

MECH9420

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<u>9b[]bYYf]b[`⊕Xi glf]U`HfU]b]b[</u>`–`⊕Xi glf]U`'HU]b]b[`ei Ygh]cbg

- <u>I BGK "Gh Xm5VfcUX</u>"- gh XmUVfcUX gh XYbhYbei]f]Yg flcf"]bVci bX gh XYbhgŁ
- I BGK '9I W.Ub[Y'-ghi XYbhYI W.Ub[Y'Ybei]f]Yg'fZcf']bVci bX'ghi XYbhgŁ
- I BGK :: i h fY Gh XYbhg dch bh U`gh XYbh Ybei]f]Yg

7 ci fgY'8YHJ]`g 7 fYX]hDc]bhg'*' Gi a a UfmcZh\Y'7 ci fgY

%" @YWi fYg'hc`]bhfcXi WY'dfcdYfh]Yg'cZWca dcg]hY'a UhYf]U`gž'a]Wfc`UbX'a UWfc!a YWXUb]WU`ghi X]Yg &" < UbXg!cb``UVcfUhcfmUbX`hYUa !k cf_'hc`Udd`mZ bXUa YbhU``WcbWYdhg`]b`]b`i bXYfghUbX]b[`h\Y a UhYf]U``dfcdYfh]Yg`UbX`h\Y]f`i gY`]b`Yb[]bYYf]b[`Udd`]WUh]cbg"



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	a YUb]b[Zi `Z]bX]b[g`cZUfh]WYg`fYj]Yk YX3
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	5fY`U```g]a_]`Uf]h]Yg`UbX`X]ZYfYbWYg`cZ]XYUg`UbX`fYgYUfW\`ci_hWca_Yg`fY`UhYX`hc`h\Y
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	fYaU]b`cV^YWi]jY`h\fci[\`gW]Ybh]Z]WZJWig`cf`Yj]XYbWY`UbX`gHUh]gh]Wg"

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% FYgi `h'UbU`mg]g`UbX`a YWXUb]WU``WXUfUWHYf]gUh]cb`k]h\`X]gW gg]cbg. `fA Uf_. `(\$Ł% 7 UfVcb#9dcl m

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- &" 5 a_ bdNee[hWfWef dNeg 'fe, 6 dSi E fdNee he E fdS[` S` V US 'Ug 'SfWE fdW YfZ / fiS` V ? a Vg 'ge /7 fi
- ' "EZWSdfWefdWegfe, 6dSi EfdWeeheEfdS[`S`VUSNg/SfWEfdWYfZ/fiS`V?aVg/ge /7fi
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 - &" 5 a_bd/\ee[hWf/\efd/\eg/fe, 6 dSi E fd/\ee he E fdS[`S`V US/\g/SfWE fd/\V YfZ / fiS`V ? a Vg/ge / 7 fi
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- '"?Yj`Uf#9dcIm
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7 ca dUfY'h\Y'hYbg]`YžWca dfYgg]cb'UbX'g\YUf'hYgh'fYgi `hg'cZ'7UfVcb#9dcl mž'9 [`Ugg#9dcl mUbX' ?Yj `Uf#9dcl mWca dcg]hY

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@Yb[h\.`&`dU[Yg`Ž`5XX]h]cbU``)`dU[Yg`Zcf`[fUd\g#d`chg`UbX`X]gW gg]cbg

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&" 7 U`W``UhY`h\Y`UfYU``a Ugg`]b`_[#a &`cZh\Y`gUbXk]W\`dcfh]cb`cZh\Y`dUbY`"

' "G\ck 'Xg^i ad] [`Ye XadWSUZ W fckžih\Yb'Wca d`YhY'h\Y'Zc``ck]b['HUV`Y'Zcf'h\Y'&\$\$[#a & k cj Yb WUfVcb'd`miffYZYf'hc'h\Y'? 75: +&\$" Q8[TdW8cSUf[a`;`fWcba'Sfad'I `gl `gdfYUXg\YYhcb'h\Y'7 ci fgY A ccX`YŁ

%" I g]b['H\Y'gdfYUXg\YYh? 75: +&\$" Q8[TdW8dSUf[a`;`fWdba'Sfad'I `gl ž'dYfZcfa` 'H\Y'gUa Y W)`W``Uhjcbg`Ug`]b`fW£UVcj Y`Zcf`'H\Y`* %&[#a & 86`9![`Ugg`d`m'``8c`` af`g\ck `Z ```k cf_]b[g"`>i gh dfcj]XY`U`WcdmcZh\Y`Wca d`YhYX'gdfYUXg\YYhZcf`'H\YgY`Hk c`WUgYg"

&" 7 ca d`YhY'h\Y'[fYmlg\UXYX'WY``g']b'h\Y'Zc``ck]b[''hUV`Y'hc'&'XYW]a U`'d`UWYg.

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HfUbgZcfa 'h\Y`gYWh]cb'UWWcfX]b[.....((*")1*"++

7UfVcbid`mih\]W_bYgg`\$"&&a a`UbX; `Uggid`mih\]W_bYgg`\$") %a a

5bX'cVgYfj]b[`f\Y'LL!'UbX'MM'UIYg'WcbjYbh]cb'g\ckb'cb'f\Y'XfUk]b['cb'dU[Y'%/

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&" 7 U`W``UHY`H\Y`gYWgcb`acXi`i gž`NII`cZh\Y`gUbXk]W\``Ua]bUHY`]b`aa'#faa`k]XH\Ł" ' " 7 U`W``UHY`H\Y`acaYbhcZ]bYfn]Už`+I`cZh\Y`g]b[`Y`g_]b`]b`aa(#faa`k]XH\Ł" (" 7 U`W``UHY`H\Y`gYWgcb`acXi`i gž`NII`cZh\Y`g]b[`Y`g_]b`]b`aa'#faa`k]XH\Ł"

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%" 7 UWI`UHY`H\Y`VYbX]b[`gh]ZbYgg`fiUa]bUHY`ZYI i fU``f][]X]mi `Ua •∔I ŁcZh\Y``Ua]bUHY''K \UH\Wb`VY gU]X`UVci hH\Y`VYbX]b[`gh]ZbYgg`cZh\Y`g]b[`Y`g_]b`fY[]cb`W fYX`hc`H\Y`VYbX]b[`gh]ZbYgg`cZh\Y gUbXk]W\``Ua]bUHY`fY[]cb`]b`H\Y`I !I `X]fYWf]cb3`K \Uh]g`H\Y`aU]b`fYUgcb`Zcf`H\Y`X]ZYfYbWY3

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' " Gi [[YghU`` ahW`Udd`]WUhcb`cZh\Y`j UW i a `fYg]b`]bZ g]cb`dfcWYgg]b[`a Yh\cX`Zcf`U`W g]hY W bYbhh\Uhmci `WUb`h\]b_`cZz`Ug`cddcgYX`hc`Ub`YghUV`]g\YX`a Yh\cX"`6f]YZmYI d`U]b`k \Uh UXj Ubh [Yg'h\Y`i gY`cZh\Y`a Yh\cX`k ci `X`Vf]b[`hc`h\Y`Udd`]WUhcb`]b`UddfcI "%) \$`k cfXg"

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K f]hY'U'fYdcfhfl (' [Yg'Ug'U'[i]XYLcb'h\Y'a YW\Ub]WU`'hYgh]b['h\Uhimci'% fh]W]% hYXCkb'[fcid fYgi`hgL']b'Xif]b['h\Y'% f]cX'K Y_'(!%\$"'Ncif'fYdcfhigef']bWiXY'h\Y'Zc``ck]b['Y`YaYbhg']XYbh]Z]YX']b' Vc`X.

%" K f]hY h\Y YI dYf]a YbhU``

gcZkUfY'cihdihifCkb'[fcid'fYgi`hgŁ"

- 7 Ubimci 'UhhYa dhU'WU'W 'UhjcbicZh\Y'hYbg]'Y'ghfYggžhYbg]'Y'ghfU]b'UbX'hYbg]'Y'W\cfX'a cXi`i g`fgYY 5GHA '8' \$' - 'Uh'% "%z'% "&'UbX'% "' "%#% "' "%%fYgdYWjjY'mŁcZimci fick b'[fci d`fYgi `hg3'-Zgcž d`YUgY']bWi XY'mci f'UhhYa dh"
- 7 Ub mci 'Uhhya dh'U'WU'W 'Uhjob'oZa cXi `i g']b'VYbX]b['fgYY'5GHA '8+-\$'Uh'% "%"& fhUb[Ybh a cXi `i g'cb'mŁ'UbX'ZYI i fU'ghfYgg'Uh'VfYU_']b'% "%"% Ł3'=Zgcź'd'YUgY']bWi XY'mci f'Uhhya dh'

%" GiaaUf]gY h\Y_YmCVgYfj Uh]cbg mci a UXY"

- &" K f]hY i d'U'8]gW gg]cb cZFYgi `hg"
- ' "Ghuhy mcif'7cbWig]cbg"
- ("K f]hY`U`GhUhYa Ybh`YI d`U]b]b[`k \Uhimci `\Uj Y``YUfbYX`UVci hih\Y`bUhi fY`cZhmd]WD``**ZU]`i fY`a cXYg**`]b Wca dcg]hYg`Wca dUfYX`k]h\ž'Zcf`YI Ua d`Yža YhU`g"``Q]bh`7 cbg]XYf`h\Y`i gY`cZgi W\`hYfa g`Ug`Td[ffW UbX`VgUf['MC

EiYgh]cb')' &\$'a Uf_g

f%dU[Y'Ug'U'[i]XYŁ

K f]hY`U`Vf]YZfYZYWf]cb`cb`k\Uhimci `gYY`Ug`h\Y``YUfb]b[`ci hWca Yg`cZh\]g`Ugg][ba Ybh'f]b`Vi ``Yh'dc]bh'Zcfa / a UI "`) \$\$`k cfXgŁ"

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G\ci`X'h\Y`WcifgY`\UjY`Ubmbcb!Y`YWfcb]WUggYggaYbhigiVa]gg]cbžh\YgY`g\ci`X`\UjY`U`ghUbXUfX GW\cc``WcjYf`g\YYh

5```gi Va]gg]cbg`UfY`YI dYWYX`hc`VY`bYUhUbX`WYUf`migYhci h'`Mci f`fYgi `hg`UfY`h\Y`d]bbUWY`cZU```mci f`\UfX k cf_`UbX`g\ci `X`VY`hfYUhYX`k]h\`Xi Y`fYgdYWf`DfYgYbh]b[`fYgi `hg`WYUf`mi[]j Yg`h\Y`a Uf_Yf`h\Y`VYghW\UbVW cZi bXYfgHUbX]b[`mci f`a Yh\cX/Yj Yb`]Zh\Y`bi a Yf]WU``fYgi `hg`UfY`]bWcffYWf

A Uf_]b[`[i]XY`]bYg'Zcf'Ugg][ba Ybhgi Va]gg]cbg'k]```VY'dfcj]XYX'Uhih\Y'gUa Y'h]a Y'Ug'Ugg][ba YbhXYhJ]`g hc'Ugg]ghik]h\`a YYh]b['UggYggUV`Y'fYei]fYa Ybhg"'Gi Va]gg]cbg'k]``'VY'a Uf_YX'UWWcfX]b['hc'h\Y'a Uf_]b[[i]XY`]bYg'dfcj]XYX"

@UhY`dc`]Wm

K cf_`gi Va]hhYX``UhY`k]h\ci hUb`Uddfcj YX`YI hYbg]cb`Vmh\Y`Wci fgY`WccfX]bUhcf`cf`XY`Y[UhYX`Ui h\cf]hm]g gi VYWhc`U``UhY`dYbU`hmcZ`&\$`dYfWYbhf&\$i Ł`cZh\Y`a UI]a i a `a Uf_`dcgg]V`Y`Zcf`h\UhUggYgga Ybh`]hYa ž dYf`WU`YbXUf`XUm'

H\Y``UhY`dYbU`hm`]g`Udd`]YX`dYf`WU`YbXUf`XUmf]bWi X]b[`kYY_YbXg`UbX`di V`]W\c`]XUmgEh\Uhh\Y UggYgga Ybh`]g`cj YfXi Y"`H\YfY`]g`bc`dfc!fUhU`cZh\Y``UhY`dYbU`hmZcf`gi Va]gg]cbg`a UXY`dUfhk Umh\fci [\`U XUm'

K cf_`gi Va]hhYX`UZhYf`h\Y`*XYUX`]bY`Zcf`UVgc`i hY`ZU]```]g`bchUVW¥dhYX`UbX`U`a Uf_`cZnYfc`k]```VY`Uk UfXYX Zcf`h\UhUggYgga Ybh`]hYa "

: cf`gca Y`UggYgga Ybh`]hYa gžU``UhY`dYbU`hma UmbchVY`Uddfcdf]UhY"`H\YgY`UfY`WYUf`m`]bX]WUhYX`]b`h\Y Wci fgY`ci h`]bYžUbX`gi W\`UggYgga Ybhg`fYWY]j Y`U`a Uf_`cZnYfc`]ZbchWca d`YhYX`Vmh\Y`gdYW]ZJYX`XUhY" 9I Ua d`Yg`]bWi XY.

%" K YY_`mcb`]bY`HYghg`cf``UVcfUhcfmk cf_`k cfh\`U`ga U```dfcdcfh]cb`cZh\Y`gi VYWha Uf_žcf

&" C b`]bY'ei]nnYg'k \YfY'Ubgk Yfg'UfY'fY`YUgYX'hc'gh XYbhg'cb'Wca d`Yh]cbžcf

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UggYgga YbhidYfZcfa UbWYžmci 'UfY'Y`][]V`Y`hc'Udd`m'Zcf'GdYWJU``7cbg]XYfUhJcb'df]cf'hc'gi Va]hhJb['UbUggYgga Ybhicf'g]hhJb['Ub'YI Ua "

IBGK 'bck '\Ug'U'<u>]hhc'G]h#GiVa]hfi 'Y</u>žk \]W\'a YUbg'H\Uh]Zmci 'UhhYa dh'Ub'YIUa 'cf'giVa]hU'd]YWY'cZ UggYgga Ybhžmci 'UfY'XYWUf]b['mci fgY`ZZ]hYbci [\'hc'Xc'gc'UbX'WUbbch`UhYf'Udd`mZcf'GdYW]U` 7 cbg]XYfUh]cb"

: cf`XYHJ]`g`cZUdd`m]b['Zcf`GdYW]U``7 cbg]XYfUH]cb`UbX`WcbX]H]cbg`Zcf`H\Y`Uk UfX`cZgi dd`Ya YbHUfm UggYgga YbHž`d`YUgY`gYY`H\Y`]bZcfa UH]cb`cb`L BGK **'**g`<u>GdYW]U``7 cbg]XYfUH]cb`dU[Y</u>"

bch D`YUgY`bchY`h\Uhigh XYbhg`k]``bch`VY`fYei]fYX`hc`dfcj]XY`UbmXcW a YbhUfmYj]XYbWY`hc gi ddcfh'UVgYbWYg`Zfca`UbmWUggYg`a]ggYX`VYWUi gY`cZ'7CJ=8!% `di V`]W\YU`h\`a YUgi fYg`gi W\`Ug

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

IBGK `\Ug`Ub`cb[c]b[`Wcaa]haYbhhc`ZcghYf]b[`U`W`hifY`cZ`YUfb]b[`]bZcfaYX`VmUWUXYa]W]bhY[f]mi`5`` IBGK `ghiXYbhg`\UjY`U`fYgdcbg]V]`]mhc`UX\YfY`hc`h\]g`df]bW]d`Y`cZUWUXYa]W]bhY[f]mi`D`U[]Uf]ga ibXYfa]bYg`UWUXYa]W]bhY[f]miUbX`]g`bchhc`YfUhYX`UhIBGK "`B'SY[Sde_SfG@EI[eVW{`WVSege[`Y fZWiadVead[VWSeaXafZWdeS`V bSee[`YfZW_aXSekagdai`ž

D`U[]Uf]ga `]g`U`ImdY`cZ]bH´``YWi U``I\YZi'`=iWUb`IU_Y`a UbmZcfa gžZica `XY`]VYfUHY`W\YUH]b[``Ic`UWV]XYbHJ``m Vcdm]b[`Zica `U`gci fW'`k]I\ci HUW_bck `YX[Ya YbH`I BGK `\Ug`dfcXi WYX`U`k YVg]HY`k]I\`U`k YU`h\`cZ fYgci fWfg`Ic`gi ddcfhigh XYbhg`Ic`i bXYfgHUbX`UbX`Uj c]X`d`U[]Uf]ga žij]g]h`gh XYbh'i bgk "YXi "Ui #d`U[]Uf]ga " H\Y`@YUfb]b[`7YbHY`Ugg]ghg`gh XYbhg`k]I\`i bXYfgHUbX]b[`UWUXYa]W]bH'[f]hmUbX`\ck`bchIc`d`U[]Uf]gY" H\YmU`gc`\c`X`k cf_g\cdg`UbX`WUb`\Y`d`gh XYbhg`cbY!cb!cbY"

Mci 'UfY'U`gc`fYa]bXYX'h`UhWUfYZ ``h]a Y`a UbU[Ya Ybh`]g`Ub`]a dcftUbhdUfhcZgh XmUbX'cbY'cZh`Y]XYbh]ZYX`WUi gYg`cZd`U[]Uf]ga `]g`dccf`h]a Y`a UbU[Ya Ybh'`Gh XYbhg`g\ci `X`U``ck `gi ZJW]Ybh'h]a Y`Zcf fYgYUfW\žXfUZf]b[`UbX'h`Y`dfcdYf`fYZYfYbW]b[`cZgci fWYg`]b`dfYdUf]b[`U```UggYgga Ybh'HUg_g"

-Zd`U[]Uf]ga `]g`Zci bX`]b`mci f`k cf_`k \Yb`mci `UfY`]b`Z]fghmYUfžmci f`YVMi fYf`k]``cZYf`mci `Ugg]gHUbWY`hc]a dfcj Y`mci f`UVUXYa]Wg_]``g"`H\Yma UmUg_`mci `hc``cc_`Uhigca Y`cb`]bY`fYgci fWYgžUfHYbX`h\Y`@YUfb]b[7YbhYžcf`gca Yh]a Yg`fYgi Va]himci f`k cf_`k]h\`h\Y`dfcV`Ya `Z]I YX"`<ck Yj Yf`a cfY`gYf]ci g`]bgHUbWYg`]b`Z]fgh mYUfž`gi W\`Ug`gHYU`]b[`Ubch\Yf`ghi XYbhg`k cf_`cf`dUm]b[`gca YcbY`hc`Xc`mci f`k cf_ža UmVY`]bj Ygh][UHYX i bXYf`h\Y`Ghi XYbhA]gWcbXi WhDfcWYXi fYg"

FYdYUHYX'd`U[]Uf]ga `fYjYb`]b`Z]fghmYUfŁž'd`U[]Uf]ga `UZHYf`Z]fghmYUfž'cf`gYf]cig`]bgHUbWYgž'a UmU`gc`VY]bjYgh][UHYX'i bXYf'h\Y`GH XYbhA]gWcbXi WhDfcWYXi fYg"`H\Y`dYbU`h]Yg`i bXYf'h\Y`dfcWYXi fYg`WUb`]bWi XY U`fYXi Wh]cb`]b`a Uf_gž'ZJ]`]b[`U`Wci fgY`cf`Zcf`h\Y`a cghgYf]cig`a UHHYfg`f1]_Y`d`U[]Uf]ga `]b`Ub`\cbci fg h\Yg]gŁYjYb`gi gdYbg]cb`Zfca `h\Y`ib]jYfg]mh'H\Y`GH XYbhA]gWcbXi WhDfcWYXi fYg'UfY`UjU]`UVY`\YfY.

<u>k k k "[g"i bgk "YXi "Ui #dc`]Wn#XcWi a Ybhg#ghi XYbha]gWcbXi WhdfcWYXi fYg"dXZ</u>

5₩UXYa]W≠bZcfaUh]cb

7 fYX]hdc]bhg

-adcfHJbh@]b_g

5ddYbX]I. '9b[]bYYfg'5ighfU`]U'f95E'DfcZYgg]cbU`'9b[]bYYf'7cadYhYbWm GHJbXUfX

Dfc[fUa ⁺=bHYbXYX`@YUfb]b[℃iHWcaYg	
?bck`YX[Y'UbX'g_]``VUgY	
D9%"%7cadfY\Ybg]jYžh\YcfmVUgYX`ibXYfgHJbX]b[`cZh\Y`ibXYfd]bb]b[`bUhifU``UbX d\mg]WJ``gW]YbWYg`UbX`h\Y`Yb[]bYYf]b[`ZibXUaYbHJ`g`Udd`]WJV`Y`hc`h\Y`Yb[]bYYf]b[`X]gW]d`]bY	
D9%"&`7cbWYdhiU``ibXYfghUbX]b[`cZh\Y`aUh\YaUh]WgžbiaYf]WU``UbU`mg]gžghUh]gh]WgžUbX WcadihYf`UbX`]bZcfaUh]cb`gW]YbWYg`k\]W\`ibXYfd]b`h\Y`Yb[]bYYf]b[`X]gW]d`]bY	
D9%" `=b!XYdh\`i bXYfghUbX]b[`cZgdYW]U`]ghVcX]Yg`cZ_bck `YX[Y`k]h\]b`h\Y`Yb[]bYYf]b[X]gW]d`]bY	
D9%"(`8]gWYfba YbhcZ_bck`YX[Y`XYjY`cda YbhUbX`fYgYUfW\`X]fYWfjcbg`k]h\]b`h\Y Yb[]bYYf]b[`X]gWjd`]bY	
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D9%"*1 bXYfgHJbX]b[`cZh\Y`gWcdYždf]bWjd`YgžbcfagžUWWcibHJV]`]h]Yg`UbX`VcibXg`cZ gigHJ]bUV`Y`Yb[]bYYf]b[`dfUWf]WY`]b`h\Y`gdYWJZ]WX]gWjd`]bY	
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