!	! !	
!	!	
!	! !	
!	!	

1 #**#'+&23,3% 4 %+3*&

@:%!ABBC?%!(B!\$D(B%77C(E&,!FG5%DC%E?%7H! I C77C(E!C7<!

!

@(!%E78D%!:CJ:!K8&,C;*!?,CEC?&,!%G5%DC%E?%7!;:&;!5D%5&D%!;%&?:%D!D%7C)%E;7!;(!&778 I%!

!

!"#\$%&' (#)%''*	+!
, /#0\$*+1*2")30\$4)#5*, %6. 7%\$. #)30*8. \$#"0\$4*	9!
! "#\$%\' () #*\$+*, ' ("%&' (/' 0*	1!
2"-3\$' -/4/5/./"-*\$+*.6"*786\$\$5*	1!
, /#0\$*91*: 0. (-0\$*; 04)&0"#*<740" (04*	= !
, /#0\$*=1*: 0. (-0\$*; 04)&0''#*; 04/%''4)7)6)#)04*. ''&*>(-%%6*%?*@&' (. #)%''*; 0A')\$0B0''#4*	C!
9"&%:5\$' 0*2"-/("' 8; *2"<)/%"#"'*	=!
2"-3\$' -/4/5/./"-*\$+*.6"*>7, *2"-/("' .*	=!
?88\$##\$(&./\$' -*()%' 0*7.) ("' .*@"&86/' OAB' ."%' -6/3*	C!
, /#0\$*D1*8\$0/. \$)"E*?%\$*; 04)&0"(5*	F!
@"&86"%2"-/("' .*D5&8"#"' .*&' (*?"' (&' 8"*	E!
>"' 0.6*\$+*.6"*7.) ("' .*@"&86/' 0*F&; *	E!
GDH*! ""./' 0-*12"-/("' 8; *J*&' (*1K*	E!
D&%L/' O*	E!
M\$6\$%.*! ""./' O-*	E!
N/O"*M\$' -"8)./O"*F&; -*\$+*N)5:	

M5&--%\$\$#*! &' &0"#"' .*D5&'*?--/0' #"' .* G).-/("*G4-"%0&./\$' *

!

!

JT!

JT!

```
!

<//0"&)N*>8@L]91*, '$$)('6' B*P. 40&*<44044B0"#*G, P<I*

<//0"&)N*>8@L]=1*!"&)3)&'.6*@&'(.#)%"*86."*G!@8I*

CC!
```

!

#

! \$D(B%77C(E&,!FG5%DC%E?%79!@%&?:%D!D%7C)%E;7!I &*!'%!%G?87%)!BD(I!7?:((,!(E!;:%!)&*!(B!&!BCE&,!%G&I9!\$DC(D!5%DIC77C(E!I87;!'%!(';&CE%)!BD(I!;:%!B&?8,;*!;%&I9!!!]!

_%E;(D!;%&?:%D7!>C7:CEJ!;(!CE?,8)%!D%7C)%E;7!CE!&B;%D27?:((,!&?;CMC;C%7!-78?:!&7!?,8'!I%;CEJ7N!BC%,)!;DC57N!?(EM%E;C(E7N!B%7;CM&,7/!&;!;CI%7!>:%E!D%7C)%E;7!:&M%!&!7?:%)8,%)!8ECM%D7C;*!?,&77!(D!I%;CEJ!7:(8,)!78'IC;&!>DC;;%E!D%K8%7;!23(.'%.3/&8!@:%!8ECM%D7C;*!785%DMC7(D!>C,,!?(E78,;!>C;:!;:%!ABBC?%!(B!\$D(B%77C(E&,!FG5%DC%E?%7!?(E?%DECEJ!;:%!&)MC7&'C,C;*!(B!78?:!CEM(,M%I%E;9!e(;!&,,!5&D;C?C5&;C(E!CE!&B;%D27?:((,!&?;CMC;C%7!>C,,!'%!&55D(M%)9!

89,03%)&H;&C%,\$9%)&A%*#6%+3&A%*0'+*#?#-#3#%*&,+6&2\$9''-&'''&.67\$,3#'+&A%17#)%4%+3*&

J%,)K-'+@&A%*#6%+\$>&A%I7#)% 4%+3*&

!

\$&D;C?C5&;%!B8,,*!CE!)&C,*!&E)!>%%V,*!7?:((,!&?;CMC;C%7!5%D!?%D;CBC?&;C(E!5D(JD& I !D%K8CD% I %E;7!-M&D*!'*!5D(JD& I N!CE?,8)CEJ!7?:%)8,%7!M&D*CEJ!BD(I !B8,,2)&*!;(!?(I 'CE&;C(E!(B!B8,,2)&*7!&E)!:&,B2)&*7!&E)!BD(I !BCM%2)&*!>%%V7!;(!?(I 'CE&;C(E!(B!B(8D2!&E)!BCM%2)&*!>%%V7/9!

\$D%5&D%!B8,,*!&E)!CE!&)M&E?%!B(D!;:%!)8;C%7!&77CJE%)!'*!;:%!I%E;(D!;%&?:%D!&E)!;:%!8ECM%D7C;*!785%DMC7(D!-\$A\$!Q*?,%!5D%5&D&;C(E!&E)!%G%?8;C(EN!,%77(E!5,&E7N!JD&)CEJN!%;?/9!

W%K8%7;!&77C7;&E?%!BD(I!;:%!B&?8,;*!;%&I!-?,CEC?&,!B&?8,;*N!I%E;(D!;%&?:%D!&E)!JD&)8&;%!B&?8,;*!I%I'%D/!>:%E!;%&?:CEJ!&?;CMC;C%7!&77CJE%)!I&*!5D%7%E;!&E!%,%I%E;!(B!DC7V!;(!;:%!7;8)%E;7!(D!D%78,;!CE!8E?%D;&CE;*!&7!;(!:(>!;(!5D(?%%))9!

@%&?:!;:%!D%K8CD%)!5%D?%E;&J%!E8I'%D!;:D(8J:(8;!;:%!D%7C)%E?*!)%M(;CEJ!&!ICECI8I!.!?(E7%?8;CM%!B8,,2)&*7!(B!;%&?:CEJ9!

\$&D;C?C5&;%!CE!;:(7%!5D(B%77C(E&,!&?;CMC;C%7!%G5%?;%)!(B!;:%!I%E;(D!;%&?:%D9!

a DD&EJ%!:%D=:C7!7?:%)8,%!;(!&M(C)!?(EB,C?;!>C;:!I %%;CEJ7!&E)!?(EB%D%E?%7!D%,&;%)!;(!;:%(D%7C)%E?*!%G5%DC%E?%9!@%&?:%D! W%7C)%E;7!7:(8,)!D%MC%>!;:%!A\$F!?&,%E)&D!B(D!%&?:!7%I%7;%D!&E)!5,&E!&??(D)CEJ,*9!

a;;%E)!7?:%)8,%)!*VSO(P&&+23B<(E236"&#<\$3(.3'(W\$\$@F!&E)!?(I5,%;%!&,,!D%K8CD%)!&77CJEI%E*;7!CE! &!;;CI%,*!&E)!;:(8J:;B8,!I&EE%D9!

FEJ&J%!>C;:!;:%!8ECM%D7C;*!785%DMC7(DN! I %E;(D!CE!CEB(D I &,!&E)!B(D I &,!7%,B2%M&,8&;C(E!&E)!(;:%D!%M&,8&;C(E!5D(?%77%79!

a) I CEC7;%D!;:%!)C7?C5,CE%!(B!7;8)%E;7!>C;:!;:%!J8C)&E?%!&E)!?(E7%E;!(B!;:%! I %E;(D!;%&?:%D9!<u>UE)%D</u>! E(!?CD?8 I 7;&E?%7!>C,,!;:%!@%&?:%D!W%7C)%E;!&) I CEC7;%D!?(D5(D&,!58EC7: I %E;9!

a;;%E)! **2\$9''-**&()'"%**#'+,-*&**G**%3M')N#+@&**X**,>9! @:%D%! C7! &! 7?:%)8,%)! **2\$9''-**&()'"%**#'+,-*&**G**%3M')N#+@&**X**,>!) 8DCEJ!%&?:!&?&)% I C?!*%&D9!AE!;:&;!) &*N!D%5D%7%E;&;CM%7!(B!7?:((,!7*7;% I 7!BD(I ! &D(8E)!;:%!?(8E;D*!>C,,!'%!(E!?& I 587!;(!CE;%DMC%>!D%7C)%E;7!B(D!5(7C;C(E79!a;;%E)&E?%!C7!D%K8CD%)N! &E)!@%&?:%D!W%7C)%E;7!&D%!D%,%&7%)!BD(I !7?:((.9!

D\$\$'44'6,3#'+*\(\delta\)7#+@\(\delta\)2376\(\delta\)4\(\delta\),\$9#+@\(\delta\)3\(\delta\)+*9#0\(\delta\)

!

!

T;8)%E;7!D%K8%7;CEJ!&??(I I ()&;C(E7!)8DCEJ!7;8)%E;!;%&?:CEJ!8E)%D!T%?;C(E!.bd!(B!;:%!W%:&'C,C;&;C(E!a?;!(B!PhO#! I 87;!B8,BC,.!;:%!B(,,(>CEJ!D%K8CD% I %E;7<!

W%JC7;%D!>C;:!LTUH7!ABBC?%!(B! j C7& 'C,C;*!T%DMC?%7!-:;;5<=,789%)8=)C7& 'C,C;*/!

\$D(MC)%!;:%!a??(II()&;C(E!L%;;%D!BD(I!iC7&'C,C;*!T%DMC?%7!;(!;:%!ABBC?%!(B!\$D(B%77C(E&,!FG5%DC%E?%79!

a;;%E)! &! I %%;CEJ! >C;:!;:%! ABBC?%! (B! \$D(B%77C(E&,! FG5%DC%E?%7! &E)! &! D%5D%7%E;&;CM%! (B!;:%! ABBC?%! (B!j C7&'C,C;*!T%DMC?%7!;(!)C7?877!>:C?:!&??(II()&;C(E7!&D%!&55D(5DC&;%!B(D!;:%!7;8)%E;!;%&?:CEJ=CE;%DE7:C5!7%I %7:%D9!

a;;%E)!&! I %%;CEJ!>C;:!;:%!ABBC?%!(B!\$D(B%77C(E&,!FG5%DC%E?%7N!;:%! I %E;(D!;%&?:%DN!&E)!;:%!8ECM%D7C;*!785%DMC7(D!;(!)C7?877!:(>!;:%!&??(I I ()&;C(E7!>C,,!'%!5D(MC)%)!(E!7C;%9!!W%7C)%E;7!&D%!E(;!D%K8CD%)!;(!)C7?,(7%!;:%!D%&7(E!B(D!;:%!&??(I I ()&;C(E7!8E,%77!;:%!)C7&'C,C;*!D%K8CD%7!;:%!I %E;(D!;%&?:%D!(D!8ECM%D7C;*!785%DMC7(D!:&M%!75%?CBC?!VE(>,%)J%!B(D!D%E)%DCEJ!I%)C7&.!&77C7;&E?%9!

a;\&E*!5(CE;\CE!;:\%!7\% I \%7;\DN!\;:\%!D\%7C)\%E;!(D\&E*!(;:\%D! I \% I '\%D!(B!;:\%!a??(I I()\&;\C(E7!\@\& I !-;:\%!\&)M(?\&;\%!BD(I ! j \C7\&'\C,\C;*!T\%DMC?\%7\\&E!\&) I CEC7;\D\&;(D!\BD(I ! ;:\%!ABBC?\%!(B!\\$D(B\%77C(E\&,!FG5\%DC\%E?\%7\\!;:\%! I \%E;(D!;\\&?:\\MD!\&E)!;\%! 8ECM\%D7C;*! 785\%DMC7(D\!!?\&E!D\K8\%7;\!\&! I \%\;\CEJ!;(!)C7?\877!\&E*!E\%)\%)!?:\&EJ\%7!\CE!;\\%!5D(MC)\%)!\&??(I I()\&;\C(E7)!

!
\$D(JD%77!D%,&;%)!;(!;:%!5D(MC7C(E!(B!&??(II()&;C(E7!7:(8,)!'%!?,(7%,*!I(EC;(D%)!'*!;:%!I%E;(D!;%&?:%D!
&E)!8ECM%D7C;*!785%DMC7(D!(E!&E!(EJ(CEJ!'&7C7!;:D(8J:(8;!;:%!7%I%7;%D9!aE*!?(E?%DE7!D%J&D)CEJ!&)%K8&;%!
5D(JD%77!>C,,!D%78,;!CE!&!D%?(EM%ECEJ!(B!;:%!a??(II()&;C(E7!@%&I!CB!&)Z87;I%E;7!&D%!E%?%77&D*9!

89,03%)&V;&()%0,)#+@&"')&**A**%*#**6**%+\$>&

C%, \$9%)&A%#6%+3&(-, \$% 4%+3&, +6&D33%+6,+\$%&

!

!

@%&?:%D!D%7C)%E;7!'%JCE!;:%CD!D%7C)%E?*!;:%!BCD7;!)&*!(B!D%7C)%E?*!7C;%H7!(BBC?C&,!7?:((,!7*7;% I!?&,%E)&D! -+'3&E2</9!@%&?:%D!

 $a;;%E)\&E?\%!\&;!\&,,!I \%;;CEJ7!C7!\underbrace{\textbf{4},\textbf{+6},\textbf{3}')}{\textbf{9}!}\$E?;8\&,C;*!C7!\%G5\%?;\%)9!XB!\&!D\%7C)\&E;!VE(>7!CE!\&)M\&E?\%!;:\&;!\\7:\%=:\%!I 87;\%C;:\%D!I C77!(D!'\%!,\&;\%!;(!&!I \%);CEJN!7:\%=:\%!7:(8,)!?(E;&?;!;:\%!UECM\%D7C;*!T85\%DMC7 (D9!a!@%&?:\%D!W\%7C)\&E;!>:(!I C77\%7!\&,,!(D!5\&D;!(B!\&!I \%);CEJ!>C;:(8;!&E!&55D(M\%)!\%G?87\%!>C,,!'\%!D\%K8CD\%)!;(!I &V\%!&E!&55(CE;I \%E;!>C;:!;:\%!785\%DMC7 (D!&E)!Q((D)CE&;(D!(B!;:\%!ABBC?\%!(B!\$D(B\%77C(E\&,!FG5\%DC\%E?\%7!;(!)C7?877!;:\%!,\&?V!(B!5D(B\%77C(E&,C7I!78JJ\%7;\%)!'*!;:C7!'\%:&MC(D9!a;;%E)CEJ!;(!&77CJEI\%E;7!B(D!&!5\&D;C?8,&D!?(:(D;!I \%);CEJ!C7!&,7(!&E!CE)C?&;(D!(B!5D(B\%77C(E&,C7I!&E)!C7!\%G5\%?;\%)!BD(I!%&?:!D\%7C)%E;9!$

Z7--K6,>*&'"&C%,\$9#+@[&Z#=%&8'+*%\$73#=%&X,>*&'"&Z7--KX,>&C%,\$9#+@&&

!

!

\8,,!\&*7!(B!;%&?:CEJ!>C,,!M&D*!)%5%E)CEJ!(E!;:%!7% I %7;%D!&E)!5D(JD& I 9!@:C7!D%K8CD% I %E;!>C,,!'%!B(8E)!
(E!*(8D!5D(JD& I H7

89,03%) &Q; &D**#@+4%+3*&,+6&.=,-7,3#'+&'''&C%,\$9#+@&0(!(&8>\$-\%\\&\)

.=,-7,3#'+&'"&C%,\$9#+@&

!

!

@FaQ+FW!WFTXjFe@!\$A\$!QSQLF<!\$D%2?(EB%D%E?%N!A'7%DM&;C(EN!\$(7;2?(EB%D%E?%!

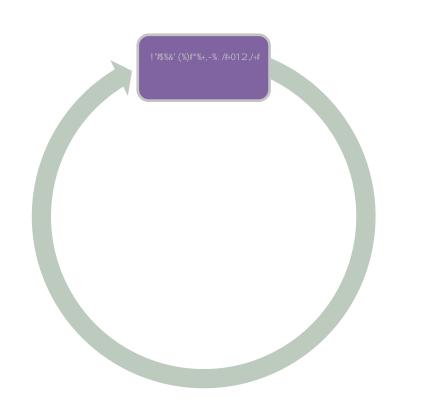
@:%! \$A\$! Q*?,%! ?(E7C7;7! (B! &! 5D%2?(EB%D%E?%N! ('7%DM&;C(E! -5%DB(D I &E?%! &77%77 I %E;/N! &E)! &! 5(7;2

5+"") 4, -&!?*%)=,3#"+&

!

f%;>%E!;:%!"!B(D I &,!('7%DM&;C(E7N!;:%!UECM%D7C;*!T85%DMC7(D!>C,,!?(I 5,%;%!&E!CEB(D I &,!('7%DM&;C(E!;(!I (EC;(D!*(8D!5D(JD%77!&E)!85)&;%!;:%!?(&?:CEJ!B(D I !BD(I !;:%!BCD7;!B(D I &,!('7%DM&;C(E)!@:%!58D5(7%!(B!&E!CEB(D I &,!('7%DM&;C(E)!@:%!58D5(7%!(B!&E!CEB(D I &,!('7%DM&;C(E)!@:%!58D5(7%!(B!&E!CEB(D I &,!('7%DM&;C(E)!;:%!CD!;%&?:CEJ!7VC,,7!&E)!D%?%CM%!B%%)'&?V!CE!&!,(>27;&V%7!%EMCD(E I %E;!5DC(D!;(!;:%!I (D%!B(D I &,!\$A\$!Q*?,%!('7%DM&;C(E)!j 8DCEJ!&E!CEB(D I &,!('7%DM&;C(EN!;:%!785%DMC7(D!C7!;:%!5DC I &D*!?(&?:!&E)!5D(MC)%7!B%%)'&?V!&E)!7855(D;!;:D(8J:(8;:%!5D(?%779!j 8DCEJ!;:%!CEB(D I &,!('7%DM&;C(E)!;:%!785%DMC7(D!>C,,!'%!,((VCEJ!B(D!%MC)%E?%!;:&;!;:%!;%&?:%D!D%7C)%E;!C7!&',%!;(!5,&EN!C I 5,% I %E;N!&E)!D%B,%?;!(E!;:%CD!,%77(E9!@:%!B(?87!(B!;:%!CEB(D I &,!('7%DM&;C(E!>C,,!'%!(E!;:%!;%&?:%D!D%7C)%E;H7!&'C,C;*!;(!)% I (E7;D&;%!;:%CD!8E)%D7;&E)CEJ!(B!;:%!?(E;%E;!&D%&!&E)!;:%CD!&'C,C;*!;(!%EJ&J%!7;8)%E;7!CE!,%&DECEJ9!

a;!;:%!%E)!(B!;:%!CEB(D I &,!('7%DM&;C(EN!;:%!785%DMC7(D!>C,,!?(E78,;!>C;:!;:%! I %E;(D!;%&?:%D!(B!&E*!85)&;%7! (D!B%%)'&?V9!@:%!785%DMC7(D!>C,,! I %%;!>C;:!;:%!@%&?:%D!W%7C)%E;!;(!)C7?877!;:%!('7%DM&;C(EN!D%MC%>!;:%! \$D(JD%77!_(EC;(DCEJ!B(D I N!&E)!85)&;%!;:%!Q(&?:CEJ!\$,&E!-CB!E%?%77&D*/9!!



A%*#6%+\$>&D**#@+4%+3*&

@:%!B(DI&;CM%!&77CJEI%E;7N!B(8E)!(E!%&?:!5D(JD&IH7!_((),%!5&J%N!&D%!?%E;D&,!;(!;:%!D%7C)%E?*N!:&M%!I&E*!&E)!M&DC%)!58D5(7%7<!;(!)(?8I%E;IJD(>;:\&7!&!'%JCEECEJ!%)8?&;(DN!;(!5D(I(;%!D%B,%?;C(EN!;(!%E:&E?%!8E))%D7;&E)CEJ!(B!D%7C)%E?*!%G5%DC%E?%7N!;(\!B&?C,C;&;%!?(II8EC?&;C(E\&I(EJ\&,,\CEM(,M%)\!CE!;:\%!5D&?;C?8IY!&E)N!;(\!7%DM\%!&7!\&!'&7C7\BD(I!>:C?:!;:\%!5D&?;C?8I!JD\&)\%!C7!)\%DCM\%)9!!

(,)3+%)*9#0&D@)%%4%+3&

!

F7;&',C7:CEJ!&!;D87;CEJ!D%,&;C(E7:C5!C7!MC;&,!B(D!;:%! I %E;(D2 I %E;%%!D%,&;C(E7:C59!@(J%;:%D!;:%! I %E;(D!&E)! E(MC?%!;%&?:%D!%G5%DC%E?%!?(,,&'(D&;CM%!5D(B%77C(E&,!,%&DECEJ!;:D(8J:!;:%CD!(EJ(CEJ!D%B,%?;C(EN!)C&,(J8%N! %EJ&J% I %E;!CE!;:%!B%%)'&?V!5D(?%77N!&E)!>C,,CEJE%77!;(!CEK8CD%!&'(8;!(E%!&E(;:%DH7!5D&?;C?%9!

S(8!&E)!*(8D!_%E;(D!@%&?:%D!E%%)!;(!%7;&',C7:!&!\$&D;E%D7:C5!aJD%%I%E;9!@:%!)(?8I%E;7!(E!_((),%!>C,,!:%,5!J8C)%!;:%!?(EM%D7&;C(E9!AE?%!*(8!:&M%!?D&B;%)!&E)!%&?:!7CJE%)!;:%!&JD%%I%E;N!5,%&7%!78'IC;!C;!;(!_((),%)!

\ \%\N->&E'@&''\&L'7)*&

!

S(8! I 87;! 78' I C;! *(8D!, (J! (B!:(8D7! %&?:!>%%V9! @:%! 75D%&)7:%%;!)CMC)%7! D%7C)%E?*! &?;CMC;C%7! CE;(! ('7%DM&;C(EN!5&D;C?C5&;C(EN!&E)!;%&?:CEJ9! f %!78D%!;(!D%MC%>!;:%!@%&?:CEJ!Q:%&;!7:%%;!;(!8E)%D7;&E)!>:&;! K8&,CBC%7!&?!;%&?:CEJ9!

C9%\)%*#6%+3\(\delta\) '=#6%\(\delta\)9%\(\delta\)4%+3')\(\delta\)3%,\$9%\\\delta\)M#39\(\delta\)6%\(\delta\)3%+\(\delta\)43%+\(\delta\)-%**'+\(\delta\)0,+\(\delta\)0)#')\(\delta\)3'\(\delta\)5\(\delta\)5\(\delta\)5\(\delta\)6%\(\delta\)3%+\(\delta\)6%\(\delta\)788BC?C%E;!;CI\(\delta\)1 ()CBC?\(\delta\);C(E7!5DC(D!;(!;:\delta!;:\delta!;:\delta!;:\delta!,\delta\)77(E9!!

@:%!@%&?:%D!Q&E)C)&;%7!>C,,!78'IC;!;(!_((),%!&;!,%&7;!"!,%77(E!5,&E7!>%%V,*!;:%*!:&M%!;&8J:;!&E)!:&M%! D%?%CM%)!B%%)'&?V!BD(I!::%!I%E;(D!;%&?:%D!&E)!=(D!785%DMC7(D9!

(-,++#+@&

T;8)%E;!;%&?:CEJ!D%K8CD%7!&)M&E?%)!5,&EECEJ!(E!;:%!5&D;!(B!'(;:!;:%!D%7C)%E;!&E)!;:%!I %E;(D!;%&?:%D9!@:C7! 5,&EECEJ! I 87;!D%,&;%!;(!7% I %7;%D=>%%V,*=)&C,*!5,&E7N!&7!>%,,!&7!7?:%)8,CEJ!(B!75%;CBC?!?,&77%7!;&8J:;!'*!;:%!D%7C)%E;9!]DC;;%E!,%77(E!5,&E7!&D%!D%K8CD%)!B(D!&,,!,%77(E7!B(D!>:C?:!;:%!D%7C)%E;!&778 I %7!D%75(E7C'C,C;*! B(D!;%&?:CEJ9!@:%!I %E;(D!;%&?:%DH7!5,&E7! I &*!7%DM%!&7!&!'&7C7!B(D!;:%!D%7C)%E;H7!,%77(E!5,&E7!'8;!7:(8,)! E(;!'%!;:%!D%7C)%E;H7!(E,*!)(?8 I %E;&;C(E9!XBID%7C)%E;!;%&?:BD(I !&!;%&?:%DH7!,%77(E!5,&EN!E(;%7!(D!?(I I %E;7!(E!;:%!5,&E7! I 87;!'%!%MC)%E;!CE)C?&;CEJ!;:%!D%7C)%E;H7!B&IC,C&DC;*!>C;:!;:%!,%77(E%

T5%?CBC?!5,&EECEJ!;%?:ECK8%7! I 87;!&??(I I ()&;%!;:%!7;*,%N!%G5%?;&;C(E7N!&E)!%G5%DC%E?%!(B!;:%! I %E;(D!;%&?:%D9!L(8C7C&E&!7;&E)&D)7!(D!(;:%D!?(I 5&D&',%!J8C)%,CE%7!D%K8CD%)!'*!;:%!7?:((,=)C7;DC?;!&7!>%,,!&7!CE)CMC)8&,17;8)%E;!E%%)7!7:(8,)!'%!?(E7C)%D%)!>:%E!5,&EECEJ9!a;!;:%!'%JCEECEJ!(B!;:%!7% I %7;%DN!;:%! I %E;(D!;%&?:%D!7:(8,)!7:&D%!>C;:!;:%!D%7C)%E;!7& I 5,%!5,&E7!-)&C,*N!8EC;N!7% I %7;%DN!&E)!*%&D/N!7& I 5,%!&?;CMC;C%7N!5D(Z%?;7N!;%7;7N!&E)!CE7;D8?;C(E&,! I &;%DC&,79!\$,&EECEJ!7:(8,)!'%!&!?((5%D&;CM%!M%E;8D%!'%;>%%E!;:%!D%!&E)!;:%! I %E;(D!;%&?:%D!;(!CE78D%!8E)%D7;&E)CEJ!&E)!&'C,C;*9!a7!;:%!D%7C)%E;!J&CE7!CE!5D(BC?C%E?*!CE!5,&EECEJN!:%-7:%!C7!JCM%E!JD%&;%D!D%75(E7C'C,C;*!B(D!;:C7!&D%&!(B!;%&?:CEJ9!

\ \%\N->&\A\%''-\\\$3\\' +*\&

<+#3&(-,+!-XB! a 55,C?&',%!;(!\$D(JD&I/!

@:%!@%&?:%D!Q&E)C)&;%!>C,,!?D%&;%!&E)!;%&?:!&!?(I5D%:%E7CM%!8EC;!5,&E9!@:%!8EC;!5,&E!I87;!D%?%CM%!B%)'&?V!&E)!'%!&55D(M%)!'*!;:%!I%E;(D!;%&?:%D9!Q:((7%!(E%!(B!;:%!A\$F!,%77(E!5,&E!;%I5,&;%7!;(!?(I5,%;%!;%!)&C,*!,%77(E79!@:%!%M&,8&;CM%!D8'DC?!C7!(E!_((),%9!

C%,\$9#+@&(9#-'*'09>&

!

a!\$:C,(7(5:*!(B!@%&?:CEJ!C7!&!7;&;% I %E;!(B!*(8D!M&,8%7!&E)!'%,C%B7!(B!;%&?:CEJ!&E)!,%&DECEJ9!@:C7!7;&;% I %E;!>C,,!?:&EJ%!&7!*(8!5D(JD%77!;:D(8J:!*(8D!D%7C)%E?*9!LC7;%)!'%,(>!&D%!7(I %!;:(8J:;7!;(!V%%5!CE!ICE)!&7!*(8!>DC;%!;:%!7;&;% I %E;&

: (>!)(!*(8!%E&?:!*(8D!:%&?:CEJ!'%,C%B7!

: (>!:&7!*(8D!;%&?:CEJ!5D&?;C?%7!%M(,M%)!

>:&;!*(8!:&M%!)(E%!;(!?:&EJ%!(D!%E:&E?%!*(8D!;%&?:CEJ!5D&?;C?%7!

>:&;!&D%!7(I%!CEE(M&;C(E7!*(8!:&M%!CE?(D5(D&;%))!CE;(!*(8D!;%&?:CEJ9!

2376%+3&E%,)+#+@&C,)@%3*!-a55%E)CG!X/!

!

!

!

T;8)%E;!L%&DECEJ!@&DJ%;7!-TL@7/!&D%!&!?D8?C&,!5&D;!(B!&!;%&?:%DH7!QA_\$ a TT!%M&,8&;C(E9!U7%!;:%! I &;%DC&,7! BD(I!LjAF!-(E!_((),%/!;(!?D&B;!*(8D!TL@79!@:%!J8C)%,CE%7!:&M%!5D(I5;CEJ!K8%7;C(E7!;:&;!>C,,!:%,5!*(8! &55D(5DC&;%!TL@79!

()'"\%**\#'+,-\&F)'M39\&(-,+\!-a55\%E)\CG\!g/\!

\$D(B%77C(E&,!mD(>;:!\$,&E7!-\$m\$7/!5D(MC)%!&E!(55(D;8EC;*!B(D!%)8?&;(D7!;(!7%;!75%?CBC?!J(&,7!&E)!?D%&;%!&?;C(E!5,&E7!;:&;!>C,,!:%,5!;:%CD!5D(M%!;:%CD!5D(B%77C(E&,!5D&?;C?%!&E)!:%,5!;:%CD!7;8)%E;7! I %%;! I (D%!DCJ(D(87!7;&E)&D)79!\$m\$7!:%,5!%)8?&;(D7!;(!B(

! 89,03% & [3% X7] # + @&, + 6&. + 6&' & ()' @), 4& ()' % 67) % &, + 6& C), + *#3#' + *& C%, \$9% & 8% 3 #' # \$, 3 #' + &

! "9!

!

P.

D"3%)&39%&23') 4 &

 $\label{top:control_control_control} \begin{tabular}{ll} UECM%D7C;*!785\%DMC7 (D7!7:(8,)!?(E;\&?;!;%\&?:%D!D%7C)%E;7!;(!CEK8CD%!\&'(8;!;:%CD!>%,,2'%CEJ9!\ a\)\)\ C;C(E\&,,*N!); &$:*!7:(8,)!)%; DICEM!;:%!D%; DK;8DE!)\&;%!B(D!D%7C)%E;7!B(D!;:%CD!D%75%?; CM%!7?:((,7!\&E)!?(IIBCC?\&;%!;:C7!CEB(DI&;C(E!;(!7;8))%E;79!)). The property of the$

C%,\$9%)&A%*#6%+3*&

!

W%7C)%E;7!7:(8,)!?(E;&?;!;:%!8ECM%D7C;*!785%DMC7(D!&E)! I %E;(D!;%&?:%D!&'(8;!;:%!)&;%!;:%*!&D%!;(!D%;8DE!;(!7?:((,9!

! & & **D00%+6#/&D;&X,#->&C#4%&E'@&**

F,% I %E;&D*!&E)! j 8&,!Q%D;9!\$D(JD& I 7&

2376%+3&C%,\$9%)& & & 2\$9''-&X,3%&

&

!

!

_(E)&*!Q(E;%E;!	A'7%DM&;C(E!	\$&DC?C5&;C(E!	@%&?:CE J !	@(;&,!@CI%!
! "#\$%"\$&' ()*+!	!	!	!	!
, "*-& . "*/0+!	!	!	!	!

10/�&!!!!!!

D00%+6#/&^;&^#'@),09#\$,-&X,3,YD73'?#'@),09>&

!''#\$%&'(' <u>'</u>	1	1	1	1	1	1	•	1	'	1	1111		
'#\$%% %	5	5	&'(#\$\\\	5	5) '**+,-) "'*,.%						
(* ' &+(+,\$-	*(//''	•	•	,	1	•	•	•	,	•	•	•	
` ` `	/\$(,,\$%	5	5	0'\$1%	5	/\$"\$,55	\$\$\$\$\$\$\$2'	'3\104*,'			<u></u>		
"**(+,\$ <u>1 &2#</u>	2+3\$ *	:(//''	•	•	,	•	•	•	,	•	"	1111	""
` /	/\$(,,\$%	55	5	0'\$1%	5	/\$"\$,55	%%%%%%% 2 '	'3\104*,'			<u>_</u>		
''**(+,\$ <u>)45/</u>	'26&#\$ ³</td><td>*(//''</td><td>•</td><td>,</td><td>1</td><td>•</td><td>•</td><td>•</td><td>,</td><td>•</td><td>•</td><td>1111</td><td></td></tr><tr><td>` / </td><td>/\$(,,\$%</td><td>1</td><td>5</td><td>0'\$1%</td><td>5</td><td>/\$"\$,55</td><td>\$\$\$\$\$\$\$\$ 2 '</td><td>3\\04*,\\</td><td></td><td></td><td><u></u></td><td></td><td></td></tr><tr><td>47+('6<u>' '</u></td><td>7<u>'</u></td><td>'</td><td>''''6<u>'</u></td><td>7'<u>'</u></td><td>'</td><td>1</td><td>''6<u>'</u></td><td><u>''</u>7'<u>'</u></td><td>•</td><td>•</td><td><u>'</u></td><td></td><td></td></tr><tr><td>(6".,.\$\\</td><td>5</td><td>\$\$\$\$\$\$\$\$\$ C</td><td>7((,.\$\\</td><td>%</td><td>5</td><td>\$\$\$\$\$ O ,++\$\$</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>' &2#'' '</td><td>,</td><td>,</td><td>,</td><td>,</td><td>- #, (*</td><td>*+&,(\$8 ' &</td><td>2#'"</td><td>•</td><td></td><td></td><td></td><td></td><td></td></tr></tbody></table>												

D00%+6#/&&

!

"#

! **D00**%+6#/&X;&8'+*%+3&3'&<*%&54,@%0*W&,+6&A%\$')6#+@*& ! ! ! 8"#\$%#&!&"!<\$%!5'()%0\$\\!(#*!A\%+\",*-\#)\$\\ !

!	İ	ļ.
!		; <\$O14)'!8%-43()=!! 89')#58%/!: "3#!>)%, "#!?)\$)#!-"%(3-,!\$!4)''"%!! @\$, 8%/!,.)! 8%',#3-,8"%\$4! B1)-8\$48',! O"()4! 8%',#3-,8"%\$4!
ļ !	()*8%) (! \$'! ,.)! 1)#*"#O\$%-)!"*!\$%:!	?: 1&-\$4:H!,)\$)#!#)'&()%,'!1\$#,&-&1\$,)!&%!4)''"%'!'""%!\$*,)#! ,.)!*&#',!*)+!(\$:'!"*!,.)!')O)',)#!\$%(!-"%,&%3)!,.#"3/."3,! &%!\$((&,&"%!,"!,)\$&%/7!?.)!%3O9)#!"*!1\$#,&-&1\$,&"%!."3#'! &%!\$!(\$:!-\$%%",!)<-))(!,.)!%3O9)#!"*!."3#'!,)\$)#! #)'&()%,'!\$#)!&%!,.)!'""4!93&4(&%/!"#!\$!-"."#,!'),,&%/7!! !! B,"1!\$%(!\$'I!:"3#')4*H!JKO!A!,)\$&%/!,.)!-"%-)1,!"#!,"1&-! "#!(&(!,.)!,)\$)#!("!,.\$,!\$%(!A!\$O!%"+!/"&%/!,"!.)41!,.)! ',3()%,LM!A*!:"3#!\$%'+)#!&'!N; 0G!?N; !B?PQ; R?H!,.)%!,.&'!&'! 1\$#,&-&1\$,&"%\$R8?!?; KFNART7!!A*!:"3!/"!',#\$&/.,!,"!,.)! &%()1)%()%,! 1#\$-,&-)\$\$-,&5&,:H!+"#I'.)),H!\$''&/%O)%,H!),-U\$,.)%!:"3!.\$5)%D,!,\$3/.,!\$%:,.&%/7!! !! ;<\$O14)'!&%-43()=!!

"

! @\$,-. 8%/!,.)! A%',#3-,&''%\$4! B1)-&\$4&',!O''()4! &%',#3-,&''%\$4! ,)-. %&C3)'!"#!)<)O14\$#!4)''"%'!! K%:! \$(O&\&',#\$,&''\%! ''*! \$\%! \$'')''O)\%,! \%))('!,"! 9)! -\$,)/"#\(\mathbb{Z}\)(!\$'!'"!,.\$,!+)!-\$\(\mathbb{I}\)("-3O)\(\mathbb{I}\),!."+!O\$\(\mathbb{I}\):"3\(\mathbb{I}\)! : "3!. \$5)!)<1)#&)%-)(!+&,.!1#"-,"#&%/!\$'')''O)%,'!\$%(2"#!)<\$O'7!!?. &'!-\$%!9)!+. "4)6-4\$''H!'O\$4!!/#"31H!"#!&%(&5&(3\$47! ["3!O3',!4"/!,.&'!"%!,.)!K(O&%\',#\$,&"%!"*!K'')''O)%,'! *"#O7!!

@%&?:CEJ! @%&?:CEJ! ^@%&?:CEJ`! C7!)%BCE%)! &7! >:%E! D%7C)%E;7! &D%!)CD%?;,*! D%75(E7C',%! CE7;D8?;C(E9! %G5%?;&;C(E! C7! ;: &;! > : %E! (E%! C7! ^;%&?:CEJ`! :%! (D! 7:%!:&7!&E)!B(,,(>7!)&! ,%77(E! 5,&E! ?D%&;%)! '*! ;:%! D%7C)%E:! (D! ::%! I %E;(D9! a,;:(8J:!);:%!8,;CI&;%!J(&,!C7! B(D!%&?:!D%7C)%E;!;(!

&778 I %!

?,&77D((I! CE7;D8?;C(E! -5,&EECEJN! CE7;D8?;CEJN!)C7?C5,CECEJN!

%M&,8&;CEJ/N!

! ! D%75(E7C'C,C;*! B(D!

;%&?:CEJ! C7! E(;!

B8,,!

&E)!

j CBB%D%E;! &55D(&?:%7!;:%! D%7C)%E;! ?(8,)! % I 5,(*!;(! $?(8E;!^{\ \ \ \ }:CEJ^{\ \ \ }:(8D7!B(,,(>9!!$]:(,%!?,&77!CE7;D8?;C(E! TI &,,!JD(85!CE7;D8?;C(E! B(D! XE)CMC)8&,! CE7;D8?;C(E! (D!;8;(DCEJ!-5&C)! &B;%D27?:((,! @:%!;8;(DCEJ&**8DGG!C**!'%!CE?,8)%)!CE!;:%!;%&?:CEJ!,(J/!

```
D%7;DC?;%)!7(,%,*!;(! _ &E&JCEJ!?%E;%D7=7;&;C(E7!
&!B8,,2?,&77!7%;;CEJ9!
a! M&DC%;*!
                 (B!
                ;(!!
&55D(&?:%7!
\%?:CEJ!>C,,! (E,*!
&,,(>!;:%!D%7C)%E;!
;(! &778 I %! B8,,!
D%75(E7C'C,C;*! &E)!
%EDC?:!
               ;:%!
5D&?;C?8 I!
%G5%DC%E?%9!
              !a,,!
CE7;&E?%7!
                 (B!
^;%&?:CEJ`! I 87;!'%!
&770JE%)!
                 (D!
D%K8%7;%)! '*! ;:%!
I %E;(D!;%&?:%D9!
!
```

!!

D00%+6#/&Z;&27?*3#373%&('-#\$>&,+6&D@)%%4%+3&Z')4& &

!

!

!

L(8C7C&E&!T;&;%!UECM%D7C;*!-LTU/!@%&?:%D!W%7C)%E;7!>C,,!'%!5%DIC;;%)!;(!&?;!&7!78'7;C;8;%!;%&?:%D7!)8DCEJ!;:%CD!*%&D,(EJ!D%7C)%E?*!%G5%DC%E?%!8E)%D!;:%!ABBC?%!(B!\$D(B%77C(E&,!FG5%DC%E?%7!-A\$F/!?(E)C;C(E7!(8;,CE%)!'%,(>9!T8'7;C;8;%!@%&?:CEJ!C7!eA@!&!5D(JD&I!D%K8CD%I%E;!B(D!

!

	DEPART	MENT of
	-EUI	CATIO
Nan-States	hortened by the fire	kasiatiak inabilisis
BECSI	ana bei	TENES IC



Partnership Agreement Conversation

Mentor Name	
Mentee Name	
Date	

Questions to Discuss	Notes

35

Louisiana DOE Mentor Teacher Training, Module 1

D00%+6#/&L;&!73*#6%&!?*%)=,3#'+*&

-XB!\$D(JD&I!a55,C?&',%/!

!

١

@:%!;%&?:%D!D%7C)%E;! I &*!'%!D%K8CD%)!;(!('7%DM%!(8;7C)%!,%77(E7!CE!?,&77%7!(;:%D!;:&E!;:%!&77CJE%)!D%7C)%E?*9!W%K8CD% I %E;7! I &*!M&D*!'*!5D(JD& I Y!;:%D%B(D%N!;:%!8ECM%D7C;*!785%DMC7(D!>C,,!75%?CB*!;:%!;*5%7!(B!('7%DM&;C(E7!D%K8CD%)9!!!

1 %%5!;: C7!?: &D;!(E!;: %!('7%DM&;C(E!7%?;C(E!(B!*(8D!5(D;B(,C(9!

X,3%å	C# 4 %å	2\$9''-&	27?`%\$3&	F),6%&E%=%-&
!	!	!	!	!
!	!	!	!	!
!	!	!	!	!
!	!	!	!	!
!	!	!	!	!
!	!	!	!	!
!	!	!	!	!

m%;;CEJ!;:%!?,&77!7;&D;%)!

]:&;!'DCEJ7!;:%!?,&77!;(!&;;%E;C(Ev!

+(>!&D%!CEC;C&,!D(8;CE%7!:&E),%)v!

+(>!C7!;:%!?(E;CE8C;*!>C;:!5D%MC(87!>(DV!%7;&',C7:%)v!

] : &;! I (;CM&;C(E&,!;%?:ECK8%7!&D%!87%)v!

#d

!
mCM%7!?,%&D!)CD%?;C(E7=87%7!%G& I 5,%7!
+&7!VE(>,%)J%!(B!78'Z%?;!
a'C,C;*!;(!K8%7;C(E!
T;8)%E;7!8E)%D7;&E)!&E)!&D%!(E!;&7V!
T;8)%E;!CE;%D%7;=CE;%D&?;C(E!
_(EC;(D7!7;8)%E;7!&E)! I &V%7!&)Z87; I %E;7!
Q(E;CE8C;*!'%;>%%E!&?;CMC;C%7!
U7%7!&!M&DC%;*!(B!;%?:ECK8%7=?D%&;CMC;*!
\$D(MC)%7!5(7C;CM%!D%CEB(D?% I %E;!
Q,&77D((I!I&E&J%I%E;!7VC,,7!
AM%D&,,!;%&?:CEJ!5%DB(DI&E?%!

D00%+6#/&5;&2376%+3&E%,)+#+@&C,)@%3*&

!

!

!

@:%!58D5(7%!(B!;:C7!%G%D?C7%!C7!B(D!@%&?:%D!W%7C)%E;7!;(!5D&?;C?%!?D&B;CEJ!T;8)%E;!L%&DECEJ!@&DJ%;7!-TL@7/!
'%B(D%!%E;%DCEJ!;:%!?,&77D((I9!\(D!I(7;!5D(JD&I7N!;:C7!&77CJEI%E;!>C,,!'%!?(I5,%;%)!'(;:!7%I%7;\D7!(B!;:%!*%&D2,(EJ!D%7C)%E?*9!T?:((,!7*7;\%I7!D\K8CD\%!;\&?:\D7!;(!7\%;!&!ICECI8I!(B!;>(!T;8)\%E;!L\%&DECEJ!
@&DJ\%;7!-TL@7/!'&7\%)!(E!7;&;\%2

mD&)% </th <th>T8'Z%?;<!--</th--><th>XE;%DM&,!(B!XE7;D8?;C(E<!--</th--></th></th>	T8'Z%?; </th <th>XE;%DM&,!(B!XE7;D8?;C(E<!--</th--></th>	XE;%DM&,!(B!XE7;D8?;C(E </th

#1

f &7%)!(E!;:%!)&;&N!>:&;!?&E!X!?(E?,8)%!&'(8;!7;8)%E;7H!D%&)CE%77v!	
u .	

 $\&52\&\ CL.A.\&\ D\&\ FA!<(\&\ !Z\&\ 2C< X.GC2\&\ !G\&\ \setminus\ L58L\&\ 5\&\ 2L!< EX\&\ Z!\ 8<2\&\ CL52\&\ E.DAG5GF\&CDAF.Cb\&$

D00%+6#/&c;&()''%**#'+,-&F)'M39&(-,+&

!

!

\$D(B%77C(E&,!mD(>;:!\$,&E7!-\$m\$7/!5D(MC)%!&E!(55(D;8EC;*!B(D!%)8?&;(D7!;(!7%;!75%?CBC?!J(&,7!&E)!?D%&;%!&?;C(E!5,&E7!;:&;!>C,,!:%,5!;:% I !C I 5D(M%!;:%CD!5D(B%77C(E&,!5D&?;C?%!&E)!:%,5!;:%CD!7;8)%E;7! I %;! I (D%!DCJ(D(87!7;&E)&D)79!\$m\$7!:%,5!%)8?&;(D7!;(!B(?87!;:%CD!5D(B%77C(E&,!JD(>;:!%BB(D;7!&E)!?&E):%,5!7?:((,!&E)!)C7;DC?;!,%&)%D7!5,&E!5D(B%77C(E&,!)%M%,(5 I %E;!(55(D;8EC;C%7!;:&;!;&DJ%;!;:%!E%%)7!(B!;:%CD!% I 5,(*%%79!!a!7;D(EJ!\$m\$!C7!&,CJE%)!;(!;:%'17;&E)&D)7!(B!5D(B%77C(E&,!5D&?;C?%!85(E!>:C?:!;:%%))8?&;(D!>C,,!'%!M&,8&;%)!&E)!;&DJ%;7!75%?CBC?!E%)7!&E)!7;D%EJ;:7!>C;:CE!;:(7%!7;&E)&D)7!;:&;!D%B,%?;!;:&;!% I 5,(*%H7!JD%&;%7;(55(D;8EC;C%7!B(D!JD(>);:9!a!7;D(EJ!\$m\$!7:(8,)!CE?,8)%!&!7%;!(B!&?;C(E!7;%57N!D%7(8D?%7!E%))%)N!&E)!;&DJ%;!)&;%!(B!?(I 5,%;C(E!;(!%E78D%!;:&;!;:%!5,&E!D%78,;7!CE!?(E?D%;%!&?;C(E7!&E)!I %&78D&',%!(8;?(I %7!B(D!;:%!%)8?&;(D!2;:%;1))&;%]&;(B!2*(EJ(CEJ!)C&,(J8%!'%;>%E!&E!%)8?&;(D!&E)!;:%(D!M%,8&;(D!&E)!;:%(D!M%,8&;(D!&E)!);:%(D!MM&,8&;(D!&E)!;:%(D!AF));:D(BJ:(8;!;:%!*%&D!;(!&77%77!5D(JD%77!&E)!D%BCE%!('Z%?;CM%79!(

!	

!

 $\begin{aligned} & \text{FG5,\&CE!};: \%!) \\ & \text{CBB\%D\%E;}! > \&*7!*(8! > \complement,.)!? (\text{IIBEC?\&;\%!} > \complement;: !5\&D\%E; 79!XE?, 8) \%!\&!7\& \text{I5,\%!,\%;;\%D!-(D!(;: \%D!I\%E7!; (!2.1.18EC?\&;\%! > \complement;: !5\&D\%E; 78!Y8?: !2.1.28EC?\&;\%! > \ell;: !5\&D\%E; 78!Y8?: !2.1.28EC?\&;\%! > \ell;: \%!BC; \%!B$

 $\texttt{XEB(DI\&;C(E!\&'(8;!:(>!;:\%*!?\&E!\&77C7;!;:\%CD!?:C,)!CE!I\&7;\%DCEJ!;:\%!8EC;H7!?(E;\%E;!\&E)!7VC,,7! } \\ \texttt{XEB(DIA\&;C(E!\&'(8;!:(>!;:\%*!?\&E!\&77C7;!;:\%CD!?:C,)!CE!I\&7;\%DCEJ!;:\%!8EC;H7!?(E;\%E;!\&E)!7VC,,7! } \\ \texttt{XEB(DIA\&;C(E!\&'(8;!:(>!;:\%*!?\&E!\&77C7;!;:\%CD!?:C,)!CE!I\&7;\%DCEJ!;:\%!8EC;H7!?(E;\%E;!\&E)!7VC,,7! } \\ \texttt{XEB(DIA\&;C(E!\&'(8;!:(>!;:\%*!?\&E)\&77C7;!;:\%CD!?:C,)!CE!I\&7;\%DCEJ!;:\%!8EC;H7!?(E;\%E;!\&E)!7VC,,7! } \\ \texttt{XEB(DIA\&;C(E!\&'(8;!:(>!;:\%*!?\&E)\&77C7;!;:\%CD!?:C,)!CE!I\&7;\%DCEJ!;:\%!8EC;H7!?(E;\%E;\&E)!7VC,,7! } \\ \texttt{XEB(DIA\&;C(E!\&'(8;!:(A!)))} \\ \texttt{XEB(DIA\&;C(E!\&'(1,A!))} \\ \texttt{XEB(DIA\&;C(E!\&'(1,A!))} \\ \texttt{XEB(DIA\&;C(E!\&'(1,A!))} \\ \texttt{XEB(E!\&;C(E!\&'(1,A!))} \\ \texttt{XEB(E!\&;C(E!\&;C(E!\&'(1,A!))} \\ \texttt{XEB(E!\&;C$

+(>!*(8!>C,.!%M&,8&;%!;:%CD!?:C,)H7!,%&DECEJ!

@:%!5D(JD%77!;:%CD!?:C,)!:&7! I &)%!D%J&D)CEJ!;:%!('Z%?;CM%7!(B!;:C7!8EC;!(B!7;8)*!-@:C7!%G5,&E&;C(E!7:(8,)!

\$(>%D!\$(CE;7! I &*!'%!7&M%)!&7!7%5&D&;%!BC,%7N!CB!E%?%77&D*!

T;8)%E;!>(DV!7&I5,%7!7:(8,)!'%!7?&EE%)!&E)!&))%)!;(!;:%!UEC;!\$,&E!_&7;%D!j(?8I%E;N!>:%E%M%D!5(77C',%9!! XB!;:%!7;8)%E;!>(DV!7&I5,%7!?&EE(;!'%!&))%)!;(!;:%!UEC;!\$,&E!_&7;%D!j(?8I%E;N!;:%*!7:(8,)!'%!7?&EE%)! &E)!?(I'CE%)!CE;(!(E%!\$j\!BC,%!

XB!!M&DC(87!5&D;7!(B!;:%!UEC;!\$,&E!?&EE(;!'%!7&M%)!CE;(!(E%!I&7;%D!)(?8I%E;\!):%E!&,,!5&D;7!(B!;:%!8EC;!5,&E!7:(8,)!'\%!7&M\)!&E)!?(E;&CE\)!CE!(E\\B(,)\D!B(D!78'IC77C(E!;(!;:\%!A\$F!_((),\%!5&J\%)!

!

D00%+6#/&G;&2%-``K.=,-7,3#'+&F7#6%-#+%*&

-XB! a 55,C?&',%!;(!\$D(JD&I/!

!

U7CEJ!*(8D!7?(D%7!&E)!B%%)'&?V!(E!;:%!W%7C)%E;!FM&,8&;C(E!XE7;D8 I %E;N!>DC;%!&!;>(2;:D%%!5&J%!E&DD&;CM%!)C7?877CEJ!*(8D!JD(>;:!&E)!)%M%,(5 I %E;!&7!&!;%&?:%D!;:87!B&D9! a))D%77!;:%!B(,,(>CEJ! j (I &CE7!BD(I !;:%! j &EC%,7(E!FM&,8&;CM%!@((,!CE!*(8D!E&DD&;CM%!)

- j (I &CE!P<!\$,&EECEJ!&E)!\$D%5&D&;C(E!
- j (I &CE!"<!@: %!Q,&77D((I !FEMCD(E I %E;!
- j (I &CE!#<!XE7;D8?;C(E!
- j (I &CE!d<!\$D(B%77C(E&,!W%75(E7C'C,C;C%7!

XE?,8)%!&!)%7?DC5;C(E!(B!75%?CBC?!;%&?:CEJ!%G5%DC%E?%7!*(8!>(8,)!,CV%!;(!%G5%DC%E?%!)8DCEJ!;:%!7%?(E)!:&,B!(B!;:%!7% I %7;%D9!-P2'6<&@&<+&#(\$35*/!!

XE?,8)%!CE!*(8D!)C7?877C(E!;:%!&D%&7!*(8!'%,C%M%!&D%!*(8D!7;D%EJ;:7N!&7!>%,,!&7!;:(7%!*(8!'%,C%M%!;(!'%!&D%&7!;:&;!&D%!7;C,,!CE!E%%)!(B!B8D;:%D!)%M%,(5 I %E;9!

dh

```
!
                     D00\%+6\#/\&!;\&E'7\#^*\#,+,\&X\%0,)34\%+3\&''\&.67\$,3\#'+\&A\%^*'7)$\%*&
a ?&)% I C?!T;&E)&D)!&E)!mD&)%!L%M%,!FG5%?;&;C(E7!
FL a !m8C)% ' ((V7k
L(8070&E&! _ &;: &
L(8070&E&!L0;%D&?*&
F\&D,*!Q:C,):(()\&
FEJ,C7:!L%&DE%D!LC'D&D*&
@%&?:%D!T855(D;!@((,'(G!LC'D&D*&
T;8)%E;7!>C;:!jC7&'C,C;C%7&
p%DCB*!Q%D;CBC?&;%!(D!@%&?:CEJ!a8;:(DCO&;C(E&
Q&D%%D! a )M&E?% I %E;!A55(D;8EC;C%7&
Q(E;CE8CEJ!F)8?&;C(E!A55(D;8EC;C%7!B(D!F)8?&;(D7&
<u>%&78DCEJ!W%78,;7</u><! 1 2P''! a 77%77 I %E;7N!T?:((,!&E)!Q%E;%D!W%78,;7N!&E)!@((,7!;(!T855(D;! a 77%77 I %E;7\)
FM%D*!T;8)%E;!T8??%%)7! a?;!-FTT a/&
å
```

å

å

```
!
!"#$%&''&()*+$, --#*.)/#0$, 1#$%&1$2"&0#$1#0). #*20$("&$, 1#$)*$2"#$3-#/), '$4.5/, 2)&*675, '$8#12)%)/, 2)&*$91&+1, :!

D00%+6#/&2(.XK:;&Z7+$3#'+,-&?%9,=#'),-&,**%** 4 %+3\forall^*\name(n=1) \delta \delt
```

$\mathbf{D00\%} + 6 \# / \& 2 \ (\ .\ X \& B; \& 87)) \# \$7 - 74 \& ^{\land}, * \% 6 \& \mathbf{D} ** \% ** 4 \% + 3 \& 08 ^{\bullet} \mathbf{D} \% \& 0$

0:KQ&DXXK!G&8.AC5Z58DC5!GW&

!

!

! @%&?:%D!W%7C)%E;!ssssssssssssssssssssssssss ! ! _.@&!!!! !!!!!!*K2B3*.+*1#&*(! ! !

!!

0:KQ&DXXK!G&8.AC5Z58DC5!GW&

!

XE)CMC)8&,!F)8?&;C(E!\$,&E!-XF\$/!w!a77C7;!CE!;:%!)%M%,(5 I %E;!(B!&E!XF\$!CE?,8)CEJ!&;;%E)CEJ!;:%! I %%;CEJ! &E)!)%M%,(5CEJ!J(&,79!@:%7%!&?;CMC;C%7!&D%!;(!'%!?(I5,%;%)!CE!?(EZ8E?;C(E!>C;:!;:%!D%J8,&D!%)8?&;C(E!;%&?:%DN!;:%!75%?C&,!%)8?&;C(E!;%&?:%DN!&E)!;:%!5&D%E;7=J8&D)C&E79!

a?;CMC;*!	S%7!	e (!	Q(II%E;7!
@%E2)&*!E(;C?%!?(I5,%;%)!r!7%E;!	!	!	!
j %M%,(5CEJ!;:%!XF\$-7%%u!'%,(>/!	!	!	!
u j %M%,(5! J%E%D&,! 7;8)%E;! CEB(D I &;C(E! 7%?;C(E!	!	!	!
uj%M%,(5!CE7;D8?;C(E&,!5,&E!-J(&,7!r!('Z%?;CM%7/!	!	!	!
uj%M%,(5!&??(II()&;C(E7!!	!	!	!

.