)
- [9I Ua g](#)
-

- [5WXYa JW<cbYghmUbX`D`UfJga](#)

@afW FZ[e UagdeWagf` WeWe agf VWeUdbfja` aXU`SeeWe Sf fZWVSfWfZW5 agdeWA gf` W[e bgT feZWz FZW  
` SfgdWaXU`SeeWe \_ Sk UZS` YWVgd` Y fZWFd\_ SXWdfZW5 agdeWA gf` W[e bgT feZWz ? aaV`WeZag` TW

5ddYbX|l . '9b[ ]bYYfg'5i ghfU`U'f95Ł'DfcZYgg]cbU`'9b[ ]bYYf'7ca dYhYbWm  
 GHUbXUfX

Dfc[ fUa 'bHYbXYX'@YUfb]b[ 'Ci hWta Yg	
? bck `YX[ Y'UbX'g_]`VUgY	
D9%"%7 ca dfY\Ybg]j YžhYcfmVUgYX'i bXYfghUbX]b[ 'cZhY'i bXYfd]bb]b[ 'bUh fU`UbX d\mg]WU`gWYbWg'UbX'hY'Yb[ ]bYYf]b[ 'Z bXUa YbHU'g'Udd`]WUV'Y'hc'hY'Yb[ ]bYYf]b[ 'X]gWd`]bY	
D9%"&'7 cbWdh U`i bXYfghUbX]b[ 'cZhY'a UhYa Uh]Wgžbi a Yf]WU`UbU'mg]gžghUhgh]WgžUbX Wta di hYf'UbX' ]bZcfa Uh]cb'gWYbWg'k \]W' i bXYfd]b'hY'Yb[ ]bYYf]b[ 'X]gWd`]bY	
D9%" " 'b!XYdh'i bXYfghUbX]b[ 'cZgdYWU`]ghVcX]Yg'cZ_bck `YX[ Y'k ]h]b'hY'Yb[ ]bYYf]b[ X]gWd`]bY	
D9%"('8]gWfba YbhcZ_bck `YX[ Y'XYj Y`cda YbhUbX'fYgYUfW'X]fYW]cbg'k ]h]b'hY Yb[ ]bYYf]b[ 'X]gWd`]bY	
D9%" ) ? bck `YX[ Y'cZYb[ ]bYYf]b[ 'XYg][ b'dfUW]W'UbX'WcbHYI h U`ZUW'c'fg]a dUW]b[ 'hY Yb[ ]bYYf]b[ 'X]gWd`]bY	
D9%"* 'i bXYfghUbX]b[ 'cZhY'gWc'dYždf]bWd`Ygžbcfa gžUW'c' bHUJ`]h]Yg'UbX'Vci bXg'cZ gi gh]bUV'Y'Yb[ ]bYYf]b[ 'dfUW]W' ]b'hY'gdYW]ZWX]gWd`]bY	
9b[ ]bYYf]b[ 'Udd`]WU]h]cb'UV`]jm	
D9%"%5dd`]WU]h]cb'cZYghUV`]g\YX'Yb[ ]bYYf]b[ 'a Yh'cXg'hc'Wta d'YI'Yb[ ]bYYf]b[ 'dfcV'Ya gc`]b[	
D9%"&'&: 'i YbhUdd`]WU]h]cb'cZYb[ ]bYYf]b[ 'hYW]b]ei Ygžhc'c'g'UbX'fYgci fW'g	
D9%" " '5dd`]WU]h]cb'cZgmg]Ya Uh]WYb[ ]bYYf]b[ 'gmbhYg]g'UbX'XYg][ b'dfcW'ggYg	
D9%"('5dd`]WU]h]cb'cZgmg]Ya Uh]WUddfcUW]Yg'hc'hY'WcbXi W]UbX'a UbU[ Ya YbhcZYb[ ]bYYf]b[ dfc'YW]g	
DfcZYgg]cbU`UbX'dYfgcbU`Uhf]Vi hYg	
D9' "%9h]WU`WcbXi W]UbX'dfcZYgg]cbU`UW'c' bHUJ`]jm	
D9' "&'9ZYW]j Y'cfU`UbX'k f]hYb'Wta a i b]WU]h]cb`]b'dfcZYgg]cbU`UbX`UmXca U]bg	
D9' "' '7fYUh]j Yž`]bbcj Uh]j Y'UbX'dfc!UW]j Y'XYa YUbcif	
D9' "( 'DfcZYgg]cbU`i gY'UbX'a UbU[ Ya YbhcZ]bZcfa Uh]cb	
D9' )" 'C'fXYfma UbU[ Ya YbhcZgY'Zi'UbX'dfcZYgg]cbU`WcbXi W]	
D9' "*" '9ZYW]j Y'hYUa 'a Ya VYfg\]d'UbX'hYUa ``YUXYfg\]d	