

# PTRL3001

F YgYfj c]f'9b[ ]bYYf]b[ '6

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

7ci fgY`Cj Yfj ]Yk

GHJZZ'7cbHJW`8YHU]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]`UV]]m	@cWJhcb	D\cbY
: i feUb`@Y!<i ggU]b	z feUb"i ggU]b4 i bgk "YXi "Ui	H67	&%-`H9H6	-', ) `) % +

GWXcc``7cbHJW`bZcfa Uh]cb

GWXcc``cZA ]bYfU`g`UbX`9bYf[ mF Ygci fWg  
C`X`A U]b`6i ]X]b[ ž@Yj Y`%ž%) - `fP %) Ł  
I BGK `GMBB9MBGK `&\$) &5I GHF 5@5

[9b\[ \]bYYf\]b\[ `Gh XYbhGYfj \]Wg`](#)

9. `a Yfy`hYUW]b[ 4 i bgk "YXi "Ui

K . `k k k "Yb[ ]bYYf]b[ "i bgk "YXi "Ui #a ]bYfU`g!YbYf[ mFYgci fWg

7ci fgY'8YHJ]g

7fYX]hDc]bqg '\*

Gi a a UfmicZ\Y'7ci fgY

F YWcj YfmZUWc fgz'a cV]]gUhc bZ'X]gd'UW'a YbhUbX'gk YYd'YZWYbWYg": fUW]cbU'Zck 'UbUm]g]UbX X]gd'UW'a YbhYZWYbW'< YHfc[ YbY]ImUbX'[ fUj ]Im]gY[ fY[ Uh]cb'UbX'hY]f'YZYW'cb'fYWcj Yfn'K UHf'UbX [ Ug'Wcb]b[ "'I bghUXm]ghUH'ZY'X'k UHf'j]bZi I 'WU'W'Uh]cbg''8YHfa ]bUh]cb'cZUei ]ZYf'dUfUa YHfg'Zca \]ghcfma UH]X]b[ "'DgYi Xc'fY'Uh]j Y'dYfa YUV]]ImUbX'j Yfh]WU'Yei ]]Vf]i a "'8YW]bY'W fj Y'UbU'm]g]"

7ci fgY '@YUfb]b[ 'Ci hWca Yg

5ZYf'gi WYggZ 'mWca d'Yh]b[ 'h]g'Wci fgYz'nci 'g\ci 'X'VY'UV'Y'hc.

@YUfb]b[ 'Ci hWca Y	95'GHJ[ Y'%7ca dYHbWYg
%'I bXYfghUbX'Z bXUa YbhU'a YWU]b]ga g'fYgdcbg]V'Y'Zcf Zi ]X X]gd'UW'a Ybhcb'U'dcfY'gWY'Y ]b'U'fYgYfj c]f'fcW'Z'gi W'Ug ]bhYfZUW]U'h'bg]cbZk YH]U]]mz'WUd]]UfmdfYggi fY'UbX'hY]f a YUgi fYa Ybh]W]b]ei Yg	D9%%
&'I bXYfghUbX'Z bXUa YbhU'a YWU]b]ga g'fYgdcbg]V'Y'Zcf ]a V]V]h]cb'UbX'XfU]bU[ Y'X]gd'UW'a Ybhg	D9%%
' "'I bXYfghUbX'Z bXUa YbhU'a YWU]b]ga g'fYgdcbg]V'Y'Zcf j Yfh]WU' YeI ]]Vf]i a 'UbX'Zi ]X'X]gh]Vi h]cb' ]b'fYgYfj c]f'fcW_	D9%&ZD9%)
(' "I bXYfghUbX'Z bXUa YbhU'a YWU]b]ga g'fYgdcbg]V'Y'Zcf Zi ]X fY'Uh]j Y'dYfa YUV]]m]b' h'c!d\UgY'UbX'h'fY'Y'd\UgY'gmg]h'a g	D9%%"ZD9&%"
) "'I bXYfghUbX'VUg]Wa ]W'cgWcd]WU]b]X'a UW'cgWcd]WfYWcj Yfm YZ]WYbWYg'Zcf'hY'fYgYfj c]fg'dfcXi W'X'i bXYf'bUhi fU'cf'ZcfW'X k UHf'Zi I 'UbX'hY' ]bZi YbW'cZa cV]]m]fUh]cZ'YHfc[ YbY]ImUbX [ fUj ]Im]cb'hY'cj YfU'c] fYWcj Yfm	D9%" 'ZD9&'&ZD9&%"
*"'8YHfa ]bY'dgYi Xc!Z bW]cbg'UbX'Udd'm]hYa 'hc'fYgYfj c]f'UbX Zi ]X'dfcdYfh]Yg	D9&'"
+'5dd'm]bUhi fU'k UHf'Zi I 'a cXY'g	D9&'"&ZD9' "(
, "'I bXYfghUbX'hmdYg'cZk Y'XYW]bY'fUH]g'UbX'i bXYfghUbX'hY]f fc'Y ]b'ZY'X'dfcXi W]cb'ZcfYWUgh]b[ 'UbX'fYgYfj Yg'Ygh]a Uh]cb	D9&' "ZD9' "'

HYUW]b[ 'GhfUH[ ]Yg'

D'YUgY'fYZf'hc'hY' ]bZcfa Uh]cb' ]b'A ccX'Y

## 5ggYgga Ybh

### 5ggYgga YbhHUg\_g

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E i ]n`%:	' \$i	%9/\$+#&\$&%\$).\$\$'DA	%ž'&ž' ž( ž)
: ]bU`9I Ua`	) \$i	9I Ua`hja YHUV`Y	%ž'&ž' ž( ž) ž*ž+ž,
5gg][ ba Ybh&`	) i	' \$/\$+#&\$&%\$).\$\$'DA	*ž+
5gg][ ba Ybh`7 UgY`cZGh Xm` %:	% i	' \$/\$+#&\$&%\$).\$\$'DA	( ž)

### 5ggYgga Ybh8YHJ]`g

5ggYgga Ybh%`E i ]n`%

8YHJ]`g.

E i ]n`%

5ggYgga Ybh&` : ]bU`9I Ua`

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5ggYgga Ybh' .`5gg][ ba Ybh&`

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Wcb]b[ `UbX`dYHfc`Yi a`fYgYfj Yg

5ggYgga Ybh( .`5gg][ ba Ybh`7 UgY`cZGh Xm`%

8YHJ]`g.

C ]`fYWcj YfmiWU`W`U]cbg


F Ygci fWg

F YWca a YbXYX'F Ygci fWg

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

# Gi Va ]gg]cb`cZ5ggYgga YbhiHUg\_g

H\Y`GWcc`Ug`XYj`Y`cdYX`U`[ i ]XY`]b`Y`fc`Y`d`mci`k`Y`b`gi`Va`]h]b[ `U`Wci`fgY`Ugg][ ba`Ybh`

K`Y`YbWci`fU[ `Y`mci`fc`fYh]b`U`WcdmciZy`YfmUgg][ ba`Ybhgi`Va`]hYX`Zcf`UggYgga`YbhZcf`mci`f`ck`b`fYWcfX`Y`]h`Yf`]b`U`fXWcdmci`f`Y`YWfcb]WZcf`a`"

5`UggYgga`Ybh]a`i`gh`Uj`Y`Ub`UggYgga`YbhWcj`Yf`g`Y`YhU`hUW`YX`"

## 7ci fgY`Wca`d`Yh]cb

7ci`fgY`Wca`d`Yh]cb`fYei`]fYg`gi`Va`]gg]cb`cZU`UggYgga`Ybh]hYa`g":`U]i`fY`fc`gi`Va`]hU`UggYgga`Ybh]hYa`g`a`UmfYgi`h]b`hY`Uk`UfX`cZUb`i`bgUhgZUWcfm:`U]i`fY`fl`:`E[`fUXY`Zcf`hY`7ci`fgY`i`b`Ygg`gdYW]U`Wcbg]XYfU]cb`Ug`VYb`gi`Va`]hYX`UbX`Uddfcj`YX`D`YUgY`bchY`Z`U`Wca`d`Yh]b`Wri`i`fX`Y`cZ)`\$i`]g`Udd`]YX`fc`hY`Z]bU`UggYgga`Ybh`

## @UH`Gi`Va`]gg]cb`cZ`Ub`5gg][ ba`Ybh

:`i`a`Uf\_g`Zcf`Ub`Ugg][ ba`YbhUfY`cb`mdcgg]V`Y`k`Y`b`Ub`Ugg][ ba`Ybh]g`fYW]j`YX`Vm`hY`Xi`Y`XUH`"

K`Y`i`bXYfg]h]b`X`h`U`h]h]a`Yg`mci`a`UmbchVY`UV`Y`fc`gi`Va`]hU`b`Ugg][ ba`Ybh]cb`h]a`Y`Z`UbX`hY`GWcc`k`]`UW`Wca`a`cXUH`U`bmZ]f`UbX`fY`Ugcb`UV`Y`I`h]bg]cb`"K`Y`k`ci`X`fYWca`a`YbX`mci`fYj`]k`hY`I`BGK`GdYW]U`7`cbg]XYfU]cb`[ i ]XY`]b`Yg`-`gYY`gYW]cb`VY`ck`"

@UH`gi`Va`]gg]cb`k`]`bchVY`UW`WdhYX`UbX`k`]`VY`Wcbg]XYfYX`Ug`bc`gi`Va`]gg]cb`"

## GdYW]U`7`cbg]XYfU]cb

Mci`W`Ub`Udd`miZcf`gdYW]U`Wcbg]XYfU]cb`h`fci`[`H`Y`Bi`WYi`g`Gh`XYbh`<i`V`k`Y`b`]`b`Ygg`cf`c`h`Yf`W]fW`a`gh`Ub`W]g`]b`h`f`Z`f`Y`k`]h`mci`f`UggYgga`Ybh`d`Y`Z`cf`a`Ub`W`"G]W`b`Y`gg`za`]g`UXj`Ybh`fY`cf`c`h`Yf`W]fW`a`gh`Ub`W]g`VY`mcbX`mci`f`Wcb`f`c`a`Um`

- DfYj`Ybh`mci`Z`ca`Wca`d`Yh]b[ `U`Wci`fgY`fYei`]fYa`Ybh`
- ?`YYd`mci`Z`ca`U`h]b`X]b[ `Ub`UggYggUV`Y`UW]j`]m`
- G`hd`mci`gi`Va`]h]b[ `UggYggUV`Y`k`cf`\_`Zcf`U`Wci`fgY`
- G][`b]Z]W]b`h]mi`U`Z`Y`W]mci`f`d`Y`f`Z`cf`a`Ub`W`]b`UggYggUV`Y`k`cf`\_`Z`VY`]h]U`Z`cf`a`U`Y`b`X]c`Z`g`Ya`Y`gh`Yf`Y`I`Ua`]b`U]cb`Z`U`W`Ugg`h`g`h`U`U`V`c`f`U`h`f`m`h`g`h`U`g`Ya`]b`Uf`d`f`Y`g`Y`b`h]h]cb`cf`U`b`mcb`h`Yf`Z`cf`a`c`Z`UggYgga`Ybh`

K`Y`Ug`\_`h`U`h]mci`d`Y`UgY`Wcb`hU`W`hY`7`ci`fgY`7`cbj`Yb`cf`]a`a`YX]UH`mcbW`mci`Uj`Y`Wca`d`Y`h]X`hY`gdYW]U`Wcbg]XYfU]cb`Udd`]W]h]cb`Z`bc`U`h]f`h`Ub`cb`Y`k`YY`\_`Z`ca`gi`Va`]gg]cb`"

A` `W]` `h`Yb``%` `%` `%` `%` ` ` `%

- I BGK '@YUfb]b[ '7YbfY!' [k k k "Wi bgk "YXi "Ui](#)
- 7 ci bgY``b[ 'gi ddcfh! [k k k "Wci bgY``\]b\[ "i bgk "YXi "Ui](#)

9ei ]hUV`Y`@YUfb]b[ `GYfj ]Wg`U]a g`rc`dfcj ]XY`U``ghi XYbhg`k ]h`U`ZY`UbX`WcbZ]XYbh]U`gYfj ]W`h`Uh`dfcj ]XYg`dfUW]W]`gi ddcfhrc`Ybgi fY`h`Uhmc`i f`Y`U`h`WcbX]hcb`XcYgbfhiUXj YfgY`mUZYWimci f`ghi X]Yg`  
[\ftdg.#gh XYbhi bgk "YXi "Ui #/g](#)





5 WUXYa ]W#Zcfa Uh]cb

7 ci fgY`F Ygi `hg

: cf`XYHU]g'cb'l BGK `UggYgga Ybhdc`]Wzd`YUgY`j ]g]h [k k k "gh XYbhi bgk "YXi "Ui #UggYgga Ybh](#)

#`gca Y`]bghUbWg'mci f`Z]bU`Wci fgY`fYgi `ha UmVY`k ]h\Y`X`UbX`bchfY`YUgYX`cb`hY`l BGK `d`UbbYX`XUH`" H\]g`]g`]bX]WUH`X`VmU`Wci fgY`[ fUXY`fYgi `hcZY]hYf.

- @9`-`]bX]WUH`g'mci `Uj Y`bchWca d`Yh`X`cbY`cf'a cfY`]h'a g`cZUggYgga Ybh`cf
- K 8`-`]bX]WUH`g`hYfY`]g`Ub`]ggi Y`k ]h`cbY`cf'a cfY`Ugg][ ba Ybh`cf

- VfcUXVUbX`WcbbYWjcb`f&) \*`\_V]hgYWcf`ZJghYfŁ
- UV]`]mhc`j`]Yk`ghfYUa`]b[`j`]XYc`f\][`cf`ck`XYZ]b]hcb`I`BGK`HJ`cdh]cbgŁ

A cfY`]bZcfa`Uhcb`UVci`hgmgHya`fYei`]fYa`Ybhg`]g`Uj`U]`UV`Y`  
Uh`k`k`"gh`XYbhi`bgk`"YXi`"Ui`#a`ccX`Y!gmghYa`!fYei`]fYa`Ybhg`

5W\_bck`YX[ Ya YbhcZ'7ci bHfm

K Y`UW\_bck`YX[ Y`hY`6YXY[ U`dYcd`Y`k`c`UfY`hY`hfUX]hcbU`W`gfcX]Ubg`cZhY`UbXg`cb`k`\\W`I`BGK  
?Ybg]b[ hcb`Wla`di`g]g`cWU`hYX"

