! "#\$%&'("#)*(\$+&,-*-).)

?@#'@-#A\$&B\$(''#\$D.*(-(,(-&.)2\$;)'(.#'*

&/, 'Q)(7, +-(.: '#3'@#0(-(\$)\$'\$.' > #)+#,

@#0(-(\$)\$'R,%.\$'K#110)(.:'K#%,6,

- /A! K\$+,,+-'()'=)6(),,+()69'R+A'@:))']+,(4,+)
- (A! K\$+,,+-'()'",#-*(,)*,-9'R+A'>,+7()']#).+#7(.[(A! K\$+,,+-'()'>\$./,1\$.(*-9'R+A'M)),%\$'],%%:
- DA! K\$+, +-'()'L0+-()69'>-A'SW#+,)*,..\$'''(2-#)
- %A! LO.+(.(#)9'R+A'O,),"'_\$*D-#)
- 14! J\$'BT9.9600)+, '#R_" !31,19#!!**E**G4#**E**CF**E**14e2SR"2:#"QC+++()(')-2(,)-2(')-2(\$)-2(ETBT9.96800060T c OTB009.96108.471

=)6\(-\frac{1}{2}\)().\frac{1}{4}\(-\frac{1}{5}\)().\frac{1}{4}\(-\frac{1}{5}\)().\frac{1}{4}\(-\frac{1}{5}\)().\frac{1}{4}\(-\frac{1}{5}\)().\frac{1}{5}\(-

 $=)6\%(-/'PXX'(-'\$'4,7,\%51,).\$\%'*\#0+-,'()'6+\$11\$+'\$)4'*\#15\#-(.(\#)'\$)4'(-'4,-(6),4'.\#'5+,5\$+,'-.04,).-'3\#+*\#\%,6,'\,7,\\'3+,-/1\$)'=)6\%(-/\'A''Q5\#)'-0**,--30\\'*\#15\\,.(\#)'\#3'./(-'*\#0+-,9'-.04,).-'8(\\'2,'\$2\\,'.\#'8+(.,'*\\,\$+9)*4,b0\$.,\\:'4,7,\\#5,49\\\#6(*\\'',\#+6\$)([,49',33,*.(7,'5\$+\$6+\$5/-'\$)4',--$:-'8/(*/'*\#)3#+1'.\#'./,'*#)7,).(#)-'\#3-.\$)4\$+4'M1,+(*\$)'=)6\((-/\)A$

 $;E?'>\$./,\ 1\$.(*-'\#3'<(15\%,'\,''\,\$\,1\,,-R+A'M)\,)\,,\%'\,]\,,\%'':\\ >\$./,\ 1\$.(*\$\%'*\#)^*\,,5.-'\,8\,(\%'2\,,'()7\,,-.(6\$.,4'()'\$'+,-,\$+*/'5+\#C\,,*.'3\#*0--\,,4'\#)'6\$\,1\,,'./\,,\#+:A''<.04\,,).-'\,8\,(\%')$

S#\\\#8\\\05'M*.(7(.(,-

 $\label{eq:control_co$

 $\bullet ! \quad \& / \ , ' f \# 8 \$ + 4' f 06 / \ , -' > \ , 4(*\$\%') - . (.0. \ , '; f f > ?'Q) 4 \ , + 6 + \$ 40\$. \ , ' ^ (\#\#6(*\$\%' < (,)* \ , -' = 40*\$. (\#) 'J + \#6 + \$ 1 '\$. 'Q@ > \\ \& / (-'5 + \# \ , * . '\#33 \ , -' EP'\$ \$ 4 \ , 1(*' \ , \$ +'Q) 4 \ , + 6 + \$ 40\$. \ , ' O \ , - \ , \$ + * / < * / \# \$ + - / (5 - ' . \#' - .04 \ ,) - ' \ ,) \ , + () 6' . / \ , (+'CO) (\# + L'G) (\# - L'G) ($

 $0.(\%([,4'J,+D()]=\%1,+'J\$+\$6\#)'TPP'S\&\backslash O'\$)4'S())(6\$)'>\$.'"KH><',b0(51,).'\$7\$(\%\$2\%,'()'./,'Q@>'R,5\$+.1,).'\#3K/,1(-.+:\%'\&/,'-,*#)4'-011,+'\#3'./,'6+\$).()6'5,+(\#4'8\$-'4,7\#.,4'.\#'*\#).()0,4'\%(6\$)4'\$)4'*\#15\%,G'-:)./,-(-;1\#4,\%'N$

- •! $M06(,'M060+-#)9'M6,).9'<...,'S$+1'\)-0+$)*,'K#A$
- •! $R+h'O''+-1=0'O_1-h''+1=0'$
- •! <.,5/\$)(,'R0+\$)49'M)60-'K/, 1(*\$\\'K\#15\\$):
- •! ^\$+2\$+\$'"#12#--:9'O#--'K+,\$.(7,'<,+7(*,-

; '#@-&, *\$5BB&'(*

J+,H*#%,6,'B0.+,\$*/

 $S\$*0\%.:'1,12,+-'\$.'Q@>'/\$7,'\$66+,--(7,\%:'-\#06/.'.\#'(15+\#7,'] \\ \texttt{H}!E'-*(,)*,',40*\$.(\#)'()'./,'\\#8,+'R,\.\$$.#'2,..,+'5+,5\$+,'-.04,).-'3#+'*#\\,6,'-.04(,.-\'\&/,:'/\$7,'-5,\$+/,\$4,4'\$')012,+'#3'-*(,)*,'\$)4'1\$./,1\$.(*-'.,\$*/()6 +,3#+1'()(.(\$.(7,-h'O,*,).',33#+.-'/\$7,'()*\04,4'5\\$+.(*(5\\$.(#)'()'#),'#3'3(7,'-*/##\'4(-.+(*.k0)(7,+-(.:'5\\$+.),+-/(5-'() $@\#0(-(\$)\$'30)4,4'2:'\$'R,5\$+.1,).'\#3'=40*\$.(\#)'K/\$\%,)6,'"+\$).'.\#'()*+,\$-,'.,*/)\#\%#6:'()'./,'*\\$--+\##1-\!a'\&/,$;R, %.\$'O<\?'8(./'./, '@#0(-(\$)\$'<:-., 1(*'\)(.(\$.(7, 'J+#6+\$1';@\$<\J?'#33(*,'()'^\$.#)'O#06, \\&/,'R, \.\$'O<\9 30)4\$1,).\$\"6#\$\"(-'.#'(15+#7,'-.04,).'\\$\"/(7,1,).'()'1\\$./,1\\$.(*-9'-*(,)*,'\\$)4'.,*/)#\\$\"6:'./+\#06/'5+\#3,--(\#)\\$\" 4,7,\#51,).'3#+'.,\\$*/,+-9'\,\\$4,+-/(5'.+\\$()()69'.,*/)(*\\$\'\\$--(-.\\$)*,'\\$)4'-*(,)*,\\$\\\$1\\.\\$./,\\$1\\.\\$..\\$..\\$..\\$..\\$1\\.\\$..\\$1\\.\\$..\\$1\\.\\$..\\$1\\.\\$..\\$1\\.\\$1\ $0,*+0(.1,).*+3'-.04,).-9',-5,*(\$\%:'0)4,++,5+,-,).4'1()#+(.:'\$)4'3,1\$\,-04,).-9'().#'./,'-*(,)*,-'/\$-$ 2,,)'\$'/(6/'5+(#+(.:'()'./,'K#%,6,'#3'J0+,'\$)4'M55%,4'<*(,)*,-\$+4'./\$.',)49'<&=>'3\$*0%.:'1,12,+-9'5\$+.(*0\\\$+\\:'()'6,\#-*(,)*,-\\$\\)4*\#150.,+'-*(,)*,9'\\\$7,'2,,)'-0**,--30\\'()\\\$\\b0(\(+()6')01,\\\#0-'6\\\$\).-'./\\\#06/ 5+#6+\$1-'30)4,4'2:'L<\$9'./,'R,5\$+.1,).'#3'=40*\$.(#)'\$)4'&/,'L\$.(#)\$\'S\$*0\\.:\!\!\\\\\-,-,'30)4-'/\$7,'2,,)'5+(1\$+(\\: 4(+,*.,4'.#8\$+4'()H-,+7(*,'.+\$()()6'3#+'.,\$*/,+9'20.'/\$7,'\$\h-#'()*\04,4'5+,\h-,+7(*,'.,\$*/,+',40*\\$.(#)'\\$)4'./,'/\$)4-\h-#)'()-.+0*.(#)'#3'1(44%,'-*/##\'\$)4'/(6/'-*/##\'-.04,).-\!\K#)-(4,+()6'./\$.'-#1,'#3'./,-,'5+#6+\$1-'/\$7,'2,,)'() ,G(-.,)*,'3#+'1#+,'./\$)'3(7,':,\$+-9'2:'\$\"\+")-,+7\\$.(7,',-.(1\\$.,9'-,7,+\\$\"\/0)4+,4'.,\\$\"\,+-\\\$\)4'1#+,'./\\$\)'FP9PPP -.04,).-'/\$7,'2,).3(..4'3+#1'./,-,'.33#+.-A

S\$*0%.:'R,7,%#51,).