



"
!"#\$%&'()*+,-./0123456778"

!"

!"#\$%&'()*+,-./012340

"
!"#"

"=

"
!"#\$%

M'

9\$%H165910\$% / &1,60&'H"&% ("9\$ / T\$%, %1H*"a%"\$%, "9&H,3"H1, , '+, & / H"S&+609&1, ('0%\&T&%
K,6,"9\$%H0(,6, ("9\$%H165910\$% / &1,60&'H", A,% "12\$5L2" / \$6, (" \$ / ,H109"9\$ / T\$%, %1H"
K,6,"&((, ("&1,63"6,H5'10%L"0%"12, "9\$%16&91\$6"A0\$'&10%L"12, "V@@*"I""""I2-2)67./ .8.)
9.#8\$/2)9.2):2); #4\$'5) I\$+\$'83" !=" Q*M(" !ED=" YQ, (* 406*" !PPMZ" Y,&92" H1, , '+, & / "
+6\$5L21"1\$"9\$%H165910\$%"H01,"S\$6"0%9\$6T\$6&10\$%"0%1\$"+50'(0%L"2&("1\$"H&10HS-"(\$ / ,H109"
9\$%1,%1"6,G506, / ,%1H"\$S"V@@",A,% "12\$5L2"+,& / H"K,6, "'&1,6"9\$ / +0%, ("K012"\$12,6"
/ &1,60&'HZ*" 10\$'&10\$%H" \$S"12, "V@@*"9&% "2&A, "9\$%H,G5,%9,H3"5T"1\$" &% ("0%9'5(0%L"
(,+&6 / ,%1*"I"""">!" W* . *4*" k" hMEM" YA0\$'&10\$%H" / &- "6,H5'1"0%"9\$%16&91\$6" &% ("&%-"
&SS0'0&1, ("H5+9\$%16&91\$63" / &1,60&' / &%3" \$6" H5TT'0,6" (,+&6 / ,%1" S\$6" 126, , - ,&6HZ["
<0+="/)9.#8\$2)9.2):2); #4\$'5) I\$+\$'83" ?E" Q*" .5TT*"=("h?" Y] *" F&HH*" !PPPZ"
Y(+&6 / ,%1" T6\$9, , (0%LH"\$S6"V@@*"A0\$'&10\$%Z*"

"

I A,6"12, "- ,&6H3"12, "V@@*"2&H"+, ,%&'1,6, ("&%(" ,gT&%(" (+-"4\$%L6,HH"&%(" 12, " Cg,9510A, " V6&%92" 0%" A&60\$5H" K&-H*" a%" =EEP3" 12, " @ / ,609&% #,9\$A,6-" 7"
#,0%A,H1 / ,%1"@91"Y@##@Z3"<5+'09"; &K"! !N?"Y=EEP3"H,1"\$S612"% ,K"&%(" (OSS,6,%1"
V@@*"T6\$A0H0\$%H"&SS,910%L"9\$%H165910\$%"T6\$d,91H"\$S5(("+-"12, "@##@"+, -\$%(" (06,91"
S, (,6&' "9\$%16&91H*" F \$6, "6,9,%1'-3"12, "V@@*"T,69,%1&L, "\$S"6,G506, ("9\$ / T\$%, %1H"\$S6"
(\$ / ,H109"9\$%H165910\$% / &1,60&'2&H"0%96,&H, ("S6\$ / "?E j "0%"] ,9, / +,6"=E=E"1\$"cE j "
,SS,910A, " I 91\$+,6" =E==3" K012" &% "5T9\$ / 0%L"0%96,&H, "1\$" D? j " T,69,%1" S\$6" 01, / H"
(,0A,6, ("H1&610%L"0%9&', % (&6"- ,&6"=E=P*"I""""Q@#"k"=?*EEM*""

"

(E B2@k; 3\$(8'''

"

V5-"@ / ,609&"6,G506, / ,%1H"H1&61, ("0%"12, ".56S&9, "J6&%HT\$61&10\$%"@HH0H1&%9, "
@91" \$S" !Ph=" &%(" K,6, "0%1,% (, ("1\$" L0A, "T6,\$,6,%9, "S\$6" 12, "5H, "\$S" (\$ / ,H109&'-"
T6\$(59, (" / &1,60&'H"\$% "16&%HT\$61&10\$%" T6\$d,91H"\$S5(("+-"12, "S, (,6&' "L\$A,6% / ,%1"
V5-" @ / ,609&"6,G506, / ,%1H" &TT'-" 1\$" 16&%HT\$61&10\$%" T6\$d,91H" 6,9,0A0%L" S, (,6&' "
S5%(0%L"Y0%9'5(0%L"Q8 b @L6&%1H"&%("S, (,6&'-"S5(("H1&1, "16&%HT\$61&10\$%" T6\$d,91HZ"
&H"K, ""&H"\$12,6"T6\$d,91H"+-"12, "C%A06\$% / ,%1" "<6\$1,910\$%"@L,%9-3"Q, (,6&' "J6&%H01"
@ / 0%0H16&10\$%3"Q, (,6&' "#&0"@" / 0%0H16&10\$%3"Q, (,6&' "@A0&10\$%"@ / 0%0H16&10\$%"&%(" "
B&10\$%"&" 80L2K&-" J6&SS09" .&S,1-" @ / 0%0H16&10\$%"V5-" @ / ,609&"0H"\$1" '0 / 01, ("1\$"
T6\$956, / ,%1H"+-"&"S, (,6&' "&L,%9-3"&%("S"K" (\$K%"1\$"6,90T0,%1H"\$S"L6&%1H"&%("12,6"
S, (,6&' "S5%(0%L" S6\$ / " 12,H, " &L,%90,H*" V5-" @ / ,609&" &TT'0,H" &S1,6" &" 5") 74##4748"
/ \$%,1&6-" 126,H2\$' ("1\$" &' / \$H1" &' " T6\$d,91H*" QS6" ,g& / T',3" 12, " Q, (,6&' " 80L2K&-"
@ / 0%0H16&10\$%"H"YQ8 b @Z" / 0%0 / 5 / "126,H2\$' ("S\$6"V5-"@ / ,609&"1\$" &TT'-"0H"12&1"12, "
1\$1&"& / \$5%1"\$S"06\$%"&%("H1, , "T6\$(591H"(,0A,6, ("1\$"12, "T6\$d,91"+, / \$6, "12&% "f=?EE"
\$6" E*! j " \$S" 12, "1\$1&" 9\$%16&91" & / \$5%13" K2092,A,6" 0H" L6,&1,6*" I"""" =M" 4Q#" k"
cM?*>!EY+ZY>Z*""

"

V5-"@ / ,609&"6,G506,H"12&1"12, "_H1, , '3"06\$%3"&%(" / &%5S&9156, ("L\$\$ (H"5H, ("0%"
12, "T6\$d,91"&6, "T6\$(59, ("0%"12, "W%01, (" .1&1,H"e" I"""">P"W* . *4*"k"?M=M*" J20H"0%9'5(,H"
/ &%5S&91560%L" T6\$9,HH,H3"H592"&H" / , '10%L3"9&H10%L3"\$S6 / 0%L3"S0%0H20%L3"&%("9\$&10%L*"
@ / &%5S&9156, ("L\$\$ ("0H"9\$%H0(,6, ("T6\$(59, ("0%"12, "W%01, (" .1&1,H"OSU"Y"Z" &' "\$S"12, "

?"

"

!"#\$%&'()*+,-./0%123456778"

!'#\$%&'()*+,-./01/2k3/0k#. /%+)(4+1./k51%6k
73/32*8*/k#. /9*)*/4k

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

c"

?52" &1" DEP! !Y?Z" Y, / T2&H0H" & ((, (Z*" J2, "0%1,%1" 12,% "0H" 12&1" V@V@" K0'" "%\$1" "\$%' -
,gT&%" (" 12," 9\$A,6&L," "\$S" (\$ / ,H109" T6,S,6,%9,H" 1\$" / \$6," T\$1,%10&" 6,90T0,%1H"
Y,g1,% (0%L" 1\$" L6&%1"&%" ("S5% (0%L"6,90T0,%1H"H592"&H" H1&1,H"&%" (" '\$9&'010,HZ"&%" (" / \$6,"
T6\$d,91H"Y&"'"0%S6&H1659156,Z"+51"&'H\$"1\$"9\$A,6" / \$6,"9\$%H165910\$%" / &1,60&'H*" "

J2," V@V@" T6\$A0(,H" T6\$20+0IH" S, (,6&" S5% (0%L" "\$%" 0%S6&H1659156," T6\$d,91H"
5%' ,HH"&"'" / &1,60&"5H, ("0H" (\$ / ,H109&' - "T6\$(59, (U" "

nBo\$%, "\$S"12," S5% (H" / & (,"&A&0'&+' ,"\$S6"&"Q, (,6&"S0%&%90&"&HH0H1&%9,"
T6\$L6& / "\$S6"0%S6&H1659156, p / &- "+" ,"\$+"0L&1, ("S\$6"&"T6\$d,91"5%' ,HH"
&"'" "\$S" 12," 06\$%3" H1, , '3" / &%5S&9156, (" T6\$(59IH3" &%" (" 9\$%H165910\$%"
/ &1,60&'H"5H, ("0%"12,"T6\$d,91"&6,"T6\$(59, ("0%"12,"W%01, (" . 1&1,H*" "

<5+*" ;*" B\$*" !!DN?h3" kDEP!>*" B\$1&+' -3" 12," V@V@" &TT'0,H" 1\$" +00" S, (,6&" S0%&%90&"
&HH0H1&%9,"S\$6"0%S6&H1659156,3%"\$1"d5H1"aa\@"S5% (0%L3"5%" ,HH"12,"T6\$d,91"\$6"12," / &1,60&"
0H"9\$A,6, ("+-"&"K&0A,6*" J20H"0%9'5(,H" (06,91" T5692&H,H"+- "12," S, (,6&" L\$A,6% / ,%1"
+51"&'H\$"&"'"S\$6 / H"\$S"\$S, (,6&"S0%&%90&"&HH0H1&%9, *" @ ((010\$%&' -3" V@V@"`H" (,S0%010\$%"
\$S"4#C/+8\$/%&\$%/"'0H"+6\$& ("&% (" ,%9\$ / T&HH,H"&' / \$H1"&% - "+50'1"H1659156,"\$6'S&90'01-U" "

aBQ#@ . J #W4 JW#C* q J2, "1,6 / " rr0%S6&H1659156, ``" 0%9'5(,H3" &1" &"
/ 0%0 / 5 / 3"12,"H1659156,H3"S&90'010,H3"&%" (" ,G50T / ,%1"S\$63"0%"12,"W%01, ("
. 1&1,H q "

Y@Z"6\$&(H3"20L2K&-H3"&%" (" +60(L, H["
YVZ" T5+'09"16&%HTS\$61&10\$%["
Y4Z" (& / H3" T\$61H3"2&6+\$6H3"&%" (" \$12,6" / &6010 / , "S&90'010, H["
Y] Z"0%1, 6901 - "T&HH, %L, 6"&%" ("S6,0L21"6&0'6\$&(H["
YCZ" S6,0L21"&%" ("0%1, 6 / \$ (&"S&90'010, H["
YQZ"&06T\$61H["
Y) Z"K&1,6"H-H1, / H3"0%9'5 (0%L" (60% :0%L"K&1,6"&%" ("K&H1, K&1,6"
H-H1, / H["
Y8Z" , ' ,91609&"16&%H / 0HH0\$%"S&90'010,H"&%" ("H-H1, / H["
YaZ""510'010, H["
Y\Z""+6\$&(+&%" ("0%S6&H1659156, ["&%" ("
YXZ"+50' (0%LH"&%" ("6, &"T6\$T, 61 - *"" "

<5+*" ;*" B\$*" m / TT2!Tf[(/) 0.2(&) 0.2(1) 0.2(,) 9(T!01111 j E+*") - 81.9(;) 0.2(917 ,) 9(3V) 0. T5 7 "50

D"

Y&A&0'&+', " &1" 211THURRKKK*K201,2\$5H,*L\$ARKTN9\$%1,%1R5T'\$&(HR=E==RE>RFN==N
!!*T(SZ*"al, / H" 9\$%H0H10%L" \$\$" 1K\$" \$6" / \$6," \$\$" 12," '0H1, (" / &1,60&'H" 12&1" 2&A," +, ," %"
9\$ / +0%, ("1\$L, 12, 6"+- " / &%5S&91560%L"T6\$9,HH,H3"\$6"K2,"%&1"' ,&H1"\$%, "\$S"12,"'0H1, (" /
&1,60&'H"0H"9\$ / +0%, ("K012"&% "5% '0H1, (" / &1,60&'3"H592"&% "01, / "_H2\$5' (" +, "16, &1, ("&H"
/ &%5S&9156, ("T6\$(591H3"6&12, 6"12&% "&H"9\$%H165910\$%" / &1,60&'H*e" I "")a / T', / ,%1&10\$%"
) 50(&%9, " &1" c*"

h"

"

!"#\$%&'()*+%, -..(/%0%123456%778"

!''#\$%&'()*+,-./01/2&3/0&#. /%+)(4+1. /&51%6&
73/32*8*/&#./9*)*/4&

W% (,6"12,"a#@3"Q8 b @ "K0'" (0H160+51,"f="+0''0\$%"\$A,6"12,"% ,g1"1,% "- ,&6H"1\$"
6,0 / +56H,"0%96, / ,%1&'0%96,&H, ("9\$H1H"\$6"T6\$A0(,"&"= j "0%9,%10A,"1\$"6,90T0,%1H"\$S\$6"
T6\$d,91H" 5H0%L" 9\$%H165910\$%" / &1,60&'H" K012" H5+H1&%10&'-' '\$K,6" , / +\$(0, ("
L6, ,%2\$5H,"L&H"Y) 8)Z", / 0HH0\$%H"Y_ '\$KN9&6+\$%e"9\$%H165910\$%" / &1,60&'HZ*" I """"

!E"

"
!"#\$%&'()*+,-...(/%0%123456%778"

!''#\$%&'()*+,-./01/2%3/0%#./%+)(4+1./%51%6%
73/32*8*/%#./9%)*4%#

J

!!"

"
!"#\$%&'()*+,-./0123456778"

!"#\$%&'()*+,-./0123456789(4+1./51%6
73/32*8*/9#./9*)*/4*

. ,9\$%(3" 12, " aa\@" & ((H" % ,K" T6\$L6& / H" 1\$" ,g0H10%L"] V#@H" \$6" 5% (,6" 12, " 5 / +6, "'&"\$S"&%" ,g0H10%L"] V#@3"&'H\$" / & : 0%L"12, "%5 / +, 6"\$S"T6\$L6& / H3"&%" ("T6\$d, 9IH3" L6, &1, 6*"JK\$H592"T6\$L6& / H"&6, "12, "%, K"V60(L, "a%A, H1 / , %1"T6\$L6& / "Yf !=" +0' '0\$%Z" &%" ("12, "%, K"@06T\$61" J , 6 / 0%&'a / T6\$A, / , %1"T6\$L6& / "Yf ?" +0' '0\$%Z*"V\$12"T6\$L6& / H" &6, "+, 0%L"T'&9, ("5% (,6" 12, " 5 / +6, "'&"\$S"&%" ,g0H10%L"] V#@" &%" ("12, 6, S\$6, "T6\$d, 9IH" S5% (, ("+-"12, H, "T6\$L6& / H"K0'"&'H\$"6, G506, "9\$%16&91\$6H"1\$"9\$ / T' -"K012"] V@*""

J 206 (3" 12, " aa\@" 0%9'5 (, H"

!M"

"

! "#\$%&'()*+%, -..(/%0%123456%778"

! "\$%&'()*+, &- ./01/2&3/0&#. /%+)(4+1. /&51%6& 73/32*8*/&#. /9*)*/4&

&(/ 0%0H1,60%L"12,H,"T6\$L6& / H" / &-"9\$%H0(,6"12,"T&- / ,%1"\$S"T6,A&0'0%L"K&L,H"&H"&"
T\$H010A,"S&91\$6"0%"S5% ("&' '\$9&10\$%"S\$6"+6\$&(+&% ("&HH0H1&%9,"T6\$L6& / H*""""

763 36.<>\$.4\$&0\$863 3\$. /')(6.4& F \$6,"T6\$d,91H"K0'"2&A,"] V@"6,G506, / ,%1H"
%\$K"12&1"12,"aa\@"2&H"T&HH, (* 4 \$%16&91\$6H"\$6"H5+9\$%16&91\$6H"K2\$"T'&% "1\$"K\$6:"\$%"
T6\$d,91H"\$S% (, (" ,A,% "T&610&' "-+-"12,"aa\@" / 5H1"" ,&6% "&+\$51"12,"6,G506, / ,%1H"\$S"12,"
] V@"&% ("H, , : "1\$", %H56, "9\$ / T'0&%9, "K2, 12,6"6,G506, ("+-"12, "\$9&'3"H1&1,3"\$6"\$S, (,6&"
L\$A,6% / ,%1*" 4 \$%16&91\$6H"%\$1"\$S& / 0'0&6"K012"9,610S0, ("T&-6\$' 'H"&% ("12,"9'&HH0S09&10\$%"
6,G506, / ,%1H" "\$S" 12,"] V@" T6\$A0H0\$%H"

!>"

"
!"#\$%&'()*+%, -..(/%0%123456%778"

! "\$%&'()*+, &- . /01/2&3/0&# . /%+)(4+1. /&51%6&
73/32*8*/&# . /9*)*/4&

"
!"#\$%&'()*+,-./0123456778"

!?"

!"#

\$6"H5+9\$%16&91\$6"K2\$", / T'\$-H"\$S\$56"\$6" / \$6, "0%(0A0(5&'H"&1"12, "T6\$d, 91" / 5H1", / T'\$-
\$%, " \$6" / \$6, " G5&'0S0, (" &TT6, %109, H*" I"" 452) a%&(A, 61, %1" %\$%9\$ / T'0&%9, " K012"
&TT6, %109, H20T"6, G506, / , %1H" / &- "+, ", g95H, ("0S"&'T, %&'1- "\$S"f?E" T, 6"2\$56"\$S" / 0HH0%L"
&TT6, %109, H20T"2\$56H"0H" T&0 ("@" _) \$\$ ("Q&012" CSS\$61e", g9, T10\$%"&'H\$", g0H1H"K2, 6, "&
9\$%16&91\$6" 6, G5, H1, (" G5&'0S0, (" &TT6, %109, H" S6\$ / " &" 6, L0H1, 6, (" &TT6, %109, H20T"
T6\$L6& / "&%"("12, "6, G5, H1"K&H" (, %0, ("

!c"

"

!"#\$%&'()*+%, -..(/%0%123456%778"

! "\$%&'()*+, &- . /01/2&3/0&# . /%+)(4+1. /&51%6&
73/32*8*/&# . /9*)*/4&

"

763 36. >\$.4\$0\$863 3\$. /')(6.4+k I K%,6H"12&1"T'&%"1\$"\$+1&0%"1&g"96, (01H"\$SS,6, (" 5% (,6"12, "a#@ "K0'"H, , : "9\$%16&91\$6H"K012"12, "&+0'01- "1\$"9\$ / T' - "K012"T6, A&0'0%L"K&L, " 6,G506, / ,%1H3" &TT6, %109, H20T" 6, G506, / , %1H3" &%" 6, T\$610%L" 6, G506, / , %1H" &H" 12, -" (, A, '\$T*"4\$%16&91\$6H"% , , ("1\$"+, "T6, T&6, ("1\$"S5'S0'"12, H, "6, G506, / , %1H*"4\$%16&91\$6H" K0'"

!D"

"

!"#\$%&'()*+%, -..(/%0%1234546%778"

! "\$%&'()*+, &- . /01/2&3/0&# . /%+)(4+l . /&51%6& 73/32*8*/&# . /9*)*/4&