

MUSC2603

A UHYfjU`g`UbX`Ghfi Wñ fYg`cZA i gJW(

HYfa `Hk c` `##`&\$&\$

GWXcc`cZHAY`5ftg`UbX`A`YXJU``#`I`BGK`..5ftg`UbX`GcWJU`GwYbWYg

7ci fgY'8YHJ]`g

7fYX]hDc]bhtg`*`

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

Gi V`Y`W`h`5`f`Y`U`.`?` ge[U

H\]g`W`c`f`Y`W`c`i`fg`Y`Y`I`h`b`X`g`h`Y`g`h`X`Y`b`h`g`_`b`c`k` `Y`X`[`Y`c`Z`h`Y`a`U`h`f`]U`g`z`g`f`i`W`h`f`Y`g`z`U`b`X`d`f`c`W`g`g`Y`g`c`Z`h`c`b`U`
a`i`g`]W`h`c`U`b`U`X`j`U`b`W`X`Y`j`Y`j`]U`h`Y`g`h`X`m`U`b`X`U`d`d`]W`h`j`c`b`c`Z`U`f`a`c`b`]W`U`b`X`a`Y`c`X`]W`d`f`U`W`]W`g`]b`V`c`h`
U`X`j`U`b`W`X`W`c`i`b`h`f`d`c`]b`h`z`Z`c`W`g`]b`[`d`U`f`h`m`i`c`b`h`Y`g`h`X`m`i`c`Z`h`Y`a`i`g`]W`c`Z`>`G``6`U`W`X`z`U`g`k`Y``U`g`Y`U`f`m`i`&`\$`h`
W`b`h`f`m`K`Y`g`h`f`b`U`f`h`a`i`g`]W`W`c`a`d`c`g`]h`c`b`z`U`b`X`]b`W`i`X`]b`[`U`b`Y`I`U`a`]b`U`h`j`c`b`c`Z`h`Y`]j`a`d`]W`h`j`c`b`g`Z`c`f`g`i`W`X`
a`i`g`]W`U`d`f`U`W`]W`g`c`b`c`h`Y`f`g`h`m`Y`g`g`i`W`X`U`g`d`c`d`i`U`f`a`i`g`]W`U`b`X`U`n`n``G`h`X`Y`b`h`g`k`]``X`Y`j`Y`c`d`h`Y`W`b`]W`
`b`c`k` `Y`X`[`Y`U`b`X`g`]``]b`h`Y`U`b`U`m`g`]g`U`b`X`U`d`d`]W`h`j`c`b`c`Z`U`d`d`f`c`d`f`]U`h`Y`a`Y`c`X`]W`U`b`X`U`f`a`c`b`]W`Y`U`V`c`f`U`h`]c`b`z`
W`c`i`b`h`f`d`c`]b`h`U`b`X`W`c`b`h`f`U`d`i`b`h`U`h`Y`W`b`j`e`i`Y`z`j`c`]W`Y`!`Y`U`X`]b`[`z`U`b`X`a`i`g`]W`U`Z`c`f`a``9`I`Y`f`W`]g`Y`g`]b`U`X`j`U`b`W`X`
W`c`a`d`c`g`]h`c`b`U`W`U`Z`h`d`f`c`j`]X`Y`h`Y`g`h`X`Y`b`h`k`]h`h`Y`c`d`d`c`f`h`b`]m`i`h`c`X`Y`a`c`b`g`h`f`U`h`Y`h`Y`]f`]b`]h`]U`h`j`Y`U`b`X`W`Y`U`h`j`]h`m`

5ggYgga Ybh

5`UggYgga Ybh]hYa g'UFY'hc'VY'gi Va]hYX'j]U'A ccX'Y"

h]g'l B GK 'Dc`]WhhUhU`gh XYbhg'a i ghUHYa dh5@@UggYgga Ybhg`]hYa g'k]h.]b'h.]g'Wci fgY"

Gh XYbhg'a i ghUW.]Yj Y'U'fDUggfia Uf_'Zcf'h.Y'<Ufa cbmWca dcbYbhhc'VY'Uk UfXYX'U'fDUggfia Uf_'Zcf'h.Y'Wci fgY'cj YfU`"

5ggYgga YbhHUg_g'

5ggYgga YbhHUg_	K Y][\h	8i Y'8UH'	Gh XYbh@YUfb]b[Ci hWca Yg'5ggYggYX
A i g]W@]hYfUh fY'	%)	Bch5dd`]WUVY	(ž)
< Ufa cbmf@YWh fY'.	* \$)	Bch5dd`]WUVY	%ž&ž ž(ž)
5i fU`K cf_g\cd'fHi hc]U'.	&))	Bch5dd`]WUVY	%ž&ž ž(

5ggYgga Ybh8YHJ]g

8YHJ]g.

Dcfhzc`jc`cZ< Ufa cbmUbX`7 ca dcg]hcb`9I YfW]gYg.`cbY`UbU`m]WU`hYghz`cbY`a]bcf`Ugg][ba Ybhž`UbX`cbY
Wta dcg]hcb`YI YfW]gY"

K f]hYb`ZYXVUW`dfcj]XYX`Vm`YWn`fYf"

5XX]h]cbU`XYHJ]g.

H\Y`< Ufa cbmDcfhzc`jc`Wta dcbYbh]g`VUgYX`cb`h`fY`UggYgga Ybh]hYa g`h`UhUfY`UggcW]UHX`k]h`h`Y
WtbhYbhcZVch`h`Y`< Ufa cbm@YWn`fY`UbX`h`Y`< Ufa cbmGh`X]c.

%`< Ufa cbmHYghf%) | Ł`h`Y`X`Uh`h`Y`< Ufa cbmGh`X]c`h`a`Y`Uh`%\$"" \$Ua`!`%&`\$\$da`cb`Hi`YgXUm
&`>`i`bY`fK`YY`_`(`Ł`h`h]g`hYgh]g`k`cfh`%) | `cZ`h`Y`h`h`U`a`Uf`_`Z`c`f`h`Y`Wta`fgY"

&`A`]bcf`5gg][ba Ybhf%) | Ł`h`VY`gi`Va`]hYX`j`]U`A`ccX`Y`Vm`(`"\$`\$da`:`f]XUm`%+`>`i`m`fK`YY`_`+Ł`h`h]g
UggYgga Ybh]g`k`cfh`%) | `cZ`h`Y`h`h`U`a`Uf`_`Z`c`f`h`Y`Wta`fgY"

`"7`ca`dcg]hcb`9I`YfW]gY`f]`\$i`Ł`h`VY`gi`Va`]hYX`j`]U`A`ccX`Y`Vm`(`"\$`\$da`A`cbXUm`%\$`5i`[`i`ghfVY`[`]bb]b[`cZ
K`YY`_`%Ł`h`h]g`Wta`dcg]hcb`]g`k`cfh`" \$i`cZ`h`Y`h`h`U`a`Uf`_`Z`c`f`h`Y`Wta`fgY"

D`YUgY`B`chY.`gh`XYbhg`bYXX`h`U`h]b`U`f]Uggfia`Uf`_`Z`c`f`h`Y`< Ufa cbmWta`dcbYbh`h`VY`Uk`UfXYX`Ub
cj`YfU`f]Uggfia`Uf`_`Z`c`f`h`Y`Wta`fgY"

Hi`fb]h]b`gYh]b[.`H\]g`]g`bchU`Hi`fb]h]b`Ugg][ba Ybh

5ggYgga Ybh`.5i`fU`K`cf_g\cd`fHi`hcf]UŁ

GHUfhXUH.`Bch5dd`]WVY

8YHJ]g.

Dcfhzc`jc`cZ5i`fU`9I`YfW]gYg.`cbY`UbU`m]WU`YI`YfW]gYž`cbY`Ui`fU`hYghz`cbY`g][\h]g]b[]b[`hYgh`

K f]hYb`ZYXVUW`dfcj]XYX`Vm`h`h`f"

5XX]h]cbU`XYHJ]g.

Hi fb]hb'gYhb[. 'H\]g']g'bchU'Hi fb]hb'Ugg][ba Ybh

5 hYbXUbW F Yei]fYa Ybhg

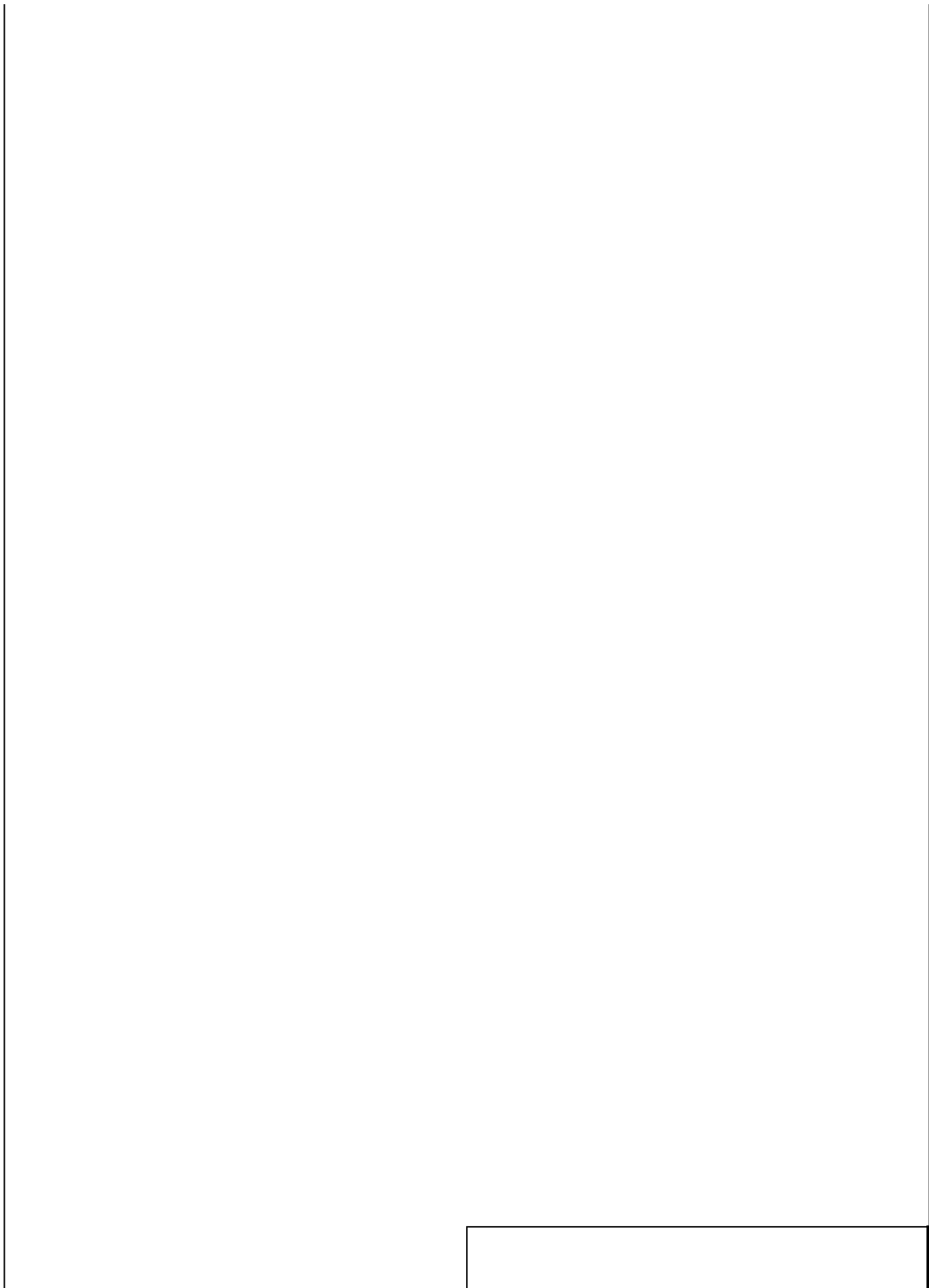
Gh XYbhg UFY gfcfb [mYbWci fU[YX hc UHhYbX U WUggYg UbX fYj]Yk YWih fY fYWcfX]b[g"

7 ci fgY GWYXi Y

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Hja YhUVY

8UhY	HmdY	7cbhYbh
K YY_% '%>i bY!) '>i bY	Hi hcf]U'	5i fU`Hi hcf]U'. A cbXUm\$%'>i bYž%\$" \$Ua '! %&"\$da žcb!`]bY" Hi hcf.`; Ycf[]U'@]_Ybg D@95G9`BC H9.`<Ufa cbmGh X]cg`VY[]b`cb Hi YgXUmicZK YY_&"
	@YWh fY	<Ufa cbm@YWh fY.`: f]XUm\$) '>i bYž%&"\$da '! %" \$da žcb!`]bY" @YWh fYf.`>c\b`DYHfgcb D@95G9`BC H9.`<Ufa cbmGh X]cg`VY[]b`cb Hi YgXUmicZK YY_&"
K YY_&.`; '>i bY!`%& >i bY	Hi hcf]U'	A cbXUm\$, '>i bY.`BC`HI`HCF`-5@!`DI`6@=7 <C`@=85M` .
	Gh X]c	<Ufa cbmGh X]c.`Hi YgXUm\$- '>i bYž%\$" \$Ua '! %&"\$da žcb!`]bY" Hi hcf.`>c\b`DYHfgcb
	@YWh fY	<Ufa cbm@YWh fY.`: f]XUm%& '>i bYž%&"\$da '! %" \$da žcb!`]bY" @YWh fYf.`>c\b`DYHfgcb
K YY_`' .`%) '>i bY!`% ->i bY	Hi hcf]U'	5i fU`Hi hcf]U'. A cbXUm%) '>i bYž%\$" \$Ua '! %&"\$da žcb!`]bY" Hi hcf.`; Yc[]U'@]_Ybg
	Gh X]c	<Ufa cbmGh X]c.`Hi YgXUm%* '>i bYž%\$" \$Ua '! %&"\$da žcb!`]bY" Hi hcf.`>c\b`DYHfgcb
	@YWh fY	<Ufa cbm@YWh fY.`: f]XUm%- '>i bYž%&"\$da '! %" \$da žcb!`]bY" @YWh fYf.`>c\b`DYHfgcb



		Hi ħcf.; Yc[]U'@]_Ybg 5I F 5@H9GH"
	Gh X]c	< Ufa cbmGh X]c. ħi YgXUm&%>i `mž%\$" \$Ua `! %&"\$da žcb!]bY" Hi ħcf. '>c\b'DYĦfgcb
	@YWh fY	< Ufa cbm@YWh fY. ': f]XUm&('>i `mž%\$" \$da `! %" \$da žcb!]bY" @YWh fYf. '>c\b'DYĦfgcb
K YY_- . '&+ '>i `m! " %>i `m	Hi ħcf]U`	5i fU` ħi ħcf]U`. 'A cbXUm&+ '>i `mž%\$" \$Ua `! %&"\$da žcb!]bY" Hi ħcf.; Yc[]U'@]_Ybg . .
	Gh X]c	< Ufa cbmGh X]c. ħi YgXUm& '>i `mž%\$" \$Ua `! %&"\$da žcb!]bY" Hi ħcf. '>c\b'DYĦfgcb
	@YWh fY	< Ufa cbm@YWh fY. ': f]XUm' %>i `mž%\$" \$da `! %" \$da žcb!]bY" @YWh fYf. '>c\b'DYĦfgcb
K YY_%\$. " '5i [i gh! '+ 5i [i gh	Hi ħcf]U`	5i fU` ħi ħcf]U`. 'A cbXUm\$' '5i [i ghž%\$" \$Ua `! %&"\$da žcb!]bY" Hi ħcf.; Yc[]U'@]_Ybg G][\ĦG]b[]b['HYghžUbX`ž]bU`Wca a Ybhg'cb'A i g]W @]ĦfUĦ fY'fYdYfĦ]fY" . .
	Gh X]c	< Ufa cbmGh X]c. ħi YgXUm \$('>i `mž%\$" \$Ua !%&"\$da žcb!]bY" A I G=7 '@H9F 5HI F 9'H9GH"

F Ygci fWg

DfYgWf]VYX`F Ygci fWg`

F YWca a YbXYX`F Ygci fWg

<Ufa cbmi@YWi fY`HYI Hcc_.

H]hY. H\Y`A i g]WUbbg; i]XY`rc`H\YcfmUbX`5bU`mg]g
5i h\cfftgk`>UbY`D]dYf`7`YbX]bb][`UbX`9`]hUVYh`A Ufj`]b`K`Ygh
Di V]g\Yf. K "K " Bcftcb/`7`ca dUbm`bW
9X]hcb." fX`9X]hcb
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7ci fgY`9j U`i Uh]cb`UbX`8Yj Y`cda Ybh

Gh XYbhZYXVUW`_]g`cb`h]g`Wci fgY`]g`[`UhYfYX`dYf]cX]WU`miUbX`]g`U`k`Umg`WUfYZ`miWcbg]XYfYX`k`]h`U
j`]Yk`rc`UW]b[`cb`]hWcbgfi`W]j`Y`mk`YfYj`Yf`dcgg]V`Y":`YYXVUW`_]g`[`UhYfYX`Vmj`Uf]ci`g`a`YUbg`]bW`X]b[
hY`cVWUg]cbU`]bZcfa`U`cb!`]bY`ei`Ygh]cbbU]fY`UbX`j`]U`hY`a`cfY`Zcfa`U`a`m9I`dYf]YbW`DfcW]gg"

h`][`h`cZdfYj`]ci`g`ZYXVUW`_Zcfa`ghi`XYbh]b`h]g`Wci fgY`a`cfY`ZcW`g`\Ug`VYYb`[`]j`Yb`h`i`bXYfghUbX]b[
\Ufa`cbmUbX`\Ufa`cb]W]WcbW]d]hg`Ug`h`Y`mfY`UH`rc`U`nn`UbX`chYf`a`i`g]WghmYg"G]a`]Uf`nZ`U`VfcUXYf`fUb[`Y
cZa`i`g]W]`ghmYg`]g`fY`ZYfYbW]X`UbX`YI`Ua`]bYXz`YgdYW]U`mk`]h]b`hY`Ui`fU`UbX`A`i`g]W@]hYfUh`fY
Wca`dcbYbhg]b`cfXYf`rc`Z`fhYf`Yb\UbW`UbX`Wcbgc`]XUH`hY`gh`XYbh]i`bXYfghUbX]b[`cZhcYg`WcbW]d]hg"

Gi Va]gg]cb`cZ5ggYgga YbhiHUg_g

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

≠mci`YbWci`bHYf`U`dfcV`Ya`k` \Yb`UHYa`dh]b[`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`h`fci`[`\`Hi`fb]h]b`z`d`YUgY`
HY`Yd`cbY`9I`HYfbU`Gi`ddcfhcb`-`,`)`"``'``%cf`Ya`Uj`h`Ya`cb`YI`HYfbU`HY`hgi`ddcfh4`i`bgk`"YXi`"Ui`""Gi`ddcfh`
`lci`fg`UfY`,`.\$\$Ua`-`-%\$.\$\$da`cb`k`YY`XUmg`UbX`-`.\$\$Ua`-`).\$\$da`cb`k`YY`YbXg`f1`*)`XUmg`U`mY`Uf2`≠mci`
UfY`i`bUV`Y`hc`gi`Va`]hmc`i`f`Ugg][`ba`Ybhi`Xi`Y`hc`U`Zji`h`k`]h`Hi`fb]h]b`mci`a`Um`Udd`m`Zc`f`Ub`YI`HYbg]cb`z`Vi`hmc`i`
a`i`gh`fY`hU]b`mci`f`h]W`Yhbi`a`VYf`Z`ca`9I`HYfbU`Gi`ddcfh`f`U`cb[`k`]h`Ubmc`h`Y`f`fY`Yj`Ubh`Xc`W`a`Yb`hg`L`hc`
]b`Wi`XY`Ug`Yj`]XYb`VW`hc`gi`ddcfh`mci`f`YI`HYbg]cb`Udd`]W`h]cb`≠mci`Ya`Uj`9I`HYfbU`Gi`ddcfh`mci`k`j`
Ui`hc`a`U`h]W`m`f`Y`W`j`Y`U`h]W`Y`hbi`a`VYf`z`Vi`h]Z`mci`HY`Yd`cbY`mci`k`j`b`YYX`hc`gd`Y`W`Z`W`m`Ug`_`Zc`f`cbY`
Hi`fb]h]b`U`gc`d`fcj`]XYg`i`d`XU`HY`g`cb`h`Y]f`gm`gh`Ya`g`h`U`h`g`cb`Hk`]h`Y`f`"

;`Yb`Yf`U`m`z`Ugg`Ygga`Ybhi`Ug_g`a`i`gh`VY`gi`Va`]h`Y`X`Y`Y`W`f`cb]W`m`j`]U`Y`]h`Y`f`Hi`fb]h]b`cf`U`A`cc`X`Y`
Ugg][`ba`Yb`h`-`h]b`gh`U`b`V`W`g`k` \Y`fY`h`l`g`]g`b`ch`id`cgg]V`Y`z`]h`k`]`VY`g`h`U`HY`X`cb`mci`f`W`ci`fg`Y`g`A`cc`X`Y`g`]h`k`]h`
U`HY`fb`U`h]`Y`gi`Va`]gg]cb`X`Y`hU]`g`"

:`cf`]b`Z`c`fa`U`h]`cb`cb` \c`k`hc`gi`Va`]h`Ugg][`ba`Yb`hg`cb`]b`Y`j`]U`A`cc`X`Y`.\`h`d`g`#`gh`XYb`h`i`bgk`"YXi`"Ui`#`ck`!
gi`Va`]h`Ugg][`ba`Yb`h`a`cc`X`Y`"

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

D`U[]Uf]ga `]g`i g]b[`hY`k cfXg`cf`]XYUg`cZc`hYfg`UbX`dfYgYbh]b[`hYa `Ug`mci f`ck b" `#WUb`hU`Y`a Ubm
Zcfa gZ`Zca `XY`]VYfUHY`VX`YU]b[`hc`UW]XYbhU`mW`cdm]b[`Zca `U`gci fW`k]h`ci hUW`bck `YX[Ya Ybh`

I BGK `[fci dg`d`U[]Uf]ga `]bhc`hY`Zc`ck]b[`W]hY[cf]Yg.

7 cdm]b[.`i g]b[`hY`gUa Y`cf`j Yfmg]a]Uf`k cfXg`hc`hY`cf][]bU`hY`hcf`]XYU`k]h`ci hUW`bck `YX[]b[`hY

- i bXYfghUbx'mci f'f][\hg'UbX'fYgdcbg]V]h]Yg'Ug'U'gh XYbhUhl BGK
- VY'Uk UfY'cZd'U[]Uf]ga ž'Wcdmf][\hž' BGK 'Gh XYbh7cXY'cZ7cbXi W'Ubx'5Ww'dhUV'Y'I gY'cZ I BGK '⇒H'F Ygci fW'g'Dc`]Wm
- VY'Uk UfY'cZh'Y'ghUbxUfXg'cZVY\Uj]ci f'YI dYW'X'cZYj Yfmcby'jb'h'Y'I BGK 'Wca a i b]m
- `cWJh'gYfj]Wg'UbX'jbZcfa Uh'cb'UVci hl BGK 'UbX'I BGK '@VfUfm

Gca Y'cZh'YgY'UfYUg'k]`VY'ZJa]]Uf'hc'mci ž'ch'Yfg'k]`VY'byk "; U]b]b['U'gc`X'i bXYfghUbx]b['cZU`h'Y fY'UH'X'UgdYW'g'cZ9@G9'k]`Y'd'mci 'a U_Y'h'Y'a cghcZmci f'gh X]Yg'Uhl BGK ""

[\hd. #gj V'YWf i \]XYg" \]VfUfm'i bgk "YXi "Ui #' \]gY#JVci h' \]gY](#)

5 WUXYa]W**⊖**Zcfa Uh]cb

: cf`YggYbh]U`ghi XYbh]bZcfa Uh]cb`fY`Uh]b[`tc.