

# PTRL2010

6i g]bYgg`DfUWjVWg`]b`h\Y`DYhfc`Yi a`bXi gfm

HYfa`H\FYY`##`&\$&\$

GWcc`cZA`]bYfU`g/`9bYf[mF`Ygci`fW`g`9b[ ]bYf]b[ `##`I`BGK`9b[ ]bYf]b[



7 ci fgY`Cj Yfj ]Yk

GhJZz7cbHJWk8YHJ]`g

7cbj Ybcfg

B Ua Y	9a U]`	5j U]UV]`]m	@cWJhcb	D\cbY
M]b[ `8U`K Ub[	m]b[ XU"k Ub[ 4 i bgk "YXi "Ui	C b`F Yei Ygh		

7 ci fgY'8YHJ`g

7 fYX]hDc]bhtg '\*`

Gi a a UfmicZ\hY'7 ci fgY

7 ca a i b]WU]cb'g\_]`g. '6UW[ fci bX'fYgYUfW\Zcf]bHfj ]Yk g'UbX [ i ]XY]bYg'Zcf'WcbXi W\Xi f]b[ ]bHfj ]Yk g" A YY]b[ 'g\_]`g" 'DfYdUf]b[ 'k f]HfYb'fYdcfhtgža Ya cfUbXU'UbX'fYgi a Yg" 'C fU'dfYgYbH]cb'g\_]`g'UbX'g]XY dfYdUfU]cb" '9h.]WU' ]ggi Yg' ]b'dYfC'Yi a ' ]bXi ghfm"

6i g]bYgg'DfUW]Wg. '>c]bhJ Ybhi fYgždfcXi W]cb'g\Uf]b[ 'WcbfUW]gž[ Ug'WcbfUW]gžc]'UbX'[ Ug'Wca dUbm g]fi W\ fYgž'hdYg'cZ]bHfYgž'UW]YU[ Y'UbX'fYgYfj Yg'UW\i ]g]h]cbžZUfa ]b[ #ZUfa ci hgž'Wca dUbm]bbi U' fYdcfhtgž'Wca dUbm]gdYW]U'fYdcfhtgž'fYgYfj Yg'fYdcf]b[ ž'fY'U]h]cbg'k ]h\ ; cj Yfba Ybhtg'UbX'dUf]bYfg"

7 ci fgY'5]a g

H\]g'Wci fgY'U]a g'hc'\Y'd'g]i XYbhtg'!

% Hc ]a dfcj Y'j YfVU'UbX'k f]HfYb'Vi g]bYgg'dfYgYbH]cb'UbX'Wca a i b]WU]cb'g\_]`g"  
&" Hc '[ ] Y'Ub'UddfYW]U]cb'cZc]'UbX'[ Ug' ]bXi ghfmVi g]bYgg'dfUW]Wg"

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

5Zf'f'gi W]W]ggž 'mWca d'Y]b[ 'h.]g'Wci fgYž'mci 'g\ci 'X'VY'UV'Y'hc.

@YUfb]b[ 'Ci hWca Y	95'GHU[ Y'%7ca dYHbW]Yg
% DfYgYbH]hYa gY'j Yg'UbX'Ub'Uf[ i a YbH]b'U'dfcZ]gg]cbU'UbX YZYW]j Y'a UbbYfž]b'dYfgcbž'cfU'mUbX' ]b'k f]h]b[ 'i g]b[ 'g]a d'Y Vi g]bYgg'9b[ ' ]g\	D9' "&žD9' "( žD9' ")
&" I bXYfgh]UbX'Vi g]bYgg'fYfa ]bc'c[ mUbX'dfUW]W]g'cZ\hY'c]' / '[ Ug ]bXi ghfm	D9%*
' " I bXYfgh]UbX'hY'Y'Ya Ybhtg'cZdYfC'Yi a 'Uk žc]'UbX'[ Ug UW]ci bh]b[ 'UbX'fYgYfj Yg'Ygh]a U]h]cb	D9%)
(" I bXYfgh]UbX'hY'VUg]W]g'cZYbj ]fcb]a YbH]U'dfchYW]cb'UbX'hY W]U'Yb[ Yg'UbX'cddcf]i b]h]Yg'dfYgYbH]X'Vm]g\U'Y'[ Ug'UbX'WcU' gYUa '[ Ug	D9%*
)" I bXYfgh]UbX'hY'VUg]W]g'cZYa d'cma YbH]WcbfUW]g	

HYUW]b[ 'G]fU]hY[ ]Yg'

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

# 5ggYgga Ybh

## 5ggYgga YbhHUg\_g

5ggYgga YbhHUg_	K Y][ \h	8i Y'8UH	Gh XYbh@YUfb]b[ Ci hWta Yg'5ggYggYX
K f]h]b[ 'G_]`g`	&\$i	: f]XUmK YY_`-	%ž&ž' ž(
DfYgYbhU]cb'G_]`g`		.<<B            4 @ 8P	<<B            %ž&ž' ž(
9I Ua `	) \$i	' da !) da ž' \$h' Bcj	%ž&ž' ž(

## 5ggYgga Ybh8YHU]`g

5ggYgga Ybh% 'K f]h]b[ 'G\_]`g`

GhUfhXUH. 'Bch5dd`]WVY

8YHU]`g.

5 %\$\$\$'k cfX`YggUmcb`U'gYhhd]WfY`UH`X`hc`h`Y`Wci`fgY`WcbhYbh`Mci`k`J``VY`UggYggYX`cb`mci`fi`gY`cZ`dfcdYf`UbX`X]fYVh9b[ `]g`"

## 5ggYgga Ybh& 'DfYgYbhU]cb'G\_]`g`

GhUfhXUH. 'Bch5dd`]WVY

8YHU]`g.

~E @E : C8JJ FI 8C GI <J<EK 8K @FE K F 9< ?<C;%\$E MhY`dd`E`F`D`c]`E` .<<B`dfYgYbhU]cb`cb`U`hd]WfY`UH`X`hc`dYf`c`Yi`a`Yb[ `]bYYf]b[ " `Mci`k`J``VY`UggYggYX`cb`h`Y`ghf`W`fY`UbX`WUf]micZnci`f`g`]XYg @= 8GGC@89C E`XY`j`Yfm`

8E

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

5ggYgga Ybh' . '9I Ua

8YHU]`g.

5 `k`c`l`ci`f`YI`Ua`Wc]`Yf]b[ `h`Y`Y`W`fY`W`cb`h`b`h`b`ch`fY`UH`X`hc`W`c`a`a`i`b]WU]cb`g\_]`g`"

5 hYbXUbW`F Yei ]fYa Ybhg

Gh XYbhg`UFY`ghfcb[ `mYbWci fU[ YX`hc`UhhYbX`U`WUggYg`UbX`fYj ]Yk ``YWhi fY`fYWcfX]b[ g"

7 ci fgY`GWXYXi `Y

[J \]Yk`WUgg`hja YhUV`Y](#)

H]a YhUV`Y`

8UhY	HmdY	7cbhYbh
K YY_%`%(`GYdhYa VYf! %`GYdhYa VYf	@YWhi fY	DYhfc`Yi a `: ]gWJ`Dc`]Wm
K YY_`&.`&%GYdhYa VYf! &)`GYdhYa VYf	@YWhi fY	DYhfc`Yi a `5ggYhg`UbX`F YgYfj Yg
K YY_`.`&`,`GYdhYa VYf! &`C`WtcVYf	@YWhi fY	DYhfc`Yi a `9bj ]fcb`a YbhU`Dc`]Wm
K YY_`(`.)`C`WtcVYf!`-` C`WtcVYf	@YWhi fY	I bWcbj Ybh]cbU`F Ygci fWg
K YY_)`. `%&C`WtcVYf!`%*` C`WtcVYf	@YWhi fY	DYhfc`Yi a `5VWci bh]b[
K YY_`+.`&`*`C`WtcVYf!`\$` C`WtcVYf	@YWhi fY	K f]h]b[ `G_]`g
K YY_`,`&`Bcj Ya VYf!`*` Bcj Ya VYf	@YWhi fY	DfYgYbhU]cb`G_]`g
K YY_`-.`-`Bcj Ya VYf! %`Bcj Ya VYf	@YWhi fY	7 UfW!i d`K YY_`
K YY_`%\$.`%*`Bcj Ya VYf! &\$`Bcj Ya VYf	@YWhi fY	7 UfW!i d`K YY_`

F Ygci fWg

F YWca a YbXYX'F Ygci fWg

BchiUj UjUVY

7ci fgY'9j U'i Uhcb'UbX'8Yj Y'cda Ybh

5hHY'YbX'cZYUW'Wci fgYzU'ghi XYbfg'k j'\Uj Y'hY'cddcfhi b]mhc'Wca d'YHY'U'Wci fgY'Yj U'i Uhcb'Zcfa "  
H\YgY'Ubcba ci g'gi fj Yng'\Y'd'i g'i bXYfgtUbX'mci fj jYk g'cZHY'Wci fgYz'mci f'YWHi fYfg'UbX'hY'Wci fgY  
a UHYfjU'g"K Y'UFY'Wcbhbi ci g'm]a d'fcj ]b[ 'ci f'Wci fgYg'VUgYX'cb'ghi XYbhZYXVUW'z'UbX'mci f'dYfgdYWHj Y  
]gj U'i UVY"

: YXVUW\_ ]g[ ]j Yb'j ]U' \hdg. #gh XYbhi bgk "YXi "Ui #a mYI dYfjYbW'UbX'mci 'k ]'Vh\$ %o %o

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

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

K`Y`YbWci`fU[`Y`mci`hc`fYhU]b`U`Wc`dmcZYj`YfmUgg][`ba`Ybhgi`Va`]h]X`Zcf`UggYgga`YbhZcf`mci`f`ck`b`fYWc`fX`Y]h`Yf`]b`\UfXWc`dmc`f`Y`YWfcb]WZcfa`"

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

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

:`i`a`Uf\_g`Zcf`Ub`Ugg][`ba`YbhUfY`cb`mdcgg]V`Y`k`\Yb`Ub`Ugg][`ba`Ybh]g`fYVW]j`YX`Vmi`h`Y`Xi`Y`XUH`"

K`Y`i`bXYfghU`bX`h`UhUh]a`Yg`mci`a`UmbchVY`UV`Y`hc`gi`Va`]hU`b`Ugg][`ba`Ybhcb`h]a`Yz`UbX`h`Y`GWcc`k`]`UW`c`a`a`cXUH`UbmiZ]f`UbX`fYUgcbUV`Y`Yi`h]bg]cb`"K`Y`k`ci`X`fYWc`a`YbX`mci`fYj`]Yk`h`Y`I`BGK`GdYWU`7`cbg]XYfU]cb`[ i ]XY`]b`Yg`-`gYY`gYW]cb`VY`ck`"

@UH`gi`Va`]gg]cb`k`]`bchVY`UW`W`dhX`UbX`k`]`VY`Wc]bg]XYfYX`Ug`bc`gi`Va`]gg]cb`"

## GdYWU`7`cbg]XYfU]cb

Mci`W`b`Udd`mZcf`gdYWU`Wc]bg]XYfU]cb`h`fci`[`H\Y`Bi`WYi`g`Gh`XYbh`<i`V`k`\Yb`]`bYgg`cf`ch`Yf`W]F`W`a`ghU`b`W`g`]b`h`f`Z`Y`f`k`]h`mci`f`UggYgga`Ybh`d`Y`f`Z`c`fa`UbW`"G]W`b`Yggza`]gU]j`Ybh`fY`cf`ch`Yf`W]F`W`a`ghU`b`W`g`VY`mcbX`mci`f`Wc]bfc`a`Um`"

- DfYj`Ybh`mci`Zca`Wc`a`d`Y`h]b[ `U`Wci`fgY`fYei`]fYa`Ybh`
- ?`YYd`mci`Zca`UH`Y`bX]b[ `Ub`UggYggUV`Y`UW]j`]m`
- Ghc`d`mci`gi`Va`]h]b[ `UggYggUV`Y`k`cf`\_`Zcf`U`Wci`fgY`
- ~~G]h]b]W]Z]W]b]z]w]~~ mci`f`d`Y`f`Z`c`fa`UbW]b]m]UggYggUV`Y`k`cf`\_`Z`VY`]hU`Zcfa`U`YbX]c`Z`gYa`Ygh`f`Yi`Ua`]bU]cb]z`U`WUgg`h`gh]U`UV`c`fU`h`fmi`h`gh]U`gYa`]bUf`d`fY`gYb]h]cb`cf`Ubmich`Yf`Zcfa`c`Z`UggYgga`Ybh`

K`Y`Ug`\_`h`Uh`mci`d`Y`Ug`Y`Wc]b]hU`h`h`Y`7`ci`fgY`7`cbj`Ybcf]a`a`YX]UH`mcbW`mci`Uj`Y`Wc`a`d`Y`h`X`h`Y`gdYWU`Wc]bg]XYfU]cb`Udd`]W]h]cb]z]bc`UH`f`h`Ub`cb`Y`k`YY`\_`Zca`gi`Va`]gg]cb`"

A`cfY`XYhU]g`cb`gdYWU`Wc]bg]XYfU]cb`W`b`VY`Zci`bX`Uh`[k`k`k`"gh`XYbh`i`bgk`"YXi`"Ui`#gdYWU`!Wc\]bg\]XYfU\]cb](#)

## Gh`XYbh`Gi`ddcfh

H\Y`I`b]j`Yfg]m]UbX`h`Y`:`UW`h`mdfcj`]XY`U`k`]XY`fUb[`Y`c`Zgi`ddcfhgYfj`]W`g`Zcf`gh`XYbh]z`]bWi`X]b[.`

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

Mci f`YWñ fYf`UbX`h`Y`l` b]j` Yfg]mik ]`YI` dYWñmci` f`gi` Va` ]h`YX`Ugg][` ba` Yb`hg`UfY`hfi` `mimci` f`ck` b`k` cf`\_"`I` BGK  
`Ug`j` Yfm`WYUf`[` i` ]XY`]bYg`cb`k` \Uhd`U[ ]Uf]ga` ]g`UbX`\ck` `h`c`Uj`c]X`]h`D`U[ ]Uf]ga` ]g`i` g]b[ `h`Y`k` cfXg`cf  
]XYUg`cZch`Yfg`UbX`dfYgYb]b[ `h`Ya` `Ug`mci` f`ck` b`" `D`U[ ]Uf]ga` ]g`U`hmdY`cZ]b`h`Y`YWñ` U`h`Y`Z`h` `h`W]b`h`U`\_Y



5 WUXYa ]W#Zcfa Uh]cb

7 ci fgY'F Ygi `hg

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

#'gca Y']bghUbW'g'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' ]Ha g'cZUggYgga Ybh'cf

• VfcUXVUbX`WtbbYWjcb`f&) \*`\_V]hgYWcf`ZJgtYfŁ



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'i bhUV] ]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`]WUh]cb'UV`]jm	
D9%"%5dd`]WUh]cb'cZYghUV`]g\YX'Yb[ ]bYYf]b[ 'a Yh'cXg'hc'Wta d'YI'Yb[ ]bYYf]b[ 'dfcV'Ya gc`]b[	
D9%"&'&'i YbhUdd`]WUh]cb'cZYb[ ]bYYf]b[ 'hYW]b]ei Ygžhc'c'g'UbX'fYgci fW'g	
D9%" " '5dd`]WUh]cb'cZgmgHYa Uh]WYb[ ]bYYf]b[ 'gmbhYg]g'UbX'XYg][ b'dfcW'ggYg	
D9%"('5dd`]WUh]cb'cZgmgHYa 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'i bhUV] ]jm	
D9' "&'9ZYW]j Y'cfU`UbX'k f]hYb'Wta a i b]WUh]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' ") 'CfXYfma UbU[ Ya YbhcZgY'ž'UbX'dfcZYgg]cbU`WcbXi W'h	
D9' "*" '9ZYW]j Y'hYUa 'a Ya VYfg\]d'UbX'hYUa ``YUXYfg\]d	