

#, / * +) & 1#*, %, %66*+ -&, 6(%G#1''% (% &) #89%P-. 6&1#*, &8%>#2''1\$%&, -%
V+#7&69%E61%*/F%WXYI%&\$%&) (, -(-%O*G(7(+1% (% & #8#19%' (+A9%&2+((\$%
1*%H((3%*, /#-(, 1#&8%&, 9%\$1. -(, 1%+(6*+-\$*+%, / * +) & 1#*, %1%) & 9%*A1&#, 1%
. , 8(\$%#1%'&\$%*1'' (+G#\$ (%*A1&#, (-%3+#+%G+#11(, %* , \$ (, 1%*/% (%\$1. -(, 1C%
E81''*. 2''% (%B, \$1#1. 1#*, %\$'' &88%*A1&#, %&88%+(J. #+(-%* , \$ (, 1\$1% (% & #8#19%
\$'' &88%' & 7(% (% #2''1% *% (89%*, %\$. 6''%* , \$ (, 1\$%&, -%*%*A1&#, %* 3#(\$%*/%
\$. 6''%* , \$ (, 1\$% 3* , %+(J. (\$1C% (% & #8#19%G#88%&\$#2, %&\$1&/%
+(3+(\$ (, 1&1#7(%&\$%#&#*\$, %A(1G((, % (% & #8#19%&, -% (%B, \$1#1. 1#*, % (%
; & #8#19%\$1&/%+(3+(\$ (, 1&1#7(%) & 9%A(-(\$#2, & 1(-%# , % (%E2+(() (, 1C%
O, 8(\$%*1'' (+G#\$ (%\$3(6#/#(-%# , % (%E2+(() (, 11%&, 9%(7&8. & 1#*, %*/%
\$1. -(, 1\$%A9% (% & #8#19%\$'' &88%+(8&1(%* , 89%*%2(, (+&8%\$1. -(, 1%
3&+1#6#3&1#*, %, % (%E0CPC%&, -%\$'' &88%# , % *%G&9%A(%* , \$1+. (-%&\$%&
6(+1#/#6&1#*, %A9% (% & #8#19%&\$%*% (%*) 3(1(, 6(%*/%&, 9%\$1. -(, 1%*+%&
+(3+(\$ (, 1&1#*, %A9% (% & #8#19%*/%&, 9%\$1. -(, 11\$%&A#8#19%*+%*) 3(1(, 6(%
, %* , , (61#* , %G#1''% (%3+&61#6&8#) 38() (, 1&1#*, %*/%&, 9%# , *G8(-2(%
2&# , (-%''+*. 2''% (%E0CPC%
%

YC !'' (% & #8#19%\$'' &88%3+*7#-(%*+% (%*+ # (, 1&1#*, %*/%A*1''%B, \$1#1. 1#*, %&6. 819%
&, -%3&+1#6#3&1# , 2%\$1. -(, 1\$%&\$%*% (%3'' #8*\$*3''#(\$1%&. 8(\$1%&-(2. 8&1#*, \$%
&, -%3*8#6#(\$%*/% (% & #8#19%
%

ZC ? . AD(61%*% (% & #8#19L\$%*7(+&88%\$. 3(+7#\$*+9%+(\$3* , \$A#8#19%*+%3&1#(, 1%
6&+(1%&33+*3+#&1(89%#6(, \$(-%B, \$1#1. 1#*, %&6. 819%) () A(+%) & 9%3+*7#-(
\$. 6''%3&1#(, 1%\$(+7#6(\$%&1% (% & #8#19%&\$%) & 9%A(% (6(\$%&+9%*+% (&6''# , 2%
3. +3*\$(\$% (% & 1. +(%&, -%\$6*3(%*/%&61#7#1#(\$%*/%B, \$1#1. 1#*, %&6. 819%
) () A(+%)&1%) & 9%# , 7*87(% , %&, 9%G&9%3&1#(, 1%&+(%&1% (% & #8#19%\$'' &88%
A(%\$. AD(61%*% (%\$*8(%-#6+(1#* , %*/% (% & #8#19%&, -%*%\$. 6''%* , -#1#* , \$%
&\$% (% & #8#19%) & 9%-(() % (6(\$%&+9%# , %1\$%\$*8(%-#6+(1#* , % , 68. -# , 21%A. 1%
, *1%#) #1(-%*1%3+#+%3+**/%*%3+*/(\$%#* , &8%#&A#8#19%*7(+&2(1%
&33+*3+#&1(%#6(, \$. +(%*+% (+1#/#6&1#* , 1%&, -%*) 38#&, 6(%G#1''%&88% & #8#19%
+ . 8(\$1%&-(2. 8&1#*, \$1%&, -%3*8#6#(\$%B/%&6. 819%3&+1#6#3&1#* , %&1% (% & #8#19%
1'' (+%''& , %&\$%&? . 3(+7#\$+%*+% (%3. +3*\$ (%*/%''#%E0CPC#%\$%*%
&. 1''*+#[(-1%1%) . \$1% *1%A(%&\$%. A\$1#1. 1(%*+%&-(J. &1(%\$1&/# , 2%&1% (%
; & #8#19%
%

\C E88%) (-#6&8%*+% (&81''%&+(% () (+2(, 69%*+%*1'' (+G#\$ (<%'' &1%&, %
B, \$1#1. 1#*, %\$1. -(, 1%*+%&6. 819%) () A(+%+(6(#7(\$%&1% (% & #8#19%G#88%A(%&1%
1'' (%K3(, \$ (%*/% (% , -#7#-. &8%# , 7*87(-C%

%

]C -&+ , - , (, -#&)\$''+F#&+/-/4-, -''+C%
%%

. \$(%1\$A(\$1%(/+1\$%*%H((3%\$1. -(, 1\$%&, -%&6. 819%#, /+*) (-%&\$%*%%" (%
\$&) (%&, -%&, 9%&" &, 2(\$%%" (+(#, C%?3(6#/#6&8891%" (%B, \$1#1. 1#*, %G#88%#H((3%
(&6"%3&+1#6#3&1#, 2%\$1. -(, 1%&, -%&6. 819%) () A(+%&33+#\$(-%*/%#\$%*+%'+%
+(\$3*, \$A#8#1#(\$1%#, 68. -#, 2%A. 1% *1%#) #1(-%*%%" (%*88*G#, 2a%
%%

&C ! *%/*88*G%" (%&-) #, #1+&1#7(%3*8#6#(\$1%\$1&, -&+- \$%&, -%3+&61#6(\$%
*/%" (% &6#8#19%G" (, %, %" (% &6#8#19%
%

AC ! *%*(3*+1%*%" (% &6#8#19%*, %"%) (%&, -%*%/*88*G%&88%(\$1&A8#\$" (-%
+(2. 8&1#*, \$%*/%" (% &6#8#19%
%

6C ! *%#H((3%#, %*#, /#-(, 6(%&88%) (-#6&81%' (&81"1%#/, &, 6#&8%&, -%\$*6#&8%
5#, 68. -#, 2%) (, 1&8%' (&81"<%#, /+*) &1#*, %3(+1&#, #, 2%*%3&+1#6. 8&+%)
) &11(+1%68#(, 1\$%*+%3&1#(, 1\$C%
%

-C ! *%*1%3. A8#\$"%&, 9%) &1(+#&8%+ (8&1(-%*%%" (%EQCP%" &1%#-(, 1#/#(\$%
+% \$(\$%" (% &) (%/%" (%B, \$1#1. 1#*, 1%" (%=*&+-%*/%>(2(, 1\$%*/%" (%
O, #7(+19%?9\$1()) %*/%@(*+2#&1%" (% &6#8#19%*+%1\$%) () A(+1%
68#(, 1\$1%\$1. -(, 1\$1%&6. 819%*+\$1&/1%-#+(6189%*+%, -#+(61891%, 8(\$%\$%
3+#*+%G+#11(, %3(+)\$#\$#*, %%#%- (6(#7(-%+*) %" (%B, \$1#1. 1#*, 1%" (%
=*&+-%*/%>(2(, 1\$%*/%" (%O, #7(+19%?9\$1()) %*/%@(*+2#&1%&, -%" (%
; &6#8#19%O*G(7(+1%" (% &6#8#19%" (+A9%2+&, 1\$%*%%" (%B, \$1#1. 1#*, %
1" (%#2"1%*%3. A8#\$"%B, \$1#1. 1#*, %&-) #, #1+&1#7(%) &1(+#&8%\$\$. 6"%&\$%
6&1&8*2\$1%*. +\$(\$%988&A#1%EQCP%+(3*+1\$1(16C%" &1%#-(, 1#/#9%*+% \$(\$%
1" (% &) (%*/%" (% &6#8#19%*+%1\$%) () A(+1%\$1&/1%-#+(6189%*+
#, -#+(6189%
%

(C ! *%*) 389%G#1"%&88%(-(+&81%\$1&1(%&, -%*6&8%&G\$%+(2&+-#, 2%" (%
.\$(1%3*\$(\$#\$#*, 1%) &, ./&61. +((%*+%-#1+#+A. 1#*, %*/%&86*""*8%&, -%
6*, 1+*88(-%\$. A\$1&, 6(\$C%
%

/C ! *%/*88*G%T(, 1(+1%*+%) #\$(&\$(%T*, 1+*8%&, -%#/(7(, 1#*, %BTC] CTC<%
O, #7(+1\$&8%#/(6&. 1#*, \$%*+%=8*%-A*+, (%&1" *2(, \$1%TC] CTC%
@. #- (8#, (\$%*+%" . A(+6. 8*\$#\$%B, /(61#*, %T*, 1+*81%&, -%
^66. 3&1#*, &8%?&/(19%&, -%O(&81"%E-) #, #1+&1#*, %B^C?COCEC<%
>(\$3#+&1*+9%#/+*1(61#*, %?1&, -&+-C%
%

2C ! *%&+&, 2(%*+%&, -%A(%\$*8(89%+(\$3*, \$A8(%*+%#7#, 2%
&66*)) *-&1#*, \$%G"#8(%&1%" (% &6#8#19%
%

CC ! *%*, /+) %*(\$1&A8# \$" (-%\$1&, -&+- \$%&, -%3+&61#6 (\$%G" #8(%
1+&#, #, 2%&1% " (% &6#8#19C%
%

CC ! *%3+*7#- (% " (% (6(\$&+9%&, -%&33+*3+#&1(% , #/*+) \$%&, -%
\$. 338# (\$%- (J. #+ (-%G" (+ (% *1%3+*7#- (-%A9% " (% &6#8#19C%
%

DC ! *%G (&+%&% &) (%&2% " &1%8 (&+89%- (, 1#/# (\$%' #) b" (+%&\$%&%\$1. - (, 1%
*+%&6. 819%) () A(+C%
%

HC ! *%\$#2, %&%G+#11(, %&2+() (, 1%* A8#2&1#, 2% " (%\$1. - (, 1%*+%&6. 819%
) () A(+%*%* A\$(+7(%&88%+. 8(\$%&, -%3*8#6#(\$%(\$1&A8# \$" (-%A9% " (%
; &6#8#19% *%) &#, 1&#, % " (%* , /#- (, 1#&8#19%*/%3&1#(, 1%# , /+) &1#* , 1%
&, -% *%+ (/+&#, %/+*) %3. A8# \$" #, 2%&, 9%) &1(+ #&8%+ (8&1(-% *% " (%EQCP%
1" &1%#- (, 1#/# (\$%' +% \$ (\$%' /% " (% &) (% /% " (%=* &+-%' /%> (2(, 1\$1% " (%
B, \$1#1. 1#* , 1%*+% " (% &6#8#19%- #+ (6189%*+%# , -#+ (6189%*+% \$ (\$% " (%
, &) (% /% " (% &6#8#19%G#1" * . 1%#+\$1%* A1&#, #, 2%G+#11(, %&33+*7&8C%
?. AD(61% *% " (%#2" 1% *%3. A8# \$" % (1%*+1" % , % (61%* , %- %A*7(C%

%

XC ! " (%B, \$1#1. 1#* , %G#88%+ (J. #+ (%&88%\$1. - (, 1%3&+1#6#3&, 1\$%&1% " (%#) (%* /%
(, +*88) (, 1%# , % " (%EQCP%);E91 @?E9J%&, -%&\$% (6(\$&+9%&, -%&33+*3+#&1(%
-. +#, 2% " (%3 (+#*-%' /%3&+1#6#3&1#* , 1% *% , - (+2*%&% ' (&81" % (K&) #, &1#* , 1%&\$%
G#88%A (% (6(\$&+9% *%- (1(+) #, (% " &1% " (9%&+(%+((%+*) %&, 9%# , / (61#* . \$%
+% , 1&2#* . \$%-# \$ (&\$ (\$1%&, -%&+ (%A8 (% *%3 (+/*+) % " (#+ %61#7#1# (\$%# , % " (%
EQCP%3+*2+&) % , %*+ (-% *% (, \$. + (% " &1%\$1. - (, 1%*- *% *1%3* \$ (%&#-#+ (61%
1" + (&1% *% " (%' (&81" %*+%& / (19%* /%*1" (+ \$1%G" #6" %) &9%# , 68. - (% =1%V] %
1 (\$1%*+% " (\$1%KU+&91%' (3&1#1#\$U=%*+ (%&, 1#A* -9% (\$11%&, -%>. A(88&1%
) (&\$8(\$%&, -%) .) 3\$% (\$1%\$*+-%*6.) (, 1&1#* , %* /%) . , # [&1#* , %E1% " (%
31# , %* /% " (% &6#8#19%\$. 6" %' (&81" % (K&) #, &1#* , \$%) &9%A (%3 (+/*+) (-%A9%
1" (% &6#8#19%&1% " (%\$*8(%K3(, \$ (%* /% " (%\$1. - (, 1%3&+1#6#3&, 1\$C%E, 9%
) (-#6&8%*+% ' (&81" %&+ (%5() (+2(, 69%*+%*1" (+G#\$(<% " &1%) &9%A (% (6(#7(-%
A9%&, %B, \$1#1. 1#* , %\$1. - (, 1%*+%&6. 819%) () A(+%&1% " (% &6#8#19%# , % " (%
6* . +\$ (%* /% " (%EQCP%\$ " &88%A (%&1% " (%\$*8(%K3(, \$ (%* /% " (%# , -#7#- . 88%
+(6#3#(, 1%* /%\$. 6" %&+ (\$%3+*7#- (-% " &1% *1" #, 2% ' (+ (#, %\$ " &88%+ (J. #+ (% " (%
; &6#8#19% *%3+*7#- (%&, 9%\$. 6" %&+ (C%E, 9%\$1. - (, 1%*+%&6. 819%3&+1#6#3&, 1%
G" *%* (\$% *1%) ((1% " (%' (&81" %+ #1(+ #&%(\$1&A8# \$" (-%A9% " (% &6#8#19%G#88%
, *1%A (%\$ \$#2, (-% *% " (% &6#8#19%*+%&88*G (-% *%* , 1# , . (% *%3&+1#6#3&1(%# , %
1" (%EQCP%&1% " (% &6#8#19% " (% &6#8#19%* &\$% " (%#2" 11%&1%&, 9%#) (1% *%
+(J. (\$1% ' (&81" %\$1&1. \$%- (3*+1\$%* , %\$1. - (, 1%&, -%&6. 819%3&+1#6#3&, 1\$1% *%
1" (%K1(, 1%&88*G (-%A9%&338#6&A8(%&G% *+ (*7(+1% /% " (%\$1. - (, 1%&, -b*+ %
/ &6. 819%) () A(+% ' &\$%&, % (K3* \$. + (% *%A8* * -%*+%A* -9%\$. A\$1&, 6 (\$1% /% " (+
\$%&, % , D. +9% *% " (%\$1. - (, 1%&, -b*+ %&6. 819%) () A(+%*+% /% " (+ (%\$%&, %
, / (61#* . \$%-# \$ (&\$ (%* . 1A+ (&H1% " (%B, \$1#1. 1#* , %&2+ ((\$1% *% " (%K1(, 1%

&88*G(-%A9%&G1%*%\$(, -%1"(\$1. -(, 1L\$%&, -b*+%&6. 819%) () A(+L\$%' (&81''%
+(6*+-\$%G#1''#, %G*%M<%A. \$#, (\$%-&9\$%*/%1" (%-(6(#31%*/%&%G+#11(, %
+(J. (\$1%A9%1" (% &6#8#19%*+%\$. 6''% (&81''%-(6*+-\$%C%
%%

cC ! "(%B, \$1#1. 1#*, %\$''&88%'&7(%1" (%. 88%+(\$3*, \$A#8#19%*+%1" (%* , -. 61%*/%&, 9%
\$1. -(, 1%*+%&6. 819%-#6#38#, &+9%3+*6((-#, 2\$%&, -%\$''&88%6* , -. 61%1" (%
\$&) (%#, %&66*+&-, 6(%G#1''%&88%&338#6&A8(%\$1&1. 1(\$1%+. 8(\$1%+(2. 8&1#*, \$%&, -%
6&\$(%&&G%
%%

WC ! "(%B, \$1#1. 1#*, %G#88%&\$2, %&6. 819b\$1&//%+(3+(\$ (, 1&1#7(5\$<%&\$%#&#*\$, 5\$<%
A(1G((, %1" (% &6#8#19%&, -%1" (%B, \$1#1. 1#*, %1" (%B, \$1#1. 1#*, %&6. 819b\$1&//%
+(3+(\$ (, 1&1#7(5\$<%G#88%A(%-(\$2, &1(-#%, %1" (%E2+(((, 1C%

%

PC ! (, (%4)\$"+F#&+/-4-, -"+6%
%%

FC ! "(%3&+1#(\$G#88%G*+H%1*2(1" (+%1*%) &#, 1&#, %&, % (, 7#+*,) (, 1%*/%J. &8#19%
8(&+, #, 2%(K3(+#, 6(\$%*+%1" (%B, \$1#1. 1#*, L\$%\$1. -(, 15\$<1%G''#8(%&1%1" (\$&) (%
1#) (% (, "&, 6#, 2%1" (%+(\$*. +6(\$%&7&A8(%1*%1" (% &6#8#19%*+%1" (%
3+*7#-#, 2%*/%&+(%1*%#1\$%68#(, 1\$%&, -%3&1#(, 1\$C%E1%1" (%-(J. (\$1%*/%1" (+%
3&+19%&%) ((1#, 2%*+%* , /(+, 6(%G#88%A(%' (8-%A(1G((, %B, \$1#1. 1#*, %&, -%
; &6#8#19%+(3+(\$ (, 1&1#7(\$%1*%(\$*87(%&, 9%3+*A8() \$%*+%- (7(8*3%&, 9%
#) 3+*7() (, 1\$%#, %1" (%*3(+&1#*, %*/%1" (%EQCP%
%%

MC ! "#\$%G*+H#, 2%+(8&1#*, \$''#3%&, -%&/#8#&1#*, %\$''&88%A(%+(7#(G(-%&, , . &889%
A9%1" (%3&+1#(\$C%1"#\$% () *+&, -.) %*/%O, -(+\$1&, -#, 2%) &9%A(%&) (, -(-
&1%&, 9%#) (%A9%) . 1. &8%G+#11(, %&2+(((, 1%*/%1" (%3&+1#(\$C%1%) &9%&8\$*%A(%
6&, 6(8(-%&1%&, 9%#) (%A9%#1" (+%3&+19% 3*, %*1%8(\$%1"&, % #, (19%W<-%
-&9\$%G+#11(, %*1#6(%1*%1" (%*1" (+%3&+19%A. 1%&, 9%\$1. -(, 1\$%. ++, 189%#, %
&, %EQCP%) &9%*) 38(1(%1" (%EQCP%
%%

RC ! "(%B, \$1#1. 1#*, %&, -%1" (% &6#8#19%&6H, *G8(-2(%&, -%&2+((%1"&1% (#1" (+%
3&+19%\$''&88%A(%+(\$3*, \$A8(%*+%&, 9%*%\$1%#, D. +9%*+%*1" (+%-&) &2(%1*%1" (%
3(+*\$, %*+%3+*3(+19%*/%&, 9%\$1. -(, 1%*+%&6. 819%) () A(+%3&+1#6#3&1#, 2%#, %
1" (%EQCP% , 8(\$%\$\$. 6''%*%\$1%#, D. +9%*+%-&) &2(%+(\$. 81\$%/*) %1" (%
, (2#2(, 6(%*+%G#8/. 8%6* , -. 61%*/%1" &1%3&+19%#1\$%&2(, 1\$1%*//#6(+*\$*+%
() 38*9((%C%
%%

YC ! "#\$%+(8&1#*, \$''#3%\$%#, 1(, -(-%*8(89%*+%1" (%) . 1. &8%A(, (/#1%*/%1" (%
3&+1#(\$%'(+1*1%&, -%1" (+(%\$%*%#, 1(, 1#*, 1%(K3+(\$%\$%*+%*1" (+G#\$(1%1%#
6+(&1%&, 9%#2''1\$%*+%#, 1(+(\$1\$%/*+%&, 9%3&+19%*+%3(+*\$, %*1" (+%1"&, %

