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<sup>BD</sup> ;"5%\$ BBNBDL\_Lm. 96, \$ 4(=95 &9&'%/1/%\$ ;%\$ ,6 ?& &'5 49 \$\$\$)C  
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<sup>B@</sup> 3"\$) H "6 ,6 &" .& ,6 ? \$ H(\$, \$ MBNBNLLO DKN\_@P2 5- BBC DLB\_RM  
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<sup>BU</sup> 181. 9M4(=M &M., " ?"5&\$ CLBM

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**HE K AD 46**

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) \$ & \$ 9 55 "\$&&- " 3 (-: 4& (- 3(- 8 4C3\$, 9" 3", 39" &  
\$("/ , (%9""9%1&\$ 5, /3 \$: C \$ " 5- 5&' =: 3" %' 9 5Y  
, 6 3 , 5&' /" % "%& "\$% " , 3& \$ \$ 5\$5391& %6"&  
5(9& "M2, ", " C , ) \$ & \$ 9 55 "\$&& %&5 3&5 ""\$&&1&  
%=& \$& 9 9, %%, 6 96"C 3 , 3" & C \$ "\$ \$/"\$&&%" "d( " 5, /39" I  
, ) \$ & \$ 9 5- \$)"%\$ , " & , & /" \$ && @M

[- "\$ &" ST?H \$" %& ) &' %&" 5 (%%, 6 %&& , "% \$, & & 5 99:  
%)/"\$& &" 5, \$ (5&C 3" %\$ \$"9C , 5, 3, && 5&9& \$&=( &' & &" \$5 "\$&C 6,  
"I /39"

\$ && "3, & , \$ &" DLLK 5, 99%\$ , 6 &1, [, \$/2\$)&, 3, 9& \$ E "  
T \$%& E( &, & & \$%" J, & T, &&' \$ %&[&% \$) & \$C ; . C &"  
ST?H %& &' & & a&" 55 "\$& \$, & "%&& 6 5& \$%, 6 \$ \$ ( 9  
=( & 6 , / &" r 55(/ (9 & \$ , 6 9 &' \$& 5, \$ & \$%&1& / \$&' \$ 5"C  
/ \$ )" 9 \$ , ) \$ & \$ 9 %&- " "%0 / Y\$) & I \$/39" , 6  
rd(\$&' %&' \$& 9 , ) \$ & \$ 9 55 "\$&&0b T-") , -5T \$%& E( &, & & \$  
" 9/"\$& \$ DLLUC 1-5- 5 (% \$f( "%& BAD9" \$ , " cB / 99, \$  
\$ / )" %C % \$, &" 5 %' %& : \$ , ) \$ & \$ 5 9'\$&&M? / 9 9: C &"  
H4 T'I % . & G'6\$" : , ) \$ & \$ 9 55 "\$& ELD Y9" BA 3", 39"C  
\$f( " B]L , &" %C \$ 5 (% 6\$ \$5 9 9, %&' %)" IEMA =99, \$M

S"&" 6" " 9 \$, %& &' 9 1C \$, ., // % \$ , \$ %& ) "\$" 9 , " %C \$,  
(" 3 , 5""%3 , &' 5& \$% "d( " &" ., // % \$ & : \$ 47 80% 5, \$ (5& \$ &"

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@ ST?H G'3, & & BCOM  
@ ST?H G'3, & & BCOM  
@ ST?H G'3, & & BCOM

&5 99: %)/"\$&' \$ 5,/3 &"\$&9 " / \$8& &&" (&9& ,5 &'M T-"  
.,//%\$ - % /39" (&, & & \$%&' " 9(4& 80%5,\$ (5& \$ &" "I&'\$&&  
1-5- & /,(\$&& ,9 & \$ & ,()- &" %\$%0&9 " =: &" ST?HC 1-5-  
5,\$%" " &" 1-,9" ,6 47 80%\$ 33 ,3 &' 5,& &5 =" ) " &' & \$ &" %/ ,6 &%  
3 &M \$ &" ST?H0%"1C a&" ? \$ H(\$, 33("9&" " 1 % \$ , ) \$ &\$ 9  
55 "\$&Cb ="5 (% aq / (9&& " ,6 "65"\$&, 3"\$ 9&3 ,5" ( "% \$ / \$ )/"\$&  
5,\$&,9%9" & - ,(%5 5(/%&\$5"%3" \$8&8), 1\$) , " &" (\$&9 &"  
33"9\$" (3& " ,55( "M

S,="9 4" 5" 4 " [\$\$\$) 4-:%&C Gf- 4MJ\$/: \$0% "%5 3&\$ ,6  
SE?E0%69 1%\$ &" E33"\$ I & &" G)" %.,//%G'3, & "9" %' \$ &" 1 Y" ,6  
&" ?3 5" ?-(&&9" 8 . 55 "\$&% " % % % /=" 3 99"9 & &"5"%6&"\$&  
47 8 99,1" & 3" %&&," &" 5,( %' ,6 / \$:"%5

[ " - " 9% 6,(\$ & &5" &5 &\$ 5 &' \$%19)-& G' "\$%  
G'"1%,6&"\$ ; 0 & 8. ;3 ; 4. - 8 (M/ ( .83 ( ( )  
( ) .- O J & J & J-( )&(- 3. - 44&:( ;  
.83 ( & ( ) ( & 44 :(- 8 -(M)5 (% ,6 &0- &  
J O . 44 :( ; 8 - ; C8%/ "&"%1&,( & %665"\$&9:  
% ,(% &&/3&& "/" : &"/C , & "9 &="59)% ,6 &" 5,\$&(" )  
3 "%5"5"5

47 80%)/"\$&' C 5,/3 &"\$&9 " \$ 9:%%,65,8%(5&\$,&,\$9: 6 59&&"%  
&" (&&0%&& &'): 6, /\$/ \$) 3"\$ 9&'%6\$\$%\$ &%3 ,5"" \$)C &"  
.,//%\$ %, (9 9% =" 1 " & &%5- \$ 33 9% / Y"%&" %' 6, &"  
(&9& & 99,1 %5- 5,/3 &"\$&9 " "65%\$&' ",55( \$ &" 6(& "M [-" "  
"6"5&%5 \$ =" " (5" & % 99 %)/"\$&& Y& %'9/ &9 \$5 "\$&C &,%' %/"  
a,=(%1" Y\$"%%%"b " " %' & 55"3& ) \$ )\$\$ ), \$) 6, 1 M

④ ST?H G'3, & & BCOM  
④ G'3, &, 6 &" 4 "% "\$&9 .,//%\$ , \$ &" ?3-1&&9" .- 99"\$) " E55 "\$&C E33"\$ 1 JC  
4" %\$ 9 =" & \$%, \$ G'9 =9& ,6 ?-(&&8" PQC BK]URM

. ?4; C \$ "9 \$5" , \$ &%, 1\$ "\$%& ) & " 3, & & " 1, Y, 6 & " ST?H \$  
 & " G4C - %5, \$59(%9: "%& =9%" \$(/ " , (%4798&\$%, 6 6" " 9 \$ %& & ' 9 1  
 \$ \$ (%& : %& \$ %\$ & " F\$" B\_D "\$%& & , 5"" \$)M E %// : , 6 & "  
 , 9 & \$%\$ " 5- F\$" B\_D "\$%& & : 4 , 5"" )\$%%& 6, & ="<sup>9</sup>, 1

HE K AD & 9 T AE2 A 6 AA 2 64 )) 5) VSUV 7<sup>V</sup>

	, 9 & \$ P3. (- & R	E3395 =9" . , "C ?& \$
	47 8 , 9 & \$% "9 & & 6 = 5 & \$ \$ 5, \$& \$ (5?)" / "\$& B] LC FS" B_DM	
B	47 8 6 9" & 5, \$%& (5& %)/ "\$& B] L , 6 F\$" B_DM4(=M & M. , " e @AB %6"9: <sup>N</sup> RST ; <sup>LN</sup> VUM .R <sup>D</sup>	
D	47 8 \$%& 99" 33" & & \$, & / ""& \$ (%& : . 9M4(=M & M. , " e @AB %& \$ % <sup>M</sup> RST ; VUM R <sup>A</sup>	
-	47 8 \$%& 99" %5& \$%, 6 33" & & 1" " \$, & % 9M4(=M & M. , " e @AB 6, , 3" & \$ 9 5, \$ & \$ <sup>N</sup> RST ; VUM R <sup>A</sup> E?28 H_BMB] NEKAA Pe] BLMBR	
@	47 8 6 9" & 5, \$ (5& - : , %& & <sup>AA</sup> & %& M . 9M4(=M & M. , " e @AB <sup>P</sup> RST ; VUM R E?28 H_BMB] NEKAA Pe] BMB] DP5RR	
A	47 8 6 9" & % 99: %& "5& 33" %)/ "\$& %=: . 9M4(=M & M. , " e @AB 6 9\$) & % 99: %& "5& %)/ "\$& % <sup>P</sup> RST ; VUM R E?28 H_BMB] NEKAA Pe] BMDOPER	
U	47 8 \$%& 99" a3(3% , \$ & % 33" 9\$) & & 1%" . 9M4(=M & M. , " e @AB & \$ 6" 6"" & 9, \$) <sup>N</sup> RST ; VUM R E4 AFs Pe R	
O	47 8 \$%& 99" 33" %)/ "\$& %& & \$, & / ""& .& 9M4(=M & M. , " e @AB 33 , 3 & / \$/ (/ : "9 %& "\$) & <sup>A</sup>	

@ ?(// "% ""9, 3" = % , \$ 3"\$) H "6%, 6 .4?& & " G, & . (% P MBNLDNLLORC  
 G'5, Y"3\$) P MBNLDNLR \$ & " V.E BBNBMLKR \$ " , \$9: \$&' \$ " & 3 , " )"\$" 9  
 & " & "\$& , 6 & " %& : , 6 , 9 & \$% ) 7 \$%& 99)" C \$ " \$, & \$&' \$ " \$ \$: 1 : & & "  
 %&, 3"C ( & \$ , %& =%& \$5" , 6 , 9 & \$% "% 99")4?; M

<sup>AL</sup> AA 9%& , 9 & \$%"d( 9 & , (%\$ % , 6 , 9 & '\$%& - , 9 & \$ %\$, & = , Y"\$ , (& = : Rm %"  
 .4?; 3"\$) H "6 E33"\$ I .

<sup>AB</sup> E99 a ( & \$b : % \$ : " %\$, & %& / / =" ?" BKAU %& & & \$ ?"3& / =" BLC  
 DLBL "\$ & (\$9"%%, & " 1% \$, & M

<sup>AD</sup> .4?; NBC 3M\_C 3MBUDC 33MBAND

<sup>A</sup> .4?; NBC 3M\_C 3MBUDC 33MBAND\_M

<sup>AG</sup> .4?; NBC 3M\_C 3MBUDC 33MBAND\_M

<sup>AA</sup> .4?; NBC 3MBK, " DL , & " "6" "\$5"% & (& & 6- : , N&' %& \$ .4?; NBM.4?; NKC 33M\_\_N

-@M

<sup>AU</sup> .4?; NBC 3M @ 3MBUDC 3MBKM. 4?; NKC 3MKUM

<sup>AO</sup> .4?; NBC 3M DDC 3MBUDM. 4?; NKC 3MK @M

	, 9 & \$ PP3. (-&R	E3395 =9" ., "C ?& \$
	PNQ RST ; VUM R	E?28 H_BMBJ NBKAA Pe] LAMA@R
J	47 8 / 3 , 3" 9: %8) \$ " : "9 %& "\$) & =, ". 9M4(=M &9M., " e @AB D@CLL 3%& %) / "\$&, 6 (\$YS, 1\$ : "9 %& "\$) & =, ". 9M4(=M &9M., " e @AB	E?28 H_BMBJ NBKAA Pe] BEMDOP7RR
K	47 8 (% "65"\$& 1"9 %, \$ &% 33"9\$ <sup>H</sup> M PNQ RST ; VUM R	. 9M4(=M &9M., " e @AB E?28 H_BMBJ NBKAA Pe] BEMDOP8RR
BL	47 8 (% "65"\$& 1"9 %, \$ &% 33"9\$ <sup>H</sup> M PNQ RST ; VUM R	. 9M4(=M &9M., " e @AB ?"5& \$ BMD , 6 E4 ?& \$ BBL@P@& 8 BKALR
BB	47 8 (% \$5, / 39" & 1"9 % \$ 6 9" & / " % '9M4(=M &9M., " e @AB 1 99 & 5YS"%%, \$ &% 33"9\$ <sup>H</sup> M	E?28 H_BMBJ NBKAA Pe] BEMDOP. RR
BD	47 8 \$, & \$5, 3, & & " a3(3% \$& &% . 9M4(=M &9M., " e @AB 5 95(9 & \$ , 6 & " "%) \$ 3 "%8( " \$ 2E 4 6, &% 33"9\$ <sup>H</sup> M	PNQ RST ; VUM R
B_	47 8 6 9" & / "" & 2E 4 " & / \$ & \$ "d( "/" \$&% = "5 (% , 6 &% \$5, / 39" & YS, 19" ) "M <sup>P</sup> PNQ RST ; VUM R	. 9M4(=M &9M., " e @AB E?28 H_BMBJ NBKAA Pe] @AMDR
B@	47 8 6 9" & %8) \$ " : "9 %& "\$) & , 6 D@CLL@K 3 JG BKDMBLOP=RPDR & &% 33"9\$ <sup>H</sup> 1-"\$ & " %& "\$) & 1 % (\$YS, 1\$M PMM WTS ; VM . S.R. <sup>A</sup>	
47 8 , 9 & \$% "9 & &% \$&) & 2 \$ )" / 4\$& / M		
BA	47 8 \$, & ) & " \$ \$&) & "d( " 33"9\$ <sup>H</sup> . JG BKDMKBCP=R & MPMV ; VW . & ( ) S.R. <sup>H</sup> ;	
BU	47 8 \$, & 5-"5Y 6, \$ " 6: & " 55( 5: @K . JG BKD P\$5, 3, & \$) &% 33"9\$ <sup>H</sup> & MPM WTS ; VM . S.R. <sup>O</sup> ;	E?28 H_BMBJ? PeAMCRR
BO	47 8 \$, & \$ 9: " &% 33"9\$ <sup>H</sup> 6, & " / \$(6 5& " "6"5&, 6 1"9 "6"5&M BMMV ; VW . & ( ) S.R. <sup>H</sup> ;	@K . JG BKDMKBCP R P\$5, 3, & \$) E?28 H_BM]? PeDMRR

A] . 4?; NBC 3M OC 3MB\_C 33M BKNDLC 3M DDC 33M UNMUA?; NK 33M @NALM  
 AK . 4?; NBC 3M \_BC 3M BAC 3M BKM. 4?; NK 3M MBC 3M BLJ  
 U . 4?; NBC 3M\_B\_C 3M BKC 33M DLNDBC 3M BUDMBM@BNC@G 33M KANKUM  
 UB . 4?; NBC 3M\_B\_C 3M BKC 33M DLNDBC 3M BUDMBM@BNC@G 33M KANKUM  
 W . 4?; NBC 3M DBC 3M OC 3M BKC 3M ALC 3M LBC 3M U3M DONJ C 33M @BNC 33M KDKUM  
 U . 4?; NBC 33M DDND@C 3M\_C 3M BUDM. 4?; NK 3M BLUM  
 U@ . 4?; NBC 33M DDND@C 3M\_C 3M BUDM. 4?; NK 3M BLUM  
 UA , 9 & \$ %& & & ] gBKgOLm. 4?; NBC 3M \_BNC. 3M UBC 3M BLUC 3M BLJ] M  
 W , 9 & \$ %& & & BDbAgDLL\_m. 4?; NBC 33M UNM\_U. 4?; NK 3M ULC 3M UKC 3M OLC 3M ] AM  
 W , 9 & \$ %& & & L] gBKgBKOLm. 4?; NBC 3M DUC 3M AAM. 4?; NK 3M BLOC 3M BBLC 3M  
 BB@M U , 9 & \$ %& & & BDbAgDLL\_m. 4?; NBC 33M UNM\_U. 4?; NK 3M UN\_KM

	, 9 & \$ P3. (-&R	E3395 =9" ., "C ?& \$
BJ	47 8 6 9" & 5, \$%" ;?E[ 33" %3, &\$& 99: @K . JG BKDMKBP" RP_R %f"5&& / \$(6 5& \$) "6"5&M BSMN; VW . & () SW;	
BK	47 8 \$, & 5, \$%" %&% %&5 &' 1& @K . JG BKDMKBP" RC \$ , 3" &\$) =, " 2 4 , 6 &" 9 %&6" : " %M BKDMKBP" RP_RPR BSMU; VW . & () RL;	
DL	47 8 \$, & 5, \$%" 33"9\$" %Y (\$&=9" \$ @K . JG BKDMKBP" RP_RPR 3 , &" %&%&"\$&, 6 %&% 6&' , 3" &\$) =, 2 4 , 6 &" 9 %&6" : " %M BSMU; VW . & () RB;	
DB	47 8 \$, & 5, \$%" , &'&6, 5: 595 6 \$& (" @K . JG BKDMKBP" RPDR &%33"9\$"MSMN; VW . & () SW ; R <sup>D</sup>	
DD	47 8 \$, & (% \$ %&"5&\$ / "&, 5 3 =9" , @K . JG BKDMKBP R "\$&6: \$) % / %&("M BSMN; VW . & () SW;	
D_	47 8 6 9" & 3 , 3" 9: %&"5&, &'&& 33"9\$". JG BKDMKBP" RP@ 6&' "15"" \$) 2 4 , \$ 8Q 33" BSMU; VW . & () R <sup>@</sup> ;	
D@	47 8 \$, & "\$&6: 1-" " \$ -, 1 @K . JG BKD P\$5, 3, &\$) (\$&=0&\$&&' 33"9\$" & 1 %(% \$ & " &E?28 H_BM]? Pe@MRR "\$&65 & \$ PSMN; VW . & () SW ; R <sup>A</sup>	
DA	47 8 \$, & PBR 5, \$%" "\$&6" & " &%\$ @K . JG BKDMKBP5R %&%&"\$&m PDR 5, \$%" 3 %&" "\$&%, \$ F\$" B_P\$5, 3, &\$) E?28 \$ P_R 55, (\$&6, /%&\$)gd("%&\$ =9" & H_BM]? PeAMRR 6SMN; VW . & () SW;	
DU	47 80% %Y 9), &/% \$, & PBR 3 , 3" 9: 1"@K . JG BKDMKBP5R & " &% Y\$, 1 , 3" &\$) "I3" "\$5"m PDR "\$&6P\$5, 3, &\$) E?28 &" 3 , 3" 3, &'&& 9 / 3 5& (%m P_R "\$&6: H_BM]? PeARR 3 , 3" ., %&d("\$5"% , 6 J 9( " 6, / (9 m P@R (% 5, \$%" &' 9("%6, "9"5& 5 9 \$&' 6" "\$R"m PA 5, \$%" , "\$N5 99 &Y" &m \$ PUR 5, \$%" 5 -%& 3 , =9"/% 1& 33" & 3" 6SMN; VW . & () SW;	

UK , 9 & \$ %& & &' BDgBAgDLL\_m.4?; NBC 33MBNINBC 33M@UNCC 3MBU\_M.4?; N KC 3M\_UM  
 AL , 9 & \$ %& & &' BDgBBgDLL\_m.4?; NBC 33M@UNCK 33M\_UN]M  
 OB , 9 & \$ %& & &' BDgBBgDLL\_m.4?; NBC 33M@UNCK 33M\_UN]M  
 OD , 9 & \$ %& & &' BDgBAgDLL\_m.4?; NBC 33M@UNCC 3MDUC 3MD]C 3M\_UC 3MBU\_M.4?; NKC  
 3M\_]M  
 O , 9 & \$ %& & &' BDgBAgDLL\_m.4?; NBC 33MBNINOC 3M@C 33MAKNUBC 3MB\_@C 3MBU\_M  
 O@ , 9 & \$ %& & &' BDgBBgDLL\_m.4?; NKC 3M\_UM  
 OA , 9 & \$ %& & &' BDgBAgDLL\_m.4?; NBC 33MBNINBC 33M@UNCC 33M@UNCC 33M@UNCC 33M@UNCC 33M@UNCC  
 OU , 9 & \$ %& & &' BDgBAgDLL\_m.4?; NBC 33MBNINOC 33M@UNCC 33M@UNCC 33M@UNCC 33M@UNCC 33M@UNCC  
 BUDM

		, 9 & \$ PP3. (- &R	E3395 =9" ., "C ?& \$
DO	47 8	\$, & (% 5, \$% & 33"9\$" & 1-" ". 9M4(=M &9M., " e @AB & 1 %/%%\$)	E?28 H_BM]?C E33"\$ I E Pe@MR
D]	47 8	\$, & , 3" & %%%&/ %6"9: 1-"\$ &. 9M4(=M &9M., " e @AB "\$) )" \$ &" 3 5&5" , 6 3 "%( " %YS) "" : A :" %& , &"%\$) , \$%"5&\$)	
	47 8	, 9 & \$% "9 & & %?. E; E %%%/ \$ &3& %T" / \$ 9M	
DK	47 8	\$, & 6, 99, 1 \$&' \$ 9 1, Y 3 , 5" ( "% @K . JG BKDMB_P5R PV; 1L	
_L	47 8	\$, & 6, 99, 1 \$&' \$ 9 1, Y 3 , 5" ( "%& 9M4(=M &9M., " e @AB &" "I&'\$\$& 5 " &' \$ (%6" 5, \$ & \$1P	
_B	47 8	\$, & "%& =9% 3 , 5" ( "%6, =\$, / @K . JG BKDMLAP5R 5, \$ & \$%PV; 1D	
_D	47 8	\$, & & 3 , 3" 9: / \$&\$ &" 293& % . 9M4(=M &9M., " e @AB ?& & \$ .PSN; VR &() Q1-	
_	47 8	"%)" \$ ? . E; E %%%/ 1& &, / \$: . 9M4(=M &9M., " e @AB (\$"5"%% : 9 /%PSW; VU 1@	
	47 8	, 9 & \$% "9 & & 8/" )"\$5: G'%, \$%	
_@	47 8 6 9"	& 5 " &' \$ 6, 99, 1 "d( &' . 9M4(=M &9M., " e @AB "/" )"\$5: 39 \$%TRU; VN . NR^A	
_A	47 8	\$, & "%, \$ 3 , /3&9: , "66"5&'9: &@K . JG BKDMBAP RP_R &" FS" B_D 8I39, %\$ (" & \$5, \$%&'&\$& "/" )"\$5: 39 \$%TRU; VN . NR^U	
_U	47 8	\$, & "\$&' \$& /(& 9 %%%&\$5" @K . JG BKDMBAP RP]R ) ""/"\$& 1& 9, 5 9 6 %& "%, \$TRU%P VN . N ; R^O	

<sup>oo</sup> , 9 & \$ %& & &' BdgBAgDLL\_m . 4?; NBC 3M AAKARM  
<sup>o</sup> , 9 & \$ %& & &' BdgBAgDLL\_m . 4?; NBC 3M AANALC 3M A]C 3M BUDM  
. 4?; NKC 33M@  
<sup>ok</sup> , 9 & \$ %& & &' BdgBAgDLL\_m . 4?; NBC 3M @N@M . 4?; NKC 33M\_UN]M  
<sup>1L</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 3M @ 3M @N A33M BU\_M . 4?; NKC 33M KLNKBM  
<sup>1B</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 3M @ 3M @N A33M BU\_M . 4?; NKC 33M KLNKBM  
<sup>1D</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 3M @ 3M @N A33M BU\_M . 4?; NKC 33M KLNKBM  
<sup>1</sup> , 9 & \$ %&/" & - " %& &' DgBgDLBLm . 4?; NBC 3M @N A33M BU\_M . 4?; NKC 33M KLNKBM  
<sup>1@</sup> , 9 & \$ %&/" & - " %& &' KgBgDLLAm B?3M @ 33M CLNDC 33M O\_NO@ 3M KDC 3M KUC 3M  
K]C 3M KKM  
<sup>1A</sup> , 9 & \$ %& & &' ]g\_BgDLLKm . 4?; NBC 3M @N A33M BU\_M . 4?; NKC 33M KLNKBM  
<sup>1U</sup> , 9 & \$ %& & &' ]g\_BgDLLKm . 4?; NBC 3M @N A33M BU\_M . 4?; NKC 33M KLNKBM  
<sup>1o</sup> , 9 & \$ %& & &' ]g\_BgDLLKm . 4?; NBC 3M @N A33M BU\_M . 4?; NKC 33M KLNKBM  
. 4?; NKC 33M AANALC 3M BB@ PJS DDBRC 3M BBOM  
. 4?; NKC 33M AANALC 3M BB@ PJS DDBRC 3M BBOM  
. 4?; NKC 33M AANALC 3M BB@ PJS DDBRC 3M BBOM  
. 4?; NKC 33M AANALC 3M BB@ PJS DDBRC 3M BBOM  
49 \$ P8GARC 1-5- % -" \$) "1-=& . 4?; NDKOM2( @ E%%&\$5" E) ""/"\$& " %(%& , \$ JNDB , 6  
47 80% 8G4

	, 9 & \$ PP3. (-&R	E3395 =9" ., "C ?& \$
_O	47 8 \$, & - " 39 \$ 6, "\$) )\$) / (& 9 @K . JG BKDMBAP5RP@R %88& \$5" TRU; VN . NR <sup>1</sup>	
_]	47 80% 0, 1 \$ (\$5, , \$ & "%, \$% & & " @K . JG BKDMBAP RP_R F\$" B D 8I 39, % \$ 1 % \$" & " 3 , / 3 & \$, "66" 5& MP; ] <sup>K</sup>	
_K	47 8 6 9" & "d( &'9: "5""C "\$&: \$ @K . JG BKDMBAP RPBR 59 %86: "/" )"\$5: \$, & "MP <sup>KL</sup>	
@	47 8 \$, & 3 , " 6, 3 , 3" 3" % \$\$"9 \$ @K . JG BKDMBAP RP@R "%( 5"% & & " "/" )"\$5: % " \$" P <sup>B</sup>	
@B	47 8 \$, & 3" 6, / \$ "/" )"\$5: % (& , 1\$ & @K . JG BKDMBAP RPUR "d( &'9: / \$/ " - % & 96" \$ 3 , 3" & PV; ] <sup>KD</sup>	
@D	47 8 \$, & / Y" % 6" \$: 5& 9 , 3, &' \$ & @K . JG BKDMBAP RPCR - % & 96" \$ 3 , 3N & P <sup>F</sup>	
@	47 8 \$, & \$, & 6: 9, 5 9 6 % & "%, \$V"; % P <sup>KQ</sup> @K . JG BKDMBAP RP] R	
@@	47 8 \$, & - " \$ "/" )"\$5: / \$( 9 & & @K . JG BKDMLAP5RPBR \$ "d( " 33 , 3 &' 5& \$% PTRU; VN . NR <sup>KA</sup>	P_R
@A	47 8 \$, & "%& =9% \$ / \$ & \$ @K . JG BKDMBAP RPDR 5, / (\$5 & \$% 1& 9, 5 9 6 % & "%, \$ "N% P <sup>KU</sup>	
@U	47 8 \$, & 3 , &' 5& 3", 39" 6 % & & "\$ 3 , 3" @K . JG BKDMBAP RPAR PV; ] <sup>KO</sup>	
@D	47 8 \$, & "%& =9% \$ / \$ & \$ 9 % \$ 1& @K . JG BKDMBAP5RP@R 9, 5 9 6 % & "%, \$ TR% P VN . NR <sup>KI</sup>	
@	47 8 \$, & & \$ 3" % \$\$"9 & "5, )\$ " \$5 "\$ @K . JG BKDMBAP RP_R 3 , 3" 9: MP; ] <sup>KK</sup>	

<sup>11</sup> , 9 & \$ % & & ' ]g\_BgDLLKm . 4?; NBC 33M BB@C 33M BBONBB] m . 4?; NKC 33M AANAUm . 4?; NBLC 33M OAC . 4?; 3 , 3, (\$ " ; GF") 9 ; % \$ LIENhL] & , = & \$ 47 80% 8/ " )"\$5: G'%, \$% 49 \$ P8GARC 1-5- % - " \$) "1-=& . 4?; NDKOM2( & E%8& \$5" E) "" / "\$% " % (%% , \$ JNDMB , 6 47 80% 8G4M  
<sup>1K</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BLDNBB@C 33M BBON BB] m . 4?; NKC 33M AAN AUC 33M KONBL  
<sup>KL</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BBANBB@C 33M BBON BB] m . 4?; NKC 33M AANAUC 33M K] NBLDm . 4?; NBLC 33M OAC 33M O  
<sup>KB</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BLDNBB@C 33M AANAUC 33M KKM  
<sup>KD</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BL\_C BBONBBDDm . 4?; NKC 33M KKC BLBNBLDM  
<sup>K</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BBONBB@C 33M BBON BB] m . 4?; NKC 33M AAN AUC 33M KKC 33M BLBN BLDM  
<sup>K@</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BB@C 33M BBON BB] m . 4?; NKC 33M AANAUC 33M BLNBLDM  
<sup>KA</sup> , 9 & \$ % & &' ]g\_BgDLLKm . 4?; NBC 33M BB@C 33M BBON BB] m . 4?; NKC 33M AAN AUC 33M KKNBLM  
<sup>KJ</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BB] NBBKNC 33M BLLM  
<sup>KO</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BB] NBBKNC 33M BLLM  
<sup>KI</sup> , 9 & \$ % & &' ]g\_BgDLLKm . 4?; NBC 33M BB@C 33M BBON BB] m . 4?; NKC 33M BLLM  
<sup>KK</sup> , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BLDNBB@C 33M BBON BB] m . 4?; NBLC 33M B@M . 4?; NKC 33M DEC 33M K] N KKM



	, 9 & \$ PP3. (-&R	E3395 =9" ., "C ?& \$
@K	47 8 \$, & & \$ 3" %\$\$"9 3 , 3" 9: , "\$% @K . JG BKDMUBAP=RPDR &": " Y\$, 19" )" =9" =, (& 3 , 5" N,"%MP	
AL	47 8 \$"" "& / \$" 6 &%& \$\$) % "66"5&W @K . JG BKDMUBAP=RP_R ; BLB	
AB	47 8 6 9" & ""1 &%/" )"\$5: "%&, \$% @K . JG BKDMLAP5RP@R 3" , 5 99: MP; BLD	
AD	47 8 \$, & 3 , 3" 9: " (5 & &" 3(=95 \$ 9@S . JG BKDMUBUP R , 665 9%MP; BL_	
A_	47 8 \$, & 3" 6, / 95, -, 9 &%&\$ &"9: @K . JG BKKMDAP R / \$\$" \$ 6 9" & "5, &" " %,\$%6, 9 5Y , 6 5, / 39 \$5"MP; BL@	
A@	47 8 \$, & 3" 6, / () \$ 95, -, 9 &%&, @K . JG BKKMDAP R \$ @K 7 %., \$&, 9 %& 66MP <sup>BLA</sup> . JG BKKMUBAP=R	
	47 8 , 9 & \$ "9 & &%? 6"& . (9& "	
AA	47 8 6 9" & 39 5" %6"& , " 3 , 6&%=: PBR9M4(=M &M., " e @AB " (5\$) %6"& N "9 & =( )"&m PDR %&"\$ \$) 9"%% & \$ (&, " , \$ %6"& m P_R 3 "/ & "9: %\$ \$) & & \$%&%\$ 33"9\$" "39 5"/"\$& 39 \$m P@R \$, & %""Y\$) %665"\$& 2 6(\$ %m PAR (%\$) 9"%% "66"5&' \$ 5-" 3" 2 &, 9% m PUR " (5\$)N%6"& "9 &' 3" %\$\$"9C 1-9" &&" %/" &" (%\$) "&\$" " \$\$)%& 3 : "\$ %C "3( 5- %\$) %& 5YC 3 , \$) =, \$(%&C "I3"\$ \$) 6(\$ %, \$ 3(=95 "9 &\$% \$ = 99, &\$& &'%M PMWU; V NS . & () R@;	

HE K AD & 9 T AE2 A 6 4GA Y44B 3 )) 5)USUV 7<sup>V</sup>

	, 9 & \$ PP3. (-&R	E3395 =9" ., "C ?& \$
B	? 9 )" 43" G'5, %M47 8 6 9" & 5 " &' \$ 9M4(=M &M., " e @ABm / \$& \$ 55( &'C 5, / 39"&'C \$ 55"%%&=9" "5, 9& \$ 4(=95 &9&'%	

HL , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BLDNBB@C 3M BD\_m . 4?; NBLC 33M B@BAM . 4?; NK 3M DBC 33M KJ NKKM  
 HLB , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BLDNBB@C 3M BD\_m . 4?; NK 3M DBC 33M KJ NKKM  
 HLD , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BLDNBB@C 3M BD\_m . 4?; NK 3M DBC 33M KJ NKKM  
 BL\_ , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M BD\_NBD@NC433M AONAKC 3M OCC 3M BBAM  
 BL@ , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M KKNBLBMY@4 33M DBNDDC 33M BL@BLAM  
 BLA , 9 & \$ &' KgKgDLBLm . 4?; NBC 33M KKNBLBMY@4 33M DBNDDC 33M BL@BLAM  
 BLU , 9 & \$ %& & &' BgBgBKKj m . 4?; NBC 3M N@C . 4?; 3&' sC 33M BDUNBUBM . 4?; NBUj C  
 3 %&M  
 BLO \_A 9&' , 9 & \$% "d( 9 &, (% \$ %, 6 , 9 &, \$%, 9 & \$ \$59( "% 33 , / &'9: D\_COLL /%&\$) %&"\$)& &'& 3 "%& " "5, %C \$ , %&,\$&\$" \$59( "% 33 , / &'9: DCALL %&/" ?2W 9( "%, 6 -) -" & \$ D@LLL 4? Rm %" . 4?; "B@ 3=%&

	, 9 & \$ PP3. (- &R	E3395 =9" ., "C ?& \$
	, 6 33" %9 )" 6 ,/ &%& \$%&%\$ %&%/ \$ E5&C E &59" C %5& \$ B	P=R
	"(% \$ FS" B_DMP (- 3- 8 0- & R&	
D	., \$%& (5& \$ G'5, %6, BKAU 4 , f"5& 72 B_U@BML4(=M &9M., " e @ABM	
	47 8 6 9" & Y"3 5, /39" &' \$ 55( &'	
	5, \$%& (5& \$ "5, %6, &" 3 , f"5& 72 B_U@BC &"	
	3 , f"5& & & \$%& 99" ?") / "\$& B L \$ BKAUC	
	"39 5\$) 3 & , 6 FS" B_D & & - =""\$ \$%& 99"	
	\$ BK@MMPQ (& : ( . Q S R <sup>BLK</sup>	
-	4 "%& " T"%& G'5, %M47 8 \$, & "& \$ . 9M4(=M &9M., " e @ABM	
	3 "%& " &'& "5, %6, ?") / "\$& B L , 6 FS". B_D \$ 4(=95 &9&'%	
	6, &" 96" , 6 &" 6 59&MPE S R <sup>BBL</sup>	E5&C E &59" C %5& \$ B P=R
@	\$ " 9: \$) G'5, %G'9 & & 2 I/(/ . 9M4(=M &9M., " e @AB	
	E99, 1 =9" 3" &\$) 4 "%& " 6, ?") / "\$& B LM	
	47 80%43"9\$) ?( " : ?-""&C 7 ? \$ 665 9	
	2E 4 9%& 6, 33"9\$"%C 5 99" ; 1\$)	
	L U U CBB C "d( " _KL 3%2E 4 6, &" 3 &	
	, 6 FS" B_D & & \$59( " ?") / "\$& B MP(&	
	S R <sup>BBB</sup>	
A	.9" \$5" 4 , 5" ( "%M47 8 3" %\$\$"9 \$, &. 9M4(=M &9M., " e @ABM	
	- " 1 &&' \$ %d("\$5" , 6 %&'3%& =" (\$ " & Y"\$6\$ \$ 4(=95 &9&'%	
	&" / \$&' \$ \$5" 3 , 5" ( "MP . N S N E5&C E &59" C %5& \$ B	P=R
	: ( . Q S R <sup>BBB</sup>	
U	3" & \$% \$ 2 \$&' \$ \$5" \$%& (5& \$%MT-" . 9M4(=M &9M., " e @ABM	
	3" &\$) \$ 2 \$&' \$ \$5" \$%& (5& \$%/ \$( 9 @K . JG BKDMBA	
	&" 293& %T' / \$ 9 1 % , (& , 6 &'MP .	
	NQO : ( . S R <sup>BBL</sup>	
O	; 1\$) \$ ? . E; E ; ) / % , 6 &" 293& % . 9M4(=M &9M., " e @AB	
	T' / \$ 9M47 8 3" %\$\$"9 & &" 293& %T' / \$ 9	
	, \$9: - 55"%&& \$ , (& &' / 3 \$ 5, \$& , 9	
	, , / 3" %\$\$"9 - 55"%&& \$ \$5, /39" &'	
	) / , 6 &" 293& %T' / \$ 9MP S R <sup>BBL</sup> @	
] ]	H 5YN 3 ? , 6&1 " & 293& %T' / \$ 9M47 8 . 9M4(=M &9M., " e @AB	
	5, \$ (5&' "9"5& 5 9 1, Y & &" 293& %T' / \$ 9	
	1& , (& 33 , 3 &' = 5YN 3 %6&1 " 9 =9" 6,	

BLJ	3"\$\$) H "6 , 6 .4?; \$ G'5, Y"3\$)	& D@B- DAC DLB_RM
BLK	3"\$\$) H "6 , 6 .4?; \$ G'5, Y"3\$)	& 2 B- DAC DLB_RM
BBL	3"\$\$) H "6 , 6 .4?; \$ G'5, Y"3\$)	& 2  B- DAC DLB_RM
BBB	3"\$\$) H "6 , 6 .4?; \$ G'5, Y"3\$)	& @ B- DAC DLB_RM
BBB	3"\$\$) H "6 , 6 .4?; \$ G'5, Y"3\$)	& @ B- DAC DLB_RM
BBB	3"\$\$) H "6 , 6 .4?; \$ G'5, Y"3\$)	& @ B- DAC DLB_RM
BB	3"\$\$) H "6 , 6 .4?; \$ G'5, Y"3\$)	& @ B- DAC DLB_RM
BB@	3"\$\$) H "6 , 6 .4?; \$ G'5, Y"3\$)	& @ B- DAC DLB_RM

	, 9 & \$ PP3. (-&R	E3395 =9" ., "C ?& \$
	9" 5, \$&, 99" %, \$ FS" B_D %)/"\$& B] L P (& S N R <sup>BBA</sup>	
K	?(3" % : ., \$&, 9 \$ ; & E5d(%& \$ ?:%&'/ . 9M4(=M &9M., " e @AB Pa?. E; EbRM47 80%?. E; E \$, & 3, " & 47 8 3" %\$\$"9 &" \$6, / & \$ "\$" " \$ &" 5, \$&, 9 , / \$ "9%1-" " & " 9 "66"5&'9: 1& &" FS" B_D 8I39, %\$ \$ \$, & 3, " 47 8 3" %\$\$"9 1& %665"\$& \$6, / & \$ & "&' /"\$ &" ="%& 5, ( %' , 6 "/" 9 5& \$ &S & Y'NMP S N R <sup>BBU</sup>	
BL	8/" )"\$5: G'%, \$%' 49 \$M47 80%8/" )"\$5: . 9M4(=M &9M., " e @ABm 49 \$ 6 9" & %33, & %6" \$ "665"\$& "%&K\$%G %'5& \$ BKDMBA & &" FS" B_D 8I39, %SC 1-5- 5, \$&=(&' & 9, \$)" & \$ "\$5"%% : "%, \$%'MBS N (& :( . S N R <sup>BPO</sup>	
BB	\$5 "\$&%, 6 3" &S) FS" B_D \$ "I5"%%, 6_KL 9M4(=M &9M., " e @ABm 2E 4M47 8 , 3" &' FS" B_D \$ "I5"%%, 6_KL 7 BBD 3%2E 4 , \$ &9" %&& "" , 55 %%%1&, (& 6, 99, 1\$) ") (9 & \$%& & "d( " -: , %& & 99: &'%&S)MP. 0-& (-& - S T S <sup>NV</sup> S N	
BD	4 "% & \$ , 6 G'5, %G'9 &' & H "\$&1, , ., //%%\$ G'9(%& \$ ./" ?I " , M47 8 "%&, : " "9" \$& S(/=" FN@m; MKNL] NDK " "\$5" 6&' &" ., //%%\$ "5&' & & 99 " "\$5" "9" \$& & &" ? \$ H (\$, \$5 "\$&=" " 3 "% " MP( . Q S N :. ( R <sup>BBK</sup>	
B	47 80%; & G'%, \$%'G') \$) H "\$&1, , ., //%%\$ G'9"% , 6 ./" ?I " , M47 8 3 , " .4?; \$ &" 4 5&5" \$ 4 , 5" ( " G'9" . , //%%\$ 1& & "%, \$%'%& & 1" " BMBM 5, \$& 5& : \$ /%9" \$)C \$ & &/3" " &" \$"%& & \$ , 6 /3, & \$& \$ "9" \$& %& ("%-& & 3 , 5"" \$)M&P&. :& G S N V :. ( ; ( " ; S N S :. ( R <sup>BTT</sup>	
B@	47 8 ; & G'%, \$%'G') \$) 4" %\$\$"9 & ., //%%\$ G'9(%& \$ 293&%T' / \$ 9 , \$ ?"3&'/"= " KC DLB 47 8 S(/=" FN@m; MKNL] NDK 6 9" & "\$&6: 99 3" %\$\$"9 6, 1-, / .4?; %()-& "\$&65 & \$ \$ / " &1, 6 9% , /%9" \$) %& &'/"\$&M&P& 0-& (-& G F4(& . N	

- |     |                                       |                    |
|-----|---------------------------------------|--------------------|
| BBA | 3"\$\$) H "6 , 6 .4?; \$ G'5, Y'"3\$) | & UB B- DAC DLB_RM |
| BBU | 3"\$\$) H "6 , 6 .4?; \$ G'5, Y'"3\$) | & U B- DAC DLB_RM  |
| BBO | 3"\$\$) H "6 , 6 .4?; \$ G'5, Y'"3\$) | & OU B- DAC DLB_RM |
| BBJ | 3"\$\$) H "6 , 6 .4?; \$ G'5, Y'"3\$) | & OL B- DAC DLB_RM |
| BBK | 3"\$\$) H "6 , 6 .4?; \$ G'5, Y'"3\$) | & O B- DAC DLB_RM  |
| BL  | 3"\$\$) H "6 , 6 .4?; \$ G'5, Y'"3\$) | & PL B- DAC DLB_RM |

	, 9 & \$ PP3. (-&R	E3395 =>" ., "C ?&\$
	S NV ; ( &, & - -& ; 4- -& P 4 . NR	
	S NV ; ( &, & - -& ; 4- -& &	
	( . (-0 - 4) 4 (.) &8) 3 . NU	
	S NSRM <sup>BB</sup>	
BA	k1& 1\$1	
BU	Q = J9"%M47 8 f, = 69"% " /%\$) , 5, \$&\$ . 9M4(=M &9M., " e @Afm	
	55, (\$&\$) \$6, / &\$ 1&, (&"%&\$& 9 E?28 H_BM)m 47 80%	
	"\$)\$"" \$) \$6, / &\$M P& (- 3- 8 0-& (-& . &&' \$ 9 3, 95"%M	
	NQ RR <sup>BD</sup>	
BO	43"9\$" V& : G'5, _%M 47 8 6 9" & " &\$. 9M4(=M &9M., " e @Afm	
	33"9\$" -%& : "5, %M P(- 3- 8 0-& (-& . &E?28 H_BM)m 47 80%	
	NQ R (& S NM <sup>BD</sup>	\$&' \$ 9 3, 95"%m 7 BBDNH
		& , (- 7 BBDN8
Bj	:"%\$ \$ 4 "%% " T'%& G'5, _%2%\$)M E?28 H_BM)m 7 BBDm @K	
	47 8 6 9" "&" & , &" "d( " %&"\$)%& &BKMAL C @K . JG	
	, & "&\$ &" %&"\$)& &'& "5, % \$ "BKMALAC \$ @K . JG	
	& , 6 &'& & & 5, \$ (M P&8)	BKMALOM
	S N RM <sup>BD</sup>	
BK	[ "9 2 3% \$ [ "9 \$%5&\$ G'5, _%M47 8 . 9M4(=M &9M., " e @Afm	
	6 9" & "&\$ 1"9 / 3% \$ 1"9 \$%5&\$ E?28 H_BM)m . 96, \$	
	"5, %M P(- 3& . & NOT (& SRV <sup>BD</sup>	4(=95 &9%'E5& E &59"
		%5&\$ B_P=Rm @K . JG
		BKMD@B \$ BKMD@m
		7"\$" 9 " % BBDC BBDEC
		\$ BBDH %5&\$ BLOm \$
		47 8 %&\$ 3 5&5"M
DL	3" &\$) 4 "%% " G'5, _%M47 8 \$, &5 " &' 9M4(=M &9M., " e @Afm	
	, / \$&\$ &" , 3" &\$) "5, % PBK_LN <sup>BD</sup> DLBRM. 96, \$ 4(=95 &9%'	
		E5& E &59" %5&\$ B_P=RC
		E?28 H_BM)C 7"\$" 9
		" % BBDC BBDEC \$ BBDH
		%5&\$ BLOC \$ 47 8
		\$&' \$ 9 3, 95"%M
DB	4 "NBKOL F" Y G'5, _%M47 80% "5, %, 6 . 9M4(=M &9M., " e @ABC	
	& \$%&\$ \$ 33" 9" Y%="6, " BKOL %\$ "d( &'M96, \$ 4(=95 &9%'	
	PBK_L & DLBRM <sup>BD</sup>	E5& E &59" %5&\$ B_C

<sup>BB</sup> 3"\$\$) H "6 , 6 . 4?; \$ G'5, Y"3\$) & P@B- DAC DLB\_RM  
<sup>BD</sup> 3"\$\$) H "6 , 6 . 4?; \$ G'5, Y"3\$) & PO B- DAC DLB\_RM  
<sup>BD</sup> 3"\$\$) H "6 , 6 . 4?; \$ G'5, Y"3\$) & BD B- DAC DLB\_RM  
<sup>BD@</sup> 3"\$\$) H "6 , 6 . 4?; \$ G'5, Y"3\$) & BB 5- DAC DLB\_RM  
<sup>BDA</sup> 3"\$\$) H "6 , 6 . 4?; \$ G'5, Y"3\$) & BK 5- DAC DLB\_RM  
<sup>BDU</sup> 3"\$\$) H "6 , 6 . 4?; \$ G'5, Y"3\$) & B@ 5- DAC DLB\_RM  
<sup>BDD</sup> 3"\$\$) H "6 , 6 . 4?; \$ G'5, Y"3\$) & B 5- DAC DLB\_RM

	, 9 & \$ P3. (-&R	E3395 =9" ., "C ?&\$
		E?28 H_BM]C 7"\$" 9 " %BBDC BBDEC \$ BBDH %5&\$ BLOM
DD	F" Y G'5, %6 ,/ BKOL J, 1 M47 8 - % \$. 9M4(=M &9M., " e @ABm \$5,/39"& \$ \$ 55"%8=9" %& ,6 3,%& BKOL 9"EX28 H_BM]C 47 8 "5, %MPBKOLNDBLRM	\$& \$ 9 3,95"%
D	G'5, %& T 5Y ? 9)" \$ G'(% 43"M47.89M4(=M &9M., " e @ABm 5,(9 \$,& "\$&6: &" 9,5 &\$C 5- 5& %85%4\$ 80%\$& \$ 9 3,95"%M %8"565 &\$%6, "(% 33" \$%& 99" ="6, C BKOL PBKA@NDBLRM	
D@	; & \$ 43"9\$" ?( " : ?-""&% \$ &" 7",) 3-5 9M4(=M &9M., " e @ABC \$6, / &\$ ?:%&/ Pa7 ?bRM /3, &\$& 33"9\$" \$ 47 80%\$& \$ 9 3,95"% & \$ 47 80%7 ? %" ,,\$,(% \$ \$5,/39"&C \$ /\$%"%6"&C \$59( \$) & "9 &" & 33 %8"565 &\$%C 33" / \$(6 5& " C "(% ,6 33"C 1"9 5- 5& %85 , % /9""88""8C 33" 9,5 &\$C 2E 4C 3,3(9 &\$%\$" &" 33"C \$ ,&" %PBKO@ & DLBRM	
DA	; & % \$ \$&) & 2 \$ )"/"\$& C/Y 2, "9M. 9M4(=M &9M., " e @AB 47 8 & \$ "5, % " \$5,/39"&C \$ 55( &C \$ \$ "d( &C / Y\$) 47 80%\$&) & / \$ )"/"\$&/, "9C \$ &" 5 & 9 3 , & &\$ ,6 33"9\$" %Y & &%&" 3 , (5&,6 &" /, "9 \$5,/39"&C \$ 55( &C \$ \$ "d( &MP S N R <sup>B</sup>	
DU	2%8\$) G'3, &6, BK] ["9 J 9( "M47 8 9,%& 9M4(=M &9M., " e @ABm &" "3, & ,5(/"\$88) "3 ,6 9" Y,\$ FS"4B_D ?&\$ 4 5&5" "%988) 6 ,/ / \$(6 5&(\$) "6"5&\$ &" 7"\$" 9 " BBDM 9,\$)& \$ 9 1"9 ,6 &" 33MMP (& S RM <sup>B</sup> D	
DO	2%8\$) G'3, &6, BKU ["9 J 9( "M47 8 6 9" 9M4(=M &9M., " e @ABm &" &\$ BKU_ 1"9 6 9( " "3, & PBKU_ & 47 8 ?&\$ 4 5&5" DLBR <sup>B</sup> - 7"\$" 9 " BBDM	
DJ	7"\$" 9 G'5, %2 \$ )"/"\$& ,9 &\$M 47 8 @K . JCC %5&\$ BKDMLK m 1 %/%88) %&"\$)& &'& "5, %m/%88) 1"9 . 9M4(=M &9M., " e @ABm "5, %m- \$5,/39"&C/%88) \$ (395 & f;=96, \$ 4(=95 &9&"% 69"%m/%88) 3" &8) 4 ""86 " G'5, %m/%88)G//%8\$ 7"\$" 9 " % BBDC BBDEC \$ BBDHC	

- <sup>BJ</sup> 3"\$) H "6 ,6 .4?; \$ G'5, Y""3\$) & BJB 5- DAC DLB\_RM
- <sup>BK</sup> 3"\$) H "6 ,6 .4?; \$ G'5, Y""3\$) & BD@ 5- DAC DLB\_RM
- <sup>BL</sup> 3"\$) H "6 ,6 .4?; \$ G'5, Y""3\$) & BL 5- DAC DLB\_RM
- <sup>BB</sup> 3"\$) H "6 ,6 .4?; \$ G'5, Y""3\$) & B2@ 5- DAC DLB\_RM
- <sup>BD</sup> 3"\$) H "6 ,6 .4?; \$ G'5, Y""3\$) & B2D 5- DAC DLB\_RM
- <sup>B</sup> 3"\$) H "6 ,6 .4?; \$ G'5, Y""3\$) & BCB 5- DAC DLB\_RM

, 9 & \$ P3. (- &R		E3395 =9" ., "C ?& \$
	<p>\$ 55( &amp;'C " , \$", (%C \$ \$5, /39" &amp;' 7 ? &amp; %5&amp; \$ BLOm \$ E?28  6 "d("\$&amp;9: 6 9" &amp; (% 5, \$%' &amp;' %&amp;/" 7 ?, " H_BM]M  9("m- \$5, /39" &amp;' 9" Y "5, %m/%&amp;\$) @K . JG %5&amp; \$ BKDMUBK5R  33"9\$ -%&amp; : 69"m/%&amp;\$) \$ \$5, /39" &amp;'  G'5, %&amp; &amp; ?-, 1 G'(% 43"m/%&amp;\$) \$  \$5, /39" &amp;' 2" &amp; 99( ) 5 9 G'3, &amp;'m \$ % =%&amp; \$  G'5, %2 \$ ) / "\$&amp; PBKAANDBL<sup>B@</sup></p>	
DK	<p>G'5, %G'&amp;'&amp;\$&amp;\$ , 9 &amp; \$M47 8 6 9" &amp; PF" Y ?( " : 2 3%R @K . JG  "&amp; \$ F" Y ?( " : 2 3%PE3 9 BUC DLBL &amp; %5&amp; \$ BKDMLKC \$ . 9M  ?"3&amp;'/" KC DLBLRm FS" 4 &amp; , 9 G'3, &amp;' 4(=M &amp;M., " e @AB  P?"3&amp;'/" BC BKU@(\$&amp; ?"3&amp;'/" KC DLBLRm FS"  \$%5&amp; \$ G'3, &amp;'PE3 9 U BKK@(\$&amp; ?"3&amp;'/" PF\$ 4 &amp; , 9 G'3, &amp;'R E?28  DLBLRm 4 "%&amp; " T"%&amp; G'5, %PE3 9 U BKK@(\$&amp; PBM]m @K . JG BKDMLKm  ?"3&amp;'/" DLBLRm T \$%&amp;\$ FS" \$%5&amp; \$ %5&amp; \$ BLO , 6 7"\$ 9  P?"3&amp;'/" BC BKU@(\$&amp; ?"3&amp;'/" DLBLRm J 9( " % BBDC BBDEC BBDHm \$  T, ., /39: [&amp; ?"565 G'5, G'&amp;'&amp;\$&amp;\$M 47 8 . 9M4(=M &amp;M., " e @AB  9% 6 9" &amp; , 6, 99, 1 , 1\$ "5, "&amp;'&amp;\$&amp;\$  "d( "/"\$&amp;' PBKAANDBL<sup>B@</sup></p> <p style="text-align: right;">PF\$ " \$%5&amp; \$ G'3, &amp;'R  E?28 H_BM]m @K . JG  %5&amp; \$ BKDMLKm \$ . 9M  4(=M &amp;M., " e @AB</p> <p style="text-align: right;">P4 "%&amp; " T"%&amp; G'5, %R  E?28 H_BM]m @K . JG  %5&amp; \$ BKDMLKm \$ . 9M  4(=M &amp;M., " e @AB</p> <p style="text-align: right;">PT \$%&amp;\$ FS"  \$%5&amp; \$R E?28 H_BM]m  @K . JCC %5&amp; \$ BKDMLKm  ., // %&amp;\$ 7"\$ 9 " %  BBDC BBDEC \$ BBDH %5&amp; \$  BLOm \$ . 9M4(=M &amp;M., " e @AB</p> <p style="text-align: right;">PJ 9( " &amp; , 5, /39: 1&amp;  %&amp;'565 "5, "&amp;'&amp;\$&amp;\$  "d( "/"\$&amp;'R @K . JG  BKDMB_P5RC . 9M4(=M &amp;M  ., " e @ABC 7"\$ 9 " %</p>	

<sup>B@</sup> 3"\$) H "6 , 6 . 4?: \$ G'5, Y"3\$)  
<sup>BA</sup> 3"\$) H "6 , 6 . 4?: \$ G'5, Y"3\$)

& BR2 5- DAC DLB\_RM  
& BR2 5- DAC DLB\_RM

	, 9 & \$ PP3. (- &R	E3395 =9" ., "C ?& \$
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<sup>BU</sup> 3"\$\$) H "6 , 6 .4?; \$ G'5, Y"3\$) & I2 5- DAC DLB\_RM

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4**

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," c@ /99, \$ \$ 3, 9& 9 5, \$&=( & \$<sup>B@</sup> \$ %8"\$& c@ /99, \$ , \$ &%4 , 3, %& \$ BU  
5 /3 )\$ & / \$& \$ &%3 9")" /, \$, 3, 9: M<sup>B@</sup> \$ & & %/" : " C 47 8 3 , 665" %  
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<sup>B@</sup> ]@.4 . D BAA & B]DC B]M  
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<sup>B@</sup>C: 1  
<sup>B@</sup> ; "5%\$ BBNBLLB & @M  
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a) "b , a%" " Mb

<sup>BA@</sup> 8 "\$& : V" \$) T \$% 3& P47 8gJ, \$"99R [ & & 9\$ "% DBND] & , ()- BU ] C 9\$ "% BNBKM  
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%))"%&\$) & &&" Y\$, 19")" \$ , /%\$ %%, %& &\$& " S T /3(&' & &"
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**Figure 10: Precedent Fines / Penalties<sup>34</sup>**

Event	Event Date	Total Penalties (\$MM)	Commentary
UGI Corporation Allentown, PA	February 9, 2011	\$0.4	Gas leak and explosion; loss of five lives and three serious injuries
Kleen Energy Plant Middletown, CT	February 7, 2010	16.0	Plant explosion during natural gas pipeline purging; loss of six lives and fifty injured
PG&E Corporation Rancho Cordova, CA	December 24, 2008	38.0	Natural gas leak and explosion; loss of one life and five injuries
Dominion Peoples Nat Gas Company Plum Borough, PA	March 5, 2008	0.1	Natural gas pipeline explosion; loss of one life and one serious injury
Public Service Enterprise Group Bergenfield, NJ	December 13, 2005	0.4	Pipeline rupture and explosion; loss of three lives and five people hospitalized
El Paso Corporation Carlsbad, NM	August 19, 2000	101.5	Natural gas pipeline rupture; loss of twelve lives
Olympic Pipeline Company Bellingham, WA	June 10, 1999	28.5	Pipeline rupture and ignition; loss of three lives

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<sup>34</sup> ; "%\$ BBNBLLB & @BN@DM  
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**& B4E 4 2D4 K I2 G4H & A3 2H 5L& & N7 1 62EEG4**

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T GS <sup>B</sup>D \$ ; GE<sup>B</sup>- \$ ( ) "%& " , 3& \$ =: & " ., // % \$M

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<sup>B</sup>L 8 "\$& : V" \$) T \$% 3& P47 8gJ, \$"99R M&B@C F\$" % D\_ND] & , (-) - 3MBA] AC F\$" %  
BN@PP2 5- AC DLB\_RM  
<sup>B</sup>B ST?H4EGNL\_gLB 4HDLL\_NKBUALB  
<sup>B</sup>D 3"\$\$) H "6 , 6 T GS \$ G, &. (% P MBDNLRL & UN] P MBDNLBNLORM  
<sup>B</sup>- 3"\$\$) H "6 , 6 ; GE \$ G, &. (% P MBDNLRL & KNBBM

T 1)

. . BBE QFE4 (432E 2 2

. 96, \$ 5, ( &- " 9, \$) -"9 & &" ., /\$0%3, 1" % " = , \$  
%, (9 =" 9=" 99: 5, \$%<sup>B1</sup> ("EM, \$)9: C &" F")%0 & " "\$ 5&' 4(=95 "%&9&  
. , " ?"5&\$ CLBC ) \$&\$) &" ., //%%\$ = , ( & & ; & (- C81-"&"  
%8"5 99: "%)\$ &' \$ k&" 4(=95 &9&"% B5& ; ; -(-& () . C 1&5- " 4 .

\$ 5, "\$"\$&\$ &" "I" 5% , 6 %5- 3, 1" \$% f&\$M<sup>B1A</sup> V, 1"" C \$:

&\$ 9 3, 1" %& &" ., //%%\$ "I" 5% "%a&(% 5,) \$ &' \$ )" / "\$ & &"  
")(9 &\$ , 6 3(=95 (&9&"% M<sup>B1</sup>MMb

T- " ., //%%\$0% %& &' /%%\$ %& % " a&="9& (\$&' "%&=: 3 , &'5&\$)

5, \$%/ " % \$ "\$% \$) &" 3 , %\$ , 6 "9 =9" (&9& %' 5" \$ \$6 %&(5& " &  
" %\$ =9" &'C 1& 5, //&"\$& & "\$ , \$/9\$88- \$5"/"\$& \$ -" 9&:

. 96, \$ "5, \$, /: b<sup>B1O</sup> P"/3- %& " RM /3, %&\$ , 6 "d(&=9" "%" ""9)" &  
\$5" 3(=95 %6"& , =f"5&'% \$ &"% F\$" B<sup>B1D</sup>9&) & : 4 , 5"" \$)% "5&9:

"%8%"&" ., //%%\$0%/%%\$M E% %5-C &'&="9" "/" "%? \$ H (\$,

, 5 &'%6, -" "\$ " a5,) \$ &' \$ )" / &"b.& //%%\$0% ") (9 &\$ , 6

(&9&'%M

2 A 4 46 6 12 14 AHH 66 A 6 2FE 6H 2E DA 2  
& B4E 4 2D4 K \$ 6

? \$ H (\$, "%8"5&6(99: "d("%&%& &" ., //%%\$-9% \$ \$ "3" "\$&

, 5 5: & (%&C &" a. 96, \$ 43"9\$" ? 6"&8F (\$ "5&47 8 & 3 , " \$

"\$ , 1/"\$& , 6 cA /99, \$ 3" : " & %33, & &5"5: , 1, Y, 6 &" . 96, \$

<sup>B1</sup>@2 4--4 A. 77, 01 23 -4 5(- (-& (, & B&, PDLLURC B@ . 9ME33M@  
OB] C O\_ U n& 3 . 7& 8 - ( 9& & &- 01 23 -4 5(- & /PBKCKR DA . 9M ] KBM  
<sup>B1A</sup>C 1 & O\_ UC 5&\$) & 3 . 7& 3: . DA . 9M K&ANKLUC "/3- %& " M  
<sup>B1U</sup>, & 3 . 7& 3: . BA . 9M & KLANKLUM  
<sup>B1O</sup> - &&3 gg111M3(5M M, g4 . g =, (& %g3(5/%%\$M&

43"9\$" ? 6"& T (%& 6, \$, 9"%%& \$ DL\$: 5, \$\$\$M& \$ 1& &% "%& =9%/"\$& , 6  
&" . 96, \$ 43"9\$" ? 6"& T (%&C &" ., //9% : 3 , " 6, 47 8 & %"Y  
5, \$&=(& \$ 6 , / , &" ") (9 &' 33"9\$" , 3"MH % /"/=" %6, &" . 96, \$  
43"9\$" ? 6"& T (%& % 99 =" \$, /\$ &' \$ %5\$\$" / %& /\$ / " 3, &'\$& 9  
5, \$695&%, 6 \$&' "%& 1& (&9&'% \$ &" .%/\$M

\$ &" 6&' / & , 6 &" 9:/35 43"9\$" T )"H:9\$\$)- / [ %\$)& \$ \$  
BKKKC &" MM; "3 &"\$& , 6 Q%&5" "5& & 9%/"\$& , 6 \$ "\$ , 1/"\$& & 6(\$  
&" S & \$ 9 43"9\$" ? 6"& T (%& P&" aS4?TbRM &%%, & &'(\$ "C &" S4?T - %-  
%55"%%\$ %\$) &" 3 , 69" , 6 \$ & ( 9 ) %& & & &" 6" " 9 9""9

4 , " 3(=95 \$&' "%& 3" %&"5&' , \$ \$ & 933"9\$" %6"& \$  
&'%&, \$: ="6, " ., \$) "%&C \$ &" /" C & 5,5\$6% \$\$ \$ (%& :  
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[, Y" 1& 9, 5 9 ), " \$/"\$& \$ 5&"\$ ) , (3%& " " (5 & \$  
\$ 5 3 5& =(9 \$) , \$ \$ & ( 9 ) %33"9\$" %& & %m

3" &'%&" 9 )" "%& \$ & ( 9 ) %33"9\$" %& & (&%" , 6  
4V2?Em

V'9 %"\$ \$ PCR \$ & \$ 9 33"9\$" %6"& 5, \$6" "\$\$"%m

? " " , \$ \$/" , (% % : 5, //&&'"% \$ 3 , " "I3" & &'%&, \$:  
5, \$5" \$\$) \$ & ( 9 ) %33"9\$" %6"& & & , 6="4V2&EC &"  
ST?HC \$ %& &' ") (9 & %M

FY" & \$ & \$ 9 3 " "5"%, C &" 3( 3, %' , 6 & "\$ . 43"9\$" ? 6"& T (%&  
%& "\$% " & & 1-"\$ \$ (%& : C ") (9 & :% ) \$"\$9")%& &' 5& \$ " \$ "d( &'C  
3(=95 %6"& \$ -" 9& 199 =" "3 "%\$&' "3"\$"\$&C 1"99N(\$ " C 5 " =9"  
33"9\$" %6"& , ) \$ & \$M 4 , 3" , " %)-& , &" /39/"\$& & \$C \$, & , \$9: , 6  
47 80%4?84C =( & &" , &" "d( & =9" "/" "%& %& , \$ /3, %%% \$ 5, \$\$"5& \$

<sup>[1]</sup> ., %\$& ; "5 "" ="&""\$ &" \$&' ?& &'%, 6 E/\$ 5?-"99 43"9\$" ., /3 \$: C F4 6Y  
8d(9, \$ 43"9\$" ., /3 \$: C FF. C . LDNB BQ]G PDL\_R

1& &" F\$" B\_D "\$%& & : 4 , 5"" \$)%%\$889M \$ & \$C . 96, \$

43"9\$" ? 6"& T (%& 199

8\$% " & &. 96, \$ 5& "\$% \$ "/" )"\$5: \$""%& " "3 ""%\$&  
\$ 3, 95:/ Y\$)C &' / Y\$) \$ "\$%& & : 3 , 5"\$)\$)%& &=" , \$  
\$ & ( 9 ) %%6"& / &&' %="6, " & " ., //%%\$m

4 , /, &' " ), \$ 9 33"9\$" %& &' / \$ 1-5- &'5-\$; C, 3, 95: C \$  
3 5&5" &)"&" 3 , " & " %6"%& 3, %&9" 6" & \$%&3, & \$) ) %  
5 , %%. 96, \$ m \$

4 , /, &' \$ "3"\$ "\$& % ( & \$: , 6 \$ & ( 9 ) %33"9\$" "\$&  
/ \$&' \$5" \$ , 3" & \$%

? \$ H (\$, ="9""%&" . 96, \$ 43"9\$" ? 6"& %& %"\$5""% : & PBR

"%& =9% 9, \$)N&' / 3 &\$" %3 1& 9, 5 9 5&' / (C), " \$/ "\$& \$ \$ (%& :

1& \$ . 96, \$ & / 3 , " \$ "\$- \$5" 33"9\$" %& m PBR" %' 55, (\$& =9& 6,

%6"& 6, \$& %& &' 33"9\$" %& , (- "\$- \$55 33( &3 & \$C \$ "3"\$ "\$&

, " %)-& , 6 %& &' \$ 6" " 9 ") (9 & %&3 "\$& n\$ \$ P\_R \$5 " %' 3(=95

33"9\$" %6"& 1 "\$""% \$ 5, \$6 "\$5" \$ & 9\$33%&' / %1& \$ . 96, \$ M

. BBA 2 ) 4B4 4 A A A C4 644 & 9 ABE 2 G4 I  
14 & & 2 4H4 46 ) HBA64 I 6 & AC44 3

T-" ., //%%\$ %, (9 "5& 47 8 % "-, 9 " %&: 3, \$ \$ "3"\$ "\$&

2, \$& \$ \$: "\$5""% : 5, %&9& \$&%& 5, / 399 "\$&=(9 , " %)-& 5 3 5& &

&" ., //%%\$M T-" \$ "3"\$ "\$& 2, \$& \$ "\$5""%5, %&9& \$&%%, (9 ="

3 , " 1& &" (&, & & " 9( &' \$ "47 8 5, / 39 \$5" 1& &" 43"9\$"

? 6"& 8\$- \$5"/ "\$& 49 \$ Pa4?84bR \$ CMBMDMLBK\$: \$ \$ 99 6\$" % \$ "/" "%

/ 3, %' =: &" ., //%%\$ \$ &" F\$" B\_D 8I39, %\$ "\$%& & : 4 , 5"" \$) %M T-"

\$ "3"\$ "\$& 2, \$& \$ "\$5""% : 5, %&9& \$&%%, (93" "\$5" \$ 33"9\$"

"\$)" "" \$) \$ 33"9\$" %6"& M 6 &" \$ "32"\$ "\$& \$ "\$5""% : 5, %&9& \$&%



"\$&: \$ //" & & " & & 3(=95 %6"& C B"\$ "\$& 2, \$& %, (9 3 , /3&9:  
"3, & & " 3, &'\$& 9 , 9 & \$ 1&\$ D@-, ( %& &%) E /\$%& &' F 1 Q )" %  
\$ % MBDNLBLOC MBBNLDNBUC \$ MBBNBNLLM 6 & " \$ "3"\$ "\$&  
2, \$& \$ "\$5"%% : 5, \$%9& \$&% "\$&: 39&'\$&& \$ , 6 & " 4?84 "/" "%,  
& " "/" "%/3, %' \$ 5, \$\$"5& \$ 1& & "%' F'\_D 8I39, %\$ "\$%&) & :  
4 , 5"" \$)%C & " \$ "3"\$ "\$& 2, \$& %, (9 = " "d( " & "3, & & " 3, &'\$& 9 , 9 & \$  
1&\$ A :%& & " 3 "%\$) E /\$%& &' F 1 Q)" % \$ % MBDNLBLOC MBBNLDN  
LBUC \$ MBBNBNLL \$ .?8; M T- " \$ "3"\$ "\$& 2, \$%, (9 9% = " "d( " &  
"3, & & & " ., //%%\$ \$ & " 3(=95 ") "\$)%&&& % \$ d( 9& , 6 47 80%  
5, /39 \$5" 1& & " 4?84C \$ & " "/" "%/3, %\$ & "%' 3 , 5"" \$)%C , \$  
d( &' 9: = %M J\$ 99: C & " \$ "3"\$ "\$& \$, \$&'5"%% : 5, \$%9& \$&%%, (9 = "  
3 , -=&' 6 , / %"\$Y\$) 1, Y 6 , / 47 8 \$ , & ")(9" &' (&9&'%6, 3" , , 6  
& "" : " %6, 99, 1\$) "5"3& , 6 \$: 5, /3"\$%9&& & 1, Y 6, & " \$ "3"\$ "\$&  
2, \$& M

47 80%6 9( " & , 3" &' \$ / \$ )" %6" %\$%&/" ., //%%\$0%  
\$ =9& & %3" %' 47 8 " 1"99 , 5(/"\$&<sup>BK</sup>M 7"\$ & " %6"& / &&' % & %&' "C  
47 8 \$ & " ., //%%\$ 5 \$\$, & = " 9"6&C , \$5" )&\$G, 95" & "/%9"MT- "  
. , //%%\$ \$ , & - " & " "\$5"%% : "%( 5"%&(9 &' 47 8 ="6, " & " F\$ " B\_D  
8I39, %\$C \$, , "%& " ., //%%\$ - " & " "%'l%\$ , 1 & "66"5&'9: , " %"  
47 80%5, /39 \$5" 1& & " 4?84C / %&' (\$ " & \$) & & 199 & Y' 39 5" , " & "  
\$"I&&' \$ : " %C , & " 6"\$% \$ "/" "%\$ &&' "\$%&) & : 3 , 5"" \$)%M  
\$ "" C & " \$ "3"\$ "\$& G"1 4 \$"9 6, (\$ & .&/&%\$ \$0& - " & "  
"% ( 5"%& " &'5& 47 80% " 9: %, &5, /\$)%&6, "I39, %\$ a& " .4 .

<sup>BK</sup> %5&\$ MEC. 1

\$, & - " & " "%( 5"%& /, \$& 47 80%3" 6, /\$ \$\$\$"9\$" \$&') & / \$ )"/ "\$&  
 "d( &'9: , & " , ) \$ & \$ 9 6, 5(%& & 1, ('9" &' 5, \$5" \$% =, (& 47 80%  
 3" 6, / \$5" \$ /" \$\$)6(9 1 :<sup>FKL</sup>  
 \$9: \$ \$ "3"\$ "\$&/, \$& 5 \$ 3 , " 9""9 , 6 %)-& 5, //"\$% &' 1&  
 &" \$)" 3, %' =: 47 8 , 3" & \$%M \$9: \$ \$ ""\$&\$, \$& 5 \$ 6 59& &'  
 "%& & \$ , 6 &" 3(=95 & (%& \$ 47 80% =9&\$ &' \$ &" ., //%%, \$0%  
 5 3 5& & , " %'" %6"C "9 =9" \$ & (%&')M%%  
 T-" \$"" 6, &" /, " ,=(%&, " %)-&, 6 47 8&\$% \$ 3" 6, / \$5" %  
 %'96N' "\$&M ?3"565 99: C &" ST?H 6, (\$ & \$&6"5&' "\$6, 5"/"\$& 3, %& " , 6  
 &" .4 . 99, 1" 47 80%, ) \$ & \$ 9 6 9( "%& & \$ (" 6, "5 <sup>FKB</sup>M \$ &%  
 3 , = =9" 5 (%' \$ 9: %C &" ST?H 9% -)-9)-"6 5& & & &" .4 . 6 9" &  
 "&'5& &" \$ "d( 5"% , 6 47 80%33"9\$" \$&')/&\$ )"/"\$& 3 , ) /<sup>FKD</sup>M T-"  
 ST?H 9% 6, (\$ & & 4V2?E \$, & - " \$ "66"5&' %)-& \$ "\$6, 5"/"\$&  
 3 , ) /<sup>FKC</sup>M T-" ST?H 6, (\$ & & 4V2?E0%"\$6, 5"/"\$& 3 , ) / &\$/ , \$& \$) , 6  
 %& &' , " %)-& 3 , ) /%C %5- %&" .4 . C 1"Y" \$" "%9&' \$ 9 5Y , 6 "66"5&'  
 6" " 9 , " %)-& \$ %& &' , " %)-& =: &" <sup>FK@</sup>.4 . M\$ &" ST?H 6\$ 9 "3, & - " \$)C  
 ST?H .- / \$ ;" =, - V' % \$ 5, //"\$&' , \$ &" \$""6, 33"9\$" %6"&  
 ") (9 & %0 , 9" p["o" -" 9, & , 6 3 , /\$%PQ=(&1"o " %&\$) %MM& &  
 ") (9 & % " &()- MMM&" ") (9 & 9% , \$""&& \$ " %& \$ \$) ="&1""\$ &"  
 , 3" & % \$ &" 3(=95C \$ &" 3(=95 %5, \$ \$\$\$) & / Y' % " &" , 3" & %

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<sup>FKL</sup> G4 G'3, & & A  
<sup>FKB</sup> ST?H G'3, & & BDDM  
<sup>FKD</sup> ST?H G'3, & & IM  
<sup>FKC</sup> C 1  
<sup>FK@</sup> ST?H G'3, & & ]]M

" , \$) &" )-&&\$)M ST?H H 2"/=" G=" &?(/1 9&"5-," .- / \$  
V' % \$0%%( "%1& &" 33"9\$" %6"& ") (9 pT-% 55 "\$& %\$, & f(%& =, (& &"  
6 9( " ,6 % / \$ 33"9\$"MG &" &o%6=9(&' ,6 \$ "\$&" %%&/ NN %%&/  
,6 5-"5Y% \$ = 9 \$5"%& &%, (9 - " ="\$ 5"&\$ 39""\$& &" %%& M<sup>BKU</sup>  
\$ &% ""1 ,6 47 8 ,3" &\$%6,99,1\$) &" ,139 ,6 47 80%F\$" B\_DC  
&" \$ "3"\$ "\$& G"1 4 \$"9 Pa G4bR G'3, & 5,85"5\$%& & a& 3  
/ \$ )"/"\$&q\$&' "%&% \$ "I3" &' 9" \$ 6\$ 5539 6, / 5\$" 1-5- 9(&'%&"  
5,/3 \$:0%6,5(%,\$,\$," ,6 &%5, " /%\$%n6&%&' \$ "9 =9" \$ & 9 ) %  
% 5" Mb 7"\$ 47 80%\$ 33 ,3 &' \$ /%9 5" 6,5(%,\$ 6\$ 5\$ 9 3" 6, / 5"  
&" & \$ %6"& \$ "9 =9& C & %,\$&)%&3&&" ST?H "&' /\$" & &&"  
a3 , = =9" 5 (%b ,6 47 80%F\$" B\_D "I39, %\$ 7 80%\$ "d( &' 3 , ) /%  
d( 9& %& \$5"C d( 9& 5, \$& ,9 \$ \$&' \$ &'/"\$& 3 , ) /%M  
E55, \$) & &" ST?HC &" ., // %\$ C a %&" '8(96, 33"9\$" %6"&  
1&\$ . 96, \$ C 6 9" & (\$5, " &" 3" %\$ 9, \$) N&\$ \$) 3 , =9"/%1&\$  
47 8M., %&d("\$&9: C &%6 9( " 3 "59( " &" k%\$ \$1 6 , / & Y\$) \$:  
"\$6, 5"/"\$& 5&\$ \$ ) %& 47 8M<sup>BKU</sup> T-%9" &" ST?H & 5, \$59( " & &&"  
a\$"66"5&' "\$6, 5"/"\$& 3, %& " ,6 &" k., // %\$ 3" / &&" 47 80%, ) \$ & \$ 9  
6 9( "%& 5, \$&\$(" , " / \$: : " <sup>BKb</sup> M T-" G4 1 %%9 9: 5 & 9 ,6 &"  
. , // %\$ C 6\$ \$) & & ak&" ., // %\$ \$1 / (%& %//, \$ (3 &" 5, ( )" \$ "%( 5"%  
& /, \$& &" 3 ( "\$5" ,6 &" ,3" & 0%3%)'66"6&&"%& \$ \$ 9:%%, 6 &"

<sup>BKA</sup> ST?H 4 "%%G'9" %E 4-( 2 4--4 4(-.4 62 ; 8&.( & . -8)( -  
( , -& - :-: - .3C(PE)(%&\_LC DLBBR 9 =9" &  
-&&3 gg111M&&M, g\$"1%gDLBBgBBL]\_LM & 9  
<sup>BKU</sup> .SS [ " ?& 66C5(- -( 44 :( - - -( & S N , -& - .3:(3. P; "5"/=" B\_C  
DLBBR 9 =9" & -&&3 gg111M\$\$M, /gDLBBgBBL]\_g6, \$ N3)"N "%, \$%9&  
<sup>BKO</sup> ST?H & BDD  
<sup>BKJ</sup> ST?H & BD\_M

(

3 , ) / "%9&& / \$ )" & " %& /<sup>BKK</sup> / " G4 G'3, & 9% "5, // " \$ " & &  
& " ., // % \$ / Y' & " a& " 5, // & "\$&& / , " & , " 3" 6, / \$5" N= %

") (9 & : , " %)-& , 6 ( && 33" 9\$ " %<sup>PH</sup> & Mb

? \$ H (\$, "/ \$%5, \$5" \$ " & & & " ., // % \$Y% & " "% ( 5" %C "I3" & %  
\$ 5 3 5& & "d( &'9: , " %" 47 80%/39"/ && , 6 & " 4?84 1&, (&, (& %  
%&& \$5" M [ &, (& %665"\$& "% ( 5" %C "I3"\$ && 3 5& C & " ., // % \$ 5 \$\$, &  
3 , &'5& ) \$%& %& 66 9 3%) \$& / , " 5, // 3%\$ , 6 & " 3 3" N= % C =, IN  
5-"5Y\$) ( && & 3 , " "\$66"5&' \$ "\$&&) 3 , =9"/%1& 47 80%, 3" & \$  
\$ / \$ )"/ "\$& , 6 & % %& / 3 , & & " F\$ "I 3, D, %\$M

. , // % \$ " ? / , \$0%5, \$5( "\$5" 3 , 3" 9: 9 / "\$& " ., // % \$0%

a ") "&& =9" b "5% \$ & 6, "), \$ \$ "3" \$ "\$& / , %6, 99, 1%

T- " ; "5% \$ %, (9 - " , " " 47 8 & - " "\$3" \$ "\$& 2, \$& 1-,  
1, (9 "3, && & " ., // % \$ \$ & " 3(=95 '\$) & " %& & % \$ d( 9& , 6  
47 80%1, YC \$ & \$ & & " , \$), \$) / , \$& \$), Y , "\$ = & " . 96, \$  
4(=95 &&'%. , // % \$ ; % \$ , 6 ? 6"& \$ 8\$6, 5"/ "\$& %& & M

? \$ H (\$, % "% ., // % \$ " ? / , \$0% "1M E\$ \$ "3" \$ "\$& / , \$& 5, (9

3 , " \$ \$& )", (%5, /3 \$, \$ & & " ., // % \$0% " %)-& , 6 4?84

/39"/ "\$& & \$ \$ 5-"5Y ) \$%& ., // % \$ 9 3% 1% 9 =" "d( " %6, 99, 1%

G"1 99 "3, & % \$ , 5(/ "\$& & \$ % = / &&' = 847 \$ & "  
. , // % \$ & "&' / "\$ 1-"& " , \$, & 47 8 \$ & ; // % \$ - "  
5, /39" 1& & " 3 , % \$ %, 6 & " ; "5% \$m

G"1 3 , ) / %C 39 \$% \$ / , 65 & %3 , 3, % = 48 &  
"&' / "\$ 1-"& " & ": 5, /39: 1& & " ; "5% \$ / \$ Y"  
"5, // "\$ & \$% & & " ., // % \$ ") \$) & " %m

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<sup>BKK</sup> G4 G'3, & K] NKM  
<sup>DL</sup> G4 G'3, & & DO  
<sup>DLB</sup> , & 43. . 4 & , & - -& . E & ) - & & CSWP 4- -& PINN N F ; .  
C (- (3(- 8 a3 O 8 & ( ) , & - -& B F& & & ; & ( J ( ; a - - - ( a 83 (- &  
& (3. E - -& ; P- (- 3(- & 2- : ; a ( ; a ( ((- 8 9 4) P- 5& ="  
BDC DLBBR

., \$ (5&%&' %&%& ""1 "5, NY""3\$) 3 5&& \$ ,3" & \$%\$  
&" 6"9 m

G'3, && &" ., // %&\$ \$ &" 3(=95 5, \$5" \$\$\$) \$%& \$5"% , 6 \$, \$N  
5, /39 \$5" 1& &" ;"5% \$m

?(= / & \$ \$\$ ( 9 "3, &, \$ 99 6\$ \$) %& &' %4\$ &&" 3(=95 \$ & %  
3 , 5"" \$)M

\$ "3"\$ "\$& /, \$& %- " 3 ", (%@: %' " 3 "5%"& %6(\$5&\$ \$ &" 1 Y'

, 6 , &" %9 & )" <sup>ILD</sup>M

8\$) )"/"\$&, 6 \$ \$ "3"\$ "\$& /, \$& & , " %" 47 \$ ., // %&\$

3" 6, / \$5" % "%&, %&9" 5, ( % , 6 5&1\$(& &' /, \$%& &' & &&"

., // %&\$ "5,) \$ "%9/ && \$%\$ &%, 1\$ "I3" &C 53 5& \$ "%( 5"% \$ &"

"I&'\$&& 1-5- %5- 9/ && \$%& " &'\$ & (\$"" "66"5&' " 9( &\$ , 6 47 80%

4?84 /39"/"\$&& \$ \$ 47 80%5, /39 \$5" 1& &"6\$" % \$ "/" "%/3, %' \$

&" F\$" B\_D 8I39, %\$ \$"%& & : 4 , 5"" \$)M

T-" ST?H "\$%& &\$C &" \$ "3"\$ "\$& G"1 4 "\$9 \$ &" " "\$& :

"5, \$ GMBENLDNLEK " "39"&' 1& "I /39,"\$9\$, & 47 80% =f"5&

/ % \$ )"/"\$&, 6 &%\$ & ( 9 ) %%%&' /C =( & &&' \$ 3\$ 3 5&5" , 6 9 5Y9(%&'

, " %&- & \$ "\$6, 5"/"\$&, 6 47 8 , =9) & \$%=: & 7/ %&\$M <sup>IL</sup>- \$ , " & "3

%&' / &5 "6"5&%\$ &" ., // %&\$0% ") (9 &9 :& \$%3 1& 47 8C , =( %&

, " %&- & 6 , / \$ \$ "3"\$ "\$& /, \$& % "%&'\$& \$M& , \$9: & &C \$ "3"\$ "\$& /, \$&

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<sup>ILD</sup> 33M\_LN\_B , 6 H &% 4" &, 9" (/0%5, \$%"\$& "X &"1 MM8\$ , /"\$& 9 4 , &'5& \$  
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-" 9" & &" E/" 5 \$ 3", 39"M 2 \$ %3 , \$" & \$" ,%%" 199 - 33"\$M S,  
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