



!"#\$%&'#() +,-.#.) , " / -0'' 1.2%34-#''5

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!"# %&'()\*+,-.#./0 1#2/'3. / ("3.2#4 50""#6.-)/ \* ) #,/7.# ""3\*38833//("#478#/\$3("#-# \*"#&88)9',2:\$;#/#, #4\$,\$;.')\*0\$).4#.<

=> ?;,:.'3\*# @;3(#&). @;#('&'(A47(3\*),38B##4/

! #,/7.',2\$3;,:).:'3\*#\$.)C /'D#: #E7';C#, \* F835G/\*74')G#(C#.#38/\*#("),8)20: 3,4\$ )\*"#. ;#432)20I/;#('&'(\$(),/4#3\*)/,

! #,/7.',2\$##4#4\$3(())CC)43\*)/,/ &)./\*74#,\*/ 9\*\*\$4)(7C#, #4\$4'/35'8'\*#/#

! #,/7.',2\$3;,:).:'3\*#\$&',38 #J3C /("#478',2

K> %;\*'C38/\*74#,\*3((##// \*) ,##4#4()7./# F9"(" ,##4/ \*) 3(())/\* &). \*3-#85\*9##, \*"#B).\*" 3,4\$@)7\*\*GL#4'(38#, #.(3C;7/#/H

N> %;\*'C387/#)&3(34#C'(&3('8'\*#B,4 #E7';C#, \*

O> P3(78\*0\$/"#478',2\$;.#&#.#, (#/

!"/ ;)8'(0 /' ""#( )4&'(3\*), )&"#%&'()\*+,-.#./0 1#2/'3.Q/2)-#.,3,(# .#;/),/'5'8\*0 &). \*"# 3(""-#C#, \*) &"#/#\$;.')\*#/# -'3\$\*"#\$/("#478#)\$83//# 3,4 /\$#&&#(\*-CC#4'3\*#80\$7;,\$34;)\*,\$50 \*"#R6??G6.-)/">

."# /0123

!"/ ;)8'(0 2)-#./ ""#/"#478',2 )&388,4#.2.3473\*#B,4 ;)\* I53((3837.#3\*#\$(83//#/#478#4\$),\$\*\*#\$ @\*\$)7/ (3C;7/ F#J(874',2\$),80\$@())\*\*\$T5880#,\$U<VV3C 3,4\$=V<VM,,030 IP.'430:&).388388 3,4\$@;.',2\$\*#C/>

4"# 516&7(89-;,\$<&\* ==>),<-)& )? =,<\*7@-,,\$/:<,7

!"# 6.-)/\*: 9\*\* ""#3//'\*3,(# )&"#4#3,/G4'.#(\*)./3,4 +,-.#./0 1#2/'3.:)-#./##/ ""#7/# )&388 3(34#C'(\$;/3(#:3,4\$&).C3880\$4#/'2,3\*#/'(783./;3(#/ 3/ (83//.)C/: 835).3\*).#/:&&(#/: (),&#.#,(#GC##\*',2\$.)C/: #\*(>?88(83//.)C 3,4\$835).3\*).0\$/;3(#\$/\$4#/'2,3\*#4\$50\$\*\*"#6.-)/\*\$3,\$5# /("#478#4\$50\$\*\*"#%&'(#\$)&\$\*\*"#1#2/'3.\$&).\$3(34#C'(\$7/#\$50\$3,0\$3(34#C'(\$7,'\*:\$38\*\*")72"\$;.#&#.#,(#/\$&). /("#478',2\$;.')\*0\$&).\$(#.\*3',\$/;3(#/\$3,\$5#\$4#/'2,3\*#4\$50\$\*\*"#6.-)/\*\$7;,\$)#E7#/'&.)C\$\*\*"#6;#(\* 4#3,G4'.#(\*)).>"#% '\$()\*#+\$,#)-./,0# 1+\$\$#0,2.3',4\$\*\$,3\$\*\*"+56 )\*\$ !"# 3',507\$\*\$7&3-)'55\*\*"+58 ,7&#9\$\*\$4\*\*\$&.0# ;&539\$7/-)\$7&;<&#9\$&=,0>\$\*50#<&?#205#\*4@)\$&#9#)3\$&4"±\$#\$0,25,7& "#9\$\*\*2/-)\*.7&9"3&7\$()\*#+\$,#)/5\$5A

?883(34#C'(/;3(# /' (),'4#.#4 +,-.#./0 /;3(#: 388)(3\*#&).3;,:).:'3\*# 3(34#C'(7/#3(())4',2 \*) \*"#\$;.')\*#/#;.#&#.#, (#/.\$3,4\$#J(#,\*),/\$#/'358/'#4\$50\$\*\*"#6.-)/>\$\$B)\$3(34#C'(\$;/3(#:\$,(874',2\$\*\*3\*\$

&7,4#4\$50\$3,4G).\$,3C#4\$&).\$3\$83\*#4\$4),.:\$/W)9,#4X\$50\$3,0\$,4-'4738\$3(34#C'(\$7,'\*Y\$,)  
3(34#C'(\$/;3(#\$C30\$5#W(),\*.88#4\$50\$4\$78#4\$50\$3,0\$,4-'4738\$3(34#C'(\$7,'\*9\*\*\*)7\* 9.\*\*#,\$  
(,/#,\* &)./7("\$#J(#;\*),\$50\$\*\*#\$6.)-/\*>?(7..#,\* 8/\*)&/7("\$#J(#;\*),/\$9'88\$5#\$C3',\*3',#4\$50\$\*\*#  
6.)-/\* 3,4\$\*\*#\$+,-#./\*0\$1#2/\* .3.>

A"# B&-C7(8-'D0(7\*-! E)+( 2)>-,D <&\*0)&<,' E)+( F+-\*7>-&78

!) )C;80 9\*\* .#E7'.#C#,\*/) &5)\*\* \*"# +>@Z#;3.\*C#,\* )&A47(3\*), 3,4 )7. ',/\*7\*),38 3((.#4').:  
\*\*#T'2"#.\$S#3.,'2 M)CC'//),.\$@S+ 34);\*4 \*"# &88)9',2WM.#4\*\$T)7.\$6)8'(0X\*\$)(C;8#C#,\*/\$3,4  
'&).C/\$\*\*/\$W83//@\$("#478',2\$6)8(0X<

[, &788\$3(().43,(9\*\* &#4#.38\$.#2783\*),/\$3/\$4#&,\$\$.#NOMP1\VV>K:\$@3',\*\$S)7/\$  
+,-#./\*0 4#&,'#3/#C#/\*#.)7. F\*0;(3880#&#..#4) 3/ 3W(.#4')7.XH3/ \*\*#7,'\* )&  
3(34#C'(\$(.#4'\*393.4#4\$&):"#3\*\*3',C#,\* )&' ,\*#4#4\$8#3.,'2\$)7\*(C#/-#.'&'#450  
#-'4#,(#)\$&/'74#,\* 3("##-#C#,\*: 3,4\$3/ .#;.#/#,\*#4\$),)\$&&'(38,-#./\*0\$3(34#C'(\$  
.#().4/\$50\$\*\*#\$/7((#//&78\$(C;8#\*),,\$)&\$3,\$3C)7,\*\$)&\$/\*74#,\*\$9).]3/\$4#\*3'8#4\$5#8)9>\$\$  
!"# %&'(#"") '+,"# +-#.%/ 3#4#+&.(("0+.&-5.#2)" +.67

%,#/#C#/\*#.)7. )&(.#4\*' / 393.4#4&). \*\*#3\*\*3',C#,\* )&' ,\*#4#4 8#3.,'2 )7\*(C#/  
.#/78',2\$&.)C"/9<\$

=> @\*74#,#,232#C#,\*,\$3\$.#3/),358#\$#E7'-38#&,\$#)\$7. )&(83//.)C ). 4.#(\*  
&3(78\*Q\*.7(\*),

G'# /'<&\*(<\*\$0><88())@ H77'-&I\$J-@78K/>)'8 <&\*\$0D,>78

O&@ "1#.(

?88\$()7./#C7/\*5#2',3\*),# )&"#/\*3.\*\$'C#/\$'4#,\*'&'#4\$,\$\*"#\$W@\*3,43.4\$@("#478#\$!C#/G@8)\*X\$5#8)9>

J9#.. P@#.+-/@ "1#.(

?88".##!(.#4'\* (7./#/ .#E7'!,2\$),80\$(83//.)C/ F,), 1835).3\*).0:\$,)/'74')H\$C7/\*\$5#\$/("#478#4\$3\*\$),# )&"#\$/\*3,43.4\$/"#478#\$\*C#/G/8)##\$("3.5#8)9H,\$#"#\$ 3\$/\*3,43.4\$L),430`#4,#/430 IP.'430: !7#/430I!7./430: L),430 l`#4,#/430: ). ),# ,2"\* ;#.



!"# %&&'(#& \*\*#+,-#./'0 1#2/\*3. / ("3.2#4 9"\* #,/7.',2 3(34#C'(7,\* 34"#.#,(# \*) \*\*#/#  
4/\*.'57\*),\$ #E7'.#C#,\*/\$3,49'88.#-'#9\$3(34#C'(7,\* /("#478#/3((),.4',280> +,\* / ,)\* 34"#.'2 \*)  
\*\*#/#\$.#E7'.#C#,\*/\$9'88\$5#\$.#E7'.#4\$)\$3C#,#4\$\*#'.#/( "#478#/\$;.'.)\$\*\$\*#'.#;758'(3\*),\$\*\$\*#\$.+,-#./'0  
(CC7,\*0>

R'# 0)+(87 0<:<,-'78

1#2783.80;43\*#4\$47(3\*),3880\$3;,:). '3\*#( )7./#\$ (3;3('\*/# &3('8"\*3\*\$),\*C38#3.,2\$#,-.),C#,\* /:  
'\$c3,#.\$50\$\*\*#\$.+,-#./'0\$1#2/\*3.\$3(().4',2\$\*)\$\*\*#&88)9',2\$.78#/<

E1&.`?7 M)7./# (3;/ /")784 5#/#\* 3\*\*"# C)/\* .#(#,\* .)88',2:\*".##\*#.C\$3-#.32#\$)&\$#3("\$()7./#Q/\$(#,/7/\$  
#,.)88C#,\*.:)7,4#4\$\*\$\*\*#,\$#3.##-#,\$7C5#.>

L"\* \$M)+(-\$04N/\*5\$ O&9)73\$,5/5\$,\*\*--+\$,#5'4 PP&G&7 PQ, L)-- PRPP&L)-- PRPS&7&  
L)-- PRPS&5(\$3#0>\$-<&F),7&#9\$&3/\*5\$&7&0,&,<&"#9\$+57/\*0,2&#9)(\$\*0'718#9\$&  
#9\*\$9\$\*+&)>\$\*)2\$&\$,\*\*--+\$,#&.'/-7&,\$&PGAS @&)4#\*\$&\*/',70,2&#9)#&#&#9\$&,\$)\*5#&./+;\$\*8&#9\$&3  
:/'-7 ;\$ )/#"+)#03)--<5\$## PGA

E1&.`A7 [&\$3,0,#1 0#3.(#,/7/ #,.)88C#,\*7C5#.',\$\*3\*\*".##\$\*#.C #-'#9 (0(8#9\$3C).#\$\*3,\$=Vd  
2.#3\*#.\*3,\$\*\*#\$7;43\*#4\$3,4\$.)7,4#4\$10##3.3-#.32#\$F;#178#Se=\$35)-#1#,\$\*\*#\$ (3;\$9'88\$  
37\*)C3\*(3880\$/\$\*\*"#2#/\*(#,/7/ #,.)88C#,\*7C5#.)&\*3\*\*".##0#3.(0(8#

L"\* \$M)+(-\$04N/\*5\$ T&9)73\$,5/5\$)(#/\*7&\$,\*\*--+\$,#5'4 CU&G&7PQ&0,&LPP&L)--  
PRPS&7&L)-- PRPS&5(\$3#0>\$#9\$&,\$: 3)(&.'/-7&,\$&)/#"+)#03)--<&5\$PQ&,\$3)/5\$&#9\$&L)--  
PRPS&,\$\*\*--+\$,#4PQ&:)5\*\$)\$#\*\$9),&CRV "#9\$&#9\$\*+&3\$,5/5\$,\$\*\*--+\$,#&)>\$\*)2\$&"4&PSA&&

S'# 0<>7&\*(< ?)( M7C7>):-&I\$&\*\$H)\*-?D-&I\$0><88/,97\*+>78

J.#) B2R.#) Q%9.+1&a1-&+\*4Y.'+&\*-(

!"# &)88)9',24#348',#/  
!"#2 I h f Q6/2d309.24/MCID 14 >122.Td [l>122.TdP0 -16#)

V"#T-<>3W<@/,97\*+>-&l

`"#, 3()7./# .#E7'.#/3 \*'C# &).3 &',38#J3C:\*\*3\*#J3C9'885#/("#478#450 \*"# +,-#./"0 1#2/'\*.3.  
;#. \*"#&88)9',2\$.78#/<

P',38#J3C/C7/\* 5#"\$84\$3#\$43\*#\$3,4\$\*C#\$)7\*8',#4\$),\$\*"\$P',38Td [(A-1 (Td [(A-1 (Td [(A-1 (Td [A(\*)-