God's Unfailing Word

Theological and Practical Perspecti es on hristian e ish elations

T ai and rd r o ission

&F3=D965 2019 7@C E96 F2:E9 2?5 %C56C C@>>:DD:@? @7 E96 C9FC49 @7 E?8=2?5 3J C9FC49 H@FD6 &F3=D9:?8

C@AJC:89E M *96 AC493:D9@ADT C@F?4:=2019

C9FC49 H@FD6, GC62E) >:E9)EC66E, "@?5@?,) - 1& 3A/

A= C:89ED C6D6CG65. %E96C E92? 4eA:6D 7eC =e42=,
?e?-4e>>6C4:2=FD6, ?e A2CE e7 E9:D AF3=42E:e?>2J
36 C6ACe5F465 eC DEeC65 eC EC2?D>:E65 3J 2?J>62?D
eC:?2?J 7eC>, 6=64ECe?:4 eC>6492?:42=, :?4=F5:?8
A9eEe4eAJ:?8, C64eC5:?8, eC 2?J:?7eC>2E:e? DEeC286
2?5 C6EC:6G2=DJDE6>, H:E9eFE HC:EE6? A6C>:DD:e? H9:49
D9eF=5 36 DeF89E 7Ce> E96 CeAJC:89E A5>:?:DEC2EeC,
*96 AC493:D9eADT CeF?4:=(255C6DD 23eG6).
E->2:\[4eAJC:89E@49FC49e76?8=2?5.eC8

0S5*a#+#a 2?5 Ecc(! //wa:? %FC *:>6R 3J 2CE:DE @D9F2 ! @77>2? H2D 4@>>:DD:@?65 3J) 2:?E @D6A9'D +?:G6CD:EJ :? &9:=256=A9:2 E@ >2C< E96 U7E:6E9 2??:G6CD2CJ @7 E96 1965) 64@?5 , 2E:42? C@F?4:=564=2C2E:@? N+/0.a A! 0a0! 2?5 E96 1967 7@F?5:?8 @7 E96 F?:G6CD:EJ'D I?DE:EFE6 7@C 6H:D9-C2E9@:4 (6=2E:@?D.0+D65 96C6 H:E9 A6C>:DD:@?.

BC:E:D9 ":3C2CJ C2E2=@8F:?8 :? &F3=:42E:@? 52E2

A 42E2= 2 8F6 C64@C5 7@C E9:D 3@@< :D 2G2:=23=6 7C@> E96 BC:E:D9 ":3C2CJ

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&C:?F65 2?5 3@F?5 :? GC62F BC:F2:? 31 *96 "F5@ &C6DD

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	2.	A D:DE:?4E:G6 (6=2E:@?D9:A	23
т		T U	49
	3.	#:DD:@? 2?5 EG2?86=D>	51
	4.	*6249:?8 2?5 &06249:?8	61
	5.	*96 "2?5 @7 IDC26=	74
	6.	EE9:42=D:D460?>6?E 2?5 C@>>@? A4E:@?	88
A? A7E6CH@	£5		101
\$@E6D			106

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):?46 E96 D6>:?2=564=2C2E:@? @7 E96) 64@?5 , 2E:42? C@F?4:=@? E96 C6=2E:@? @7 E96 C9FC49 E@ ?@?-C9C:DE:2? C6=8:@?D, N+/0.a A! 0a0! , :? 1965, E96 C9C:DE:2? 49FC496D 92G6 366? 6?82865 :? 2 4@?E:?F:?8 2?5 566A6?:?8 C67=64E:@? @? E96:C C6=2E:@?D9:A H:E9 E96 6H:D9 A6@A=6 2?5 H:E9 F52:D>. *@ 52E6, 9@H6G6C, E96C6 92D 366? ?@ @?6 DE2E6>6?E D6EE:?8 @FE H96C6 E96 C9FC49 @7 E?8=2?5 DE2?5D :? E9:D C6=2E:@?D9:A. *96 5@4F>6?E S\$a.\%# O*! H+,!?, AF3=D965 3J E96 E96? B@2C5 @7 #:DD:@? :? 2001, >2C<65 @FE >F49 @7 E96 E6CC:E@CJ E@ 36 4@G6C65, 3FE :ED 61A=@C2E@CJ DE2EFD H2D 4=62C=J 61AC6DD65 :? :ED D6=7-56D4C:AE:@? 2D \$2 4@?E:3FE:@? E@ 2 4@?E:?F:?8 5632E6I.

- 96? :E H2D DF886DE65 E92E E96 C9FC49 @7 E?8=2?5TD F2:E9 2?5 %C56C C@ > >:DD:@? D9@F=5 AC@5F46 2 DEF5J @7 C9C:DE:2?P 6H:D9 C6=2E:@?D :? @C56C E@ 7:= E9:D 82A, E96 E2D< 2E 7:CDE 2AA62C65 C6=2E:G6=J DEC2:89E7@CH2C5. AD 2 3@5J C6DA@?D:3=6 7@C E96@=@8J, ?@E :?E6C72:E9 C6=2E:@?D, E96 C@ > >:DD:@? H@F=5 7@4FD @? 4=2C:7J:?8 E96 E96@=@8:42= A@D:E:@?D 2C:D:?8 7C@ > E96 C9FC49 @7 E?8=2?5TD 6?8286 > 6?E :? C9C:DE:2?P 6H:D9 C6=2E:@?D D:?46 E96 H2E6CD965 @7 E96 1960D. DC2H:?8 @? 61:DE:?8 E61ED 7C@ > E96 C9FC49 @7 E?8=2?5 7C@ > 3@5:6D :? H9:49 :E :D :?G@=G65 (DF49 2D E96 "2 > 36E9 C@?76C6?46), E96 5@4F > 6?E H@F=5 D6CG6 2D 2 FD67F= DF > > 2CJ @7 H92E 92D 2=625J 366? 6DE23=D965.

IE BF:4<=J 3642>6 2AA2C6?E, 9@H6G6C, E92E E9:D AC@;64E 4@F-5 ?@E 36 4@?7:?65 :? DF49 E:89E A2C2>6E6CD. I56?E:7J:?8 H:E9 4@?7:56?46 H92E E96 C9FC49 @7 E?8=2?5 92D D2:5 23@FE C9C:DE:2?P 6H:D9 C6=2E:@?D :D >256 >@C6 492=6?8:?8 3J E96 23D6?46 @7 DA64:7:4 DE2E6>6?ED 42CCJ:?8 E96 2FE9@C:EJ @7 E96 H@FD6 @7 B:D9@AD @C E96 G6?6C2=) J?@5. #F49 :? E9:D 2C62 9:?86D @? E96 :?E6CAC6E2E:@? @7 E96 9:DE@CJ @7 :?E6C24E:@? 36EH66? C9C:DE:2?:EJ 2?5 F52:D>; :? DF49 > 2EE6CD, E96C6 :D D6=5@> :7 6G6C 2?

F?EC@F3-65 4@?D6?DFD 6:E96C 2>@?8 D49@=2CD @C >@C6 H:56=J :? E96 C9FC49. FFCE96C>@C6, H9:=6 H@C< @? E9:D 5@4F > 6?E H2D F?56CH2J, E96 C6?6H65 AC@>:?6?46 H:E9:? BC:E:D9 AF3=:4 =76 @7 4@?46C?D 23@FE 2?E:D6>:E:D>, 2?5 2C8F > 6?ED 23@FE E96 > 62?:?8 @7 \$/:@?:D>T, H6C6 C6>:?56CD E92E 2EE6 > AED 3J @E96CD E@ 4@>>6?E @? E96 D:8?:7:42?46 @7 E96 6H:D9 A6@A=6 C6F2:? 2 A2CE:4F=2C A@H6C E@ 52>286 2?5 5:G:56.

AE E96 D2 > 6 E: > 6, H@C < @? E96 AC@;64E 2=D@ 277:C > 65 E96 A:G@E2 = D:8?:7:42?46 7@C C9C:DE:2? E96@=@8J 2?5 AC24E:46 @7 E96 C9FC49ID F?56CDE2?5:?8 @7 C9C:DE:2?P 6H:D9 C6=2E:@?D. ADDF > AE:@?D 23@FE F52:D > 2?5 6H:D9 A6@A=6, A2DE 2?5 AC6D6?E, 4@=@FC C9C:DE:2? 2AAC@2496D E@ AC6249:?8, E6249:?8, 6G2?86=D > , 42E6496D:D, H@CD9:A, 56G@E:@? 2?5 2CE, H96E96C @C ?@E C9C:DE:2? 4@ > > F?:E:6D 2C6 4@?D4:@FD @7 E96:C 6H:D9 ?6:893@FCD, ?62C 2?5 72C; E62D:?8 @FE E9@D6 2DDF > AE:@?D 2?5 61A=@C:?8 E96 > E96@=@8:42=J :D E96C67@C6 2 492=6?86 E92E A6CE2:?D E@ E96 H9@=6 C9FC49. *92E 492=6?86 :D 2=D@, 9@H6G6C, 2 AC64:@FD @AA@CEF?:EJ. AD E96 7:CDE SAC:?4:A=61 F?56CA:??:?8 E9:D C6A@CE DE2E6D, H6 2C6 4@?G:?465 E92E SE96 C9C:DE:2?P 6H:D9 C6=2E:@?D9:A :D 2 8:TE @7 G@5 E@ E96 C9FC49, H9:49 :D E@ 36 C646:G65 H:E9 42C6, C6DA64E 2?5 8C2E:EF56, D@ E92E H6 > 2J =62C? >@C6 7F=J 23@FE G@5ID AFCA@D6D 7@C FD 2?5 2=E96 H@C=5.I

- 6 9@A6, E96C67@C6, E9:D 5@4F>6?E 7C@> E96 F2:E9 2?5 %C56C C@>>:DD:@? H:= 36 C625 H:56=J H:E9:? E96 C9FC49 @7 E?8=2?5 2?5 36J@?5, :?4=F5:?8 E96 6H:D9 4@>>F?:EJ. - 6 9@A6 :E H:= 6?4@FC286 42C67F=E96@=@8:42= E9:?<:?8 23@FE E96 H2J C9C:DE:2?D E6249 2?5 AC6249 @?) 4C:AEFC6, 2?5 23@FE E96 49@:46D E96J > 2<6 H:E9 D@?8D, 9J>?D, AC2J6CD 2?5 G:DF2= :>286D 7@C AF3=:4 H@CD9:A. - 6 9@A6 :E H:= C2:D6 2H2C6?6DD @7 E96 E96@=@8:42= BF6DE:@?D E92E D9@F=5 2C:D6 7@C C9C:DE:2?D H96? 6?828:?8

H:E9 5632E6D 23@FE IDC26= 2?5 & 2=6DE:?6, 2D E96J 2C6 > @C6 @C =6DD 3@F?5 E@ 5@ 2E D@ > 6 A@:?E. A?5 H6 9@A6 :E H:= 6?4@FC286 C9C:DE:2?D E@ 36 4@?7:56?E :? G6?EFC:?8 :?E@ 5:2=@8F6 H:E9 6H:D9 A6@A=6 23@FE G@5ID AFCA@D6D 7@C FD, :? 492=6?8:?8 2?E:D6 > :E:D > , 2?5 :? H@C<:?8 E@86E96C 7@C E96 4@ > >@? 8@@5 @7 @FC D@4:6EJ. - 6 2C6 566A=J 2AAC64:2E:G6 @7 C9:67 (233: EA9C2: > #:CG:DID H:=:?8?6DD E@ 4@?EC:3FE6 2? A7E6CH@C5, E96C63J 96=A:?8 E@ >@56=DF49 5:2=@8F6 2?5 4@=23@C2E:@? H:E9:? E96 A286D @7 E9:D E61E.

*96 F2:E9 2?5 %C56C C@>>:DD:@? H2D 4@?D4:@FD 7C@> E96 @FED6E E92E :E H@F=5 ?665 61A6CE:D6 7@C E9:D AC@;64E 7C@> 36J@?5 :ED >6>36CD9:A. - 6 2C6 E96C67@C6 G6CJ &C2E67F=E@ &9:=A A=612?56C, C=2C6 A>@D, ! 2E BC62=6J, 2?6 C=6>6?ED, (:492C5) F5H@CE9 2?5 GFJ - :=<:?D@? 7@C 2&C66:?8 E@ 7@C> 2 5C27E:?8 &C@FA 7@C E96 5@4F>6?E, H9:49 H2D 492:C65 3J E96 B:D9@A @7 ":497:6=5, @?6 @7 E96 6A:D4@A2=>6>36CD @7 E96 C@>>:DD:@?, 2?5 DFAA@CE65 3J :ED) 64C6E2CJ, 6C6>J - @CE96?. *96 7:?2= 4@?E6?E C6>2:?D E96 C6DA@?D:3:=EJ @7 E96 C@>>:DD:@? :ED6=7. IE 6>6C865 7C@> 2 AC@46DD @7 5:D4FDD:@? 2?5 56=36C2E:@?, :? H9:49 2=:?G@=G65 >:89E C68C6E E96 =@DD @7 D@>6E9:?8 E96J H@F=5 92G6 =<65 E@ D66 :?4=F565. %FC 2:>, 9@H6G6C, H2D E@ AC@5F46 2 E61E E92E C67=64ED E96 E6249:?8 @7 E96 C9FC49 @7 E?8=2?5 @? E96D6 >2EE6CD, >2AD E96 E6CC:E@CJ @7 G:6HD =<6=J E@ 36 7@F?5 2>@?8 :ED >6>36CD 2?5 :56?E:7:6D D@>6 @7 E96 4C:E:42= BF6DE:@?D E92E 2C:D6 7C@> E92E. - 9:=6 E9:D 2:>:D>@C6 61A2?D:G6 E92? E96 @C:8:?2= 4@?46AE:@?, H6 ECFDE @FC H@C< C6>2:?D @776C65 :? 9F>:=EJ 367@C6 G@5.

T\$! R0 R! 2 D. C\$.\%0+, \$!. C+c'/3+.0\$ B\%\$+, +" C+2! *0.5 C\$a\%, Fa\%0\$ a* O. !. C+)) \%/\%+* AD C9C:DE:2?D, @FC F?56CDE2?5:?8 @7 E96 C6G6=2E:@? @7 G@5 :? C9C:DE :D :>A@G6C:D965 H96? H6 72:=E@ 2AAC64:2E6 G@5TD 42=:?8 @7 2?5 FA@? E96 6H:D9 A6@A=6. I? D:>A=6 E6C>D, E96 C9FC49 :D 36:?8 =6DD E92? :ED ECF6 D6=7 H96? :E C67FD6D E96 8:7E @7 C9C:DE:2?P 6H:D9 6?4@F?E6C. AD DF49, I 2 > 56 = 89E65 E92E E96 F2:E9 2?5 %C56C C@>>:DD:@? 92G6 AC@5F465 2 E6249:?8 5@4F > 6?E @ DJ?E96D:K6 2?5 C6D@FC46 E96 C9FC49 @7 E?8=2?5TD E96@=@8J @? C9C:DE:2?P 6H:D9 C6=2E:@?D.

+?56CDE2?5:?8 E96 C6=2E:@?D9:A 36EH66? C9C:DE:2?:EJ 2?5 F52:D>:D
?@E 2? @AE:@?2=6IEC2, 3FE 2 G:E2=4@>A@?6?E @7 C9C:DE:2? 7@C>2E:@? 2?5
5:D4:A=6D9:A. IE :?7@C>D @FC 52:=J B:3=6 C625:?8, AC2J6C 2?5 H@CD9:A, 2D
H6= 2D @FC C6=2E:@?D9:AD H:E9 6H:D9 ?6:893@FCD, 7C:6?5D 2?5 4@=628F6D.
#J 9@A6 :D E92E G+ 9/ U*"a*# W+. H:= 2=D@:>A24E E96 E6249:?8,
AC6249:?8 2?5 =:EFC8:6D @7 C9FC49 @7 E?8=2?5 4@?8C682E:@?D. AE 4=6C8J
2?5 =2J =6G6=D @7 =6256CD9:A, I 36=:6G6 H6 DE:= 92G6 >F49 E@=62C? 23@FE
2 >@C6 ECFE97F= 2?5 72:E97F= AC6D6?E2E:@? @7 E96 8:7E @7 C9C:DE:2?P 6H:D9
6?4@F?E6C.

I 2> AC:G:±6865 E@ 36 2 &C6D:56?E @7 E96 C@F?4:=@7 C9C:DE:2?D 2?5 6HD

(CC), 2? @C82?:K2E:@? 7@F?565 3J > J AC65646DD@C AC493:D9@A - :=:2>

*6>A±6 2?5 C9:67 (233: - :=:2> H. H6CEK :? E96 52C< 52JD @7 E96) 64@?5

- @C±5 - 2C. IE :D 2 ;@J E@ D66 9@H CC ID H@C< E@52J 3C:?8D E@86E96C

C9C:DE:2?D 2?5 6HD :? 2 DA:C:E @7 > FEF2=EJ. I? =2C86 A2CE E9:D 92D 366?0>J AC65 907 96DC

2>@?8 >J 7C:6?5D :D @?6 @7 >J 8C62E6DE AC:G:=686D. B@E9 E96 H2C > C6=2E:@?D9:A 36EH66? 9:D 72>:=J 2?5 >:?6, 2?5 E96 H@C @7 CC 2?5 I? G@@5 F2:E9, 2C6 E6DE2 > 6?E E@ E96 C6 > 2C < 23=6 AC@8C6DD :? C9C:DE:2?P 6H:D9 C6=2E:@?D @G6C E96 =2DE 7:7EJ J62CD. *96D6 E9:?8D 2C6 E@ 36 EC62DFC65 2?5 46=63C2F65.

*96 D9:7F F92F 92D F2<6? A=246 :D >@DF G:G:5=1 6A:F@>:K65 :? F96 DJ > 3@=:D > @7 E96 DE2EF6 \$) J?28@82 2?5 E44=6D:2 :? @FC *: > 6T @FED:56 E96 I?DE:EFE6 7@C C2E9@=:4P 6H:D9 (6=2E:@?D 2E)E @D6A9TD +?:G6CD:EJ :? [96 +?:[65)[2[6D: 2 A9@[@8C2A9 @7 [9:D :D @? [96 4@G6C, *96 :>286 (6:>28:?6D F96 (6=2F:@?D9:A 36FH66? F52:D> 2?5 C9(:DF:2?:EL2D @?6 @7 > FEF2= 27764E:@? 2?5 :?E6C56A6?56?46. . . 6E @?=J 3J =@@<:?8 324< 2?5 C64@8?:K:?8 @FC72:=FC6D 2D C9C:DF:2?D 42? H6 368:? F@ >@G67@CH2C5 H:F9 2FF96?F:4:F.J. *@@ @7F6? :? 9:DF@C.J.F96 C9FC49 92D 366? C6DA@?D:3=6.7@C 2?5 4@=F565 :? 2?E:D6>:E:D> P 2?5 E96 724E E92E 2?E:D6>:E:4 =2?8F286 2?5 2FE24<D 2C6 @? F96 C:D6 24C@DD F96 +! 2?5 EFC@A6 > 62?D H6 42??@E 36 4@>A=246?E. | C67=64E65 @? E9:D 2D | DE@@5 2=@?8D:56 @E96C C9C:DE:2? =6256CD:? 2?<=6-566A D?@H H:E9:? E96 42 > A @7 B:C<6?2F:? 2016, 2>:5 E96 CF:?D @7 E96 82D 492 > 36CD. *96 =6256C @7 @FC G:D:E 42=65 @? FD E@ 962C E96 G@:46D @7 E96 >:=@?D > FC56C65 :? E92E A=246 P E96 G2DE > 2:@C:EJ @7 H9@> H6C6 6H:D9. *96 3:EE6C 4@=5 2?5 E96 4@=@FC=6DD @FE=:?6 @7 E96 =2?5D42A6 C67=64E65 E96 9@CC@C :? @FC DA:C:ED, >:?5D 2?5 962CED, E92E E9:D 925 E2<6? A=246 2?5 C9C:DE:2?D 925 5@?6 > F49 @7 :E. :? =:89E @7 E9:D. I H6=4@>6 E96 H2J E92E G+ 9/ U*"a\%# W+. :D F?7=:?49:?8 :? C6;64E:?8 C9C:DE:2? 72:=:?8D, H9:=6 9@A67F=:? D:8?2=:?8 E96 C:49 AC@>:D6 @7 C9C:DF:2?P 6H:D9 6?4@F?F6C

92E D2:5, E96C6 C6 > 2:? > 2?J 5:77:4F=E, 4@?E6DE65 2C62D E@ C9C:DE:2?P 6H:D9 E96@=@8J 2?5 76H 567:?:E:G6 2?DH6CD! I?DE625, E96 H@C5 \$>JDE6CJT H:= 364@>672>:=20E@06256CD@7G+9/U"a%#W+.275?646DD2C:=JD@.*96C9C:DE:2?P6H:D96?4@F?E6CC2:D6DBF6DE:@?D@7D2=G2E:@?,>@?@E96:D>,EC:?:E2C:2?:D>2?54@66?2?E.*96C9C:DE:2?4@?G:4E:@?E92EG@592D366?C6G62=65:?E96=76,562E92?5C6DFCC64E:@?@7E967:CDE-46?EFCJ6H:D9C233:,6DFD,CF3DFA282:?DE6H:D9244FD2E:@?D@7:5@=2ECJ2?5E962AA2C6?E6=FD:G6?6DD@7E96#6DD:2?:46C2@7A62462?5;FDE:46.C9C:DE:2?:EJIDC6=2E:@?D9:AE@F52:D>:D>2C<653J3@E94@?E:?F:E:6D2?55:D4@?E:?F:E:6DP2E6?DE:2?86?6DD,H6C646:G6E968:7E@7G@5.

C9:67 (233: #:CG:D 92D 5@?6 A?8=:42? C9C:DE:2?D 2 8C62E D6CG:46 3J HC:E:?8 2? A7E6CH@C5 E92E C67=64ED 9:D >:D8:G:?8D @G6C @?6 @7 E96 \$4C:E:42= :DDF6DT E9:D 5@4F > 6?E 61A=@C6D: E96 BF6DE:@? @7 >:DD:@? 2?5 6G2?86=:D >. H:D H@C5D 2C6 HC:EE6? 2D 2 7C:6?5, 2?5 E96J 2C6 C646:G65 :? 2 D:>:=2C DA:C:E, 9@H6G6C E@F89 E96J 2C6 E@ C625. AD 2 C6DF=, I E2 <6 E96 492=6?86 @7 9:D A7E6CH@C5 H:E9 :>>6?D6 D6C:@FD?6DD. *@ D92C6 E96 9@A6 @7 D2=G2E:@? H:E9:? FD, 2 9@A6 4@>:?8 7C@> 6DFD C9C:DE, :D 4@C6 E@ H92E C9C:DE:2?D 5@, 3FE H6 2C6 E@=5 E@ 5@ D@ H:E9 86?E=6?6DD 2?5 8C246. A?J D6?D6 E92E H6 E2C86E 6H:D9 A6@A=6 >FDE 42CCJ E96 H6:89E @7 E92E 9:DE@CJ. *96 C9:67 (233: 92D @A6?65, H:E9 492C24E6C:DE:4 9@?6DEJ 2?5 27764E:@?, 2 492=6?86 FA@? H9:49 H6 >FDE C67=64E. - 6 42??@E 5@ E92E C67=64E:@? 9@?6DE=J F?E:= H6 92G6 76=E96 4CF6=J @7 @FC 9:DE@CJ.

- 92E 6G6? E9:D 3C:67 61492?86 H:E9 E96 C9:67 (233: 9:89=89ED :D E92E E96 H@C< @7 C9C:DE:2?P 6H:D9 C6=2E:@?D :D ?@E 7:?:D965, 2?5 E92E E9:D E6249:?8 5@4F > 6?E D9@F=5 DAFC FD E@H2C5D >@C6 2?5 566A6C 6?4@F?E6CD H96C6 H6 42? 962C 2?5 F?56CDE2?5 6249 @E96C. G+ 9/U*"a\\##W+. C6>:?5D FD E92E E96 5:G6CD:EJ @7 4@?E6 > A@C2CJ F52:D >, E96 4@ > > F?:EJ @7 =:G65

EC25:E:@?D, :D @7E6? G6CJ 5:776C6?E E@ E92E AC6DF > 65 3J C9C:DE:2?D.

*96 E61E @7 E9:D 5@4F > 6?E H:= F=E: > 2E6=J 92G6 E@ 36 ;F5865 3J E96
61E6?E E@ H9:49 :E C6D@FC46D ?6:893@FC=J 6?8286 > 6?ED 36EH66?
C9C:DE:2?D 2?5 6HD :? 2=E96:C C:49 5:G6CD:EJ; E92E E96 E96@=@8:42=
H@F=5 364@>6 AC24E:42=. 6HD 2?5 C9C:DE:2?D D92C6 2 36=:67 E92E
H6 2C6 2= > 256 :? E96 :> 286 @7 E96 @?6 G@5, 2 G@5 @7 4@G6?2?E, 2?5
E96 9@A6 @7 E96 H9@=6 H@C=5. #2J G@5 36 8=@C:7:65 :? @FC C6=2E:@?D9:A!

→ +)*I\$ CA\$*+A(

T\$! M+/0 R!2 a* R0 H+*. J1/0%* W! (b5)

A.c\$b%\$+, +" Ca*0! .b1.5

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*96 C9C:DE:2?P 6H:D9 C6=2E:@?D9:A :D @?6 @7 F?:BF6 D:8?:7:42?46 7@C E96 C9FC49, 7@C C62D@?D E92E 2C6 61A=@C65 :? E96 492AE6CD E92E 7@=@H. AE C@@E, E92E F?:BF6 D:8?:7:42?46 :D E96@=@8:42=: :E 4@?46C?D H92E :D 4@>>F?:42E65 23@FE G@5 E9C@F89 E9:D C6=2E:@?D9:A, 2?5 H92E G@5 :D D2J:?8 E@ FD E9C@F89 :E. H6?46 E96 C9C:DE:2?P 6H:D9 C6=2E:@?D9:A 42=D 7@C E96@=@8:42= E9:?<:?8 @? E96 A2CE @7 E96 C9FC49, 2D :E D66<D E@ C64@8?:K6 2?5 C6DA@?5 E@ G@5TD 4@>>F?:42E:G6 24E:@?. *96 F2:E9 2?5 %C56C C@>>:DD:@? @7 E96 C9FC49 @7 E?8=2?5, :? F?56CE2<:?8 E9:D DEF5J @7 E96 E96@=@8J @7 C9C:DE:2?P 6H:D9 C6=2E:@?D, 368:?D 7C@> E96 AC:?4:A=6 E92E:

*96 C9C:DE:2?P 6H:D9 C6=2E:@?D9:A :D 2 8:7E @7 G@5 E@ E96 C9FC49, H9:49 :D E@ 36 C646:G65 H:E9 42C6, C6DA64E 2?5 8C2E:EF56, D@ E92E H6 >2J =62C? >@C6 7F=J 23@FE G@5TD AFCA@D6D 7@C FD 2?5 2=E96 H@C=5.

\$@ DF49 DEF5J, 9@H6G6C, 42? AC@4665 H:E9@FE 2EE6?E:@? E@ E96
A6CD64FE:@? 2?5 AC6;F5:46 61A6C:6?465 3J 6H:D9 A6@A=6 E9C@F89 9:DE@CJ,
E96 C6DA@?D:3:=EJ 96=5 3J C9C:DE:2?D 7@C E92E 2?5 :ED A6CD:DE6?46 :? E96
4@?E6 > A@C2CJ 4@?E61E. I? 2 4@?EC:3FE:@? E@ 2 C6A@CE AF3=D965 :? 2016,
AC493:D9@A FDE:? - 6=3J =<6?65 2?E:D6 > :E:D > E@ 2 G:CFD E92E > 2J 2AA62C
5@C > 2?E 3FE 42? 2= E@ 62D:=J 36 C624E:G2E65 :? 2= <:?5D @7 4@?E61ED,
:?4=F5:?8 49FC496D. I? 4@ > >6?E:?8 @? E96 DA64:7:4 492=6?86D 724:?8 E96
C9FC49 :? D66<:?8 E@ 6C25:42E6 :E, 96 :56?E:7:65 E96@=@8J 2D 2 G:E2=:DDF6: SIE
:D 2 D92 > 67F=ECFE9 E92E, E9C@F89 :ED E96@=@8:42=E6249:?8D, E96 C9FC49, H9:49
D9@F=5 92G6 @776C65 2? 2?E:5@E6, 4@ > A@F?565 E96 DAC625 @7 E9:D G:CFD.I¹

*H@ A@:?ED 2C6 36:?8 > 256 3J E96 AC493:D9@A :? E96D6 C6 > 2C<D, 3@E9 @7 H9:49 F?56CA:? E9:D 5@4F > 6?E 7C@ > E96 C9FC49 @7 E?8=2?5TD F2:E9 2?5 %C56C C@ > >:DD:@?. *96 7:CDE :D E92E E96 E96@=@8:42=E6249:?8D /\$+1(@776C 2? 2?E:5@E6 E@ 2?E:D6 > :E:D > . *96 8@DA6=8:G6? E@ E96 C9FC49 :D 8@@5 ?6HD 7@C 2=. *96 C9FC49TD 42=:?8 :D E@ H:E?6DD E@ C9C:DE, H9@ :D E96 =:89E

@7 G@5 2?5 H9@ C6G62=D E96 =@G6 @7 G@5. *96C6 42? 36 ?@ @G6C=2A 36EH66? E96 ECFE9 @7 E9:D H:E?6DD, H9:49 :E :D E96 E2D< @7 E96@=@8J E@

IE 7@=@HD 7C@ > E9:D AC:?4:A=6 E92E D:?46 E96@=@8:42=:562D 92G6 366? FD65 E@ =68:E: > 2E6 2?E:D6 > :E:D > , E96@=@8:42=:?G6DE:82E:@? :D C6BF:C65 C682C5:?8 C9C:DE:2? E6249:?8 23@FE F52:D > 2?5 C9C:DE:2?P 6H:D9 C6=2E:@?D.) F49 E96@=@8:42=:562D 92G6 366? 6I AC6DD65 ?@E @?=J :? 24256 > :4 D49@=2CD9:A 2?5 :? @77:4:2=49FC49 E61ED, 3FE :? 6G6CJ52J AC6249:?8, E6249:?8 2?5 A2DE@C2=25G:46. *96J 92G6 366? 4@?G6J65 :? E96 H2JD E92E C9C:DE:2?D 92G6 D@F89E E@ 6G2?86=K6 6HD, 2?5 :? E96 H2JD E92E E96J 92G6 23DE2:?65 7C@ > 6G2?86=K:?8 6HD. *96J 92G6 366? 4@ > F?:42E65 E9C@F89 D@ > 6 7@C > D @7 C9C:DE:2? :?E6CAC6E2E:@? @7 E96 %=5 *6DE2 > 6?E, 2?5 E9C@F89 C9C:DE:2? ?68=64E @7 E96 %=5 *6DE2 > 6?E, 2D :7 E96C6 42? 36 ?@ 6I A64E2E:@? @7 962C:?8 5:G:?6 E6249:?8 7C@ > :ED A286D.3 *96J 92G6 366? C67=64E65 :? 9J > ?D 2?5 56G@E:@?2= A@6ECJ, :? C6=8:@FD :4@?@8C2A9J 2?5 :? C:EF2= AC24E:46D.

FC@> E96D6 EH@ A@:?ED > 256 :? E96 AC493:D9@ATD DA6649, :E :D 6G:56?E F92E F96C6:D 2 4@?E:?F:?8 F96@=@8:42=E2D< 7@C F96 C9FC49:?:ED C6DA@?D6 F@ F96 C62=EJ @7 2?F:D6>:E:D> 2?5 :? D66<:?8 F@ 3F:=5 8@@5 C6=2F:@?D9:AD H:E9 6H:D9 A6@A=6 E@52J. AE E96 962CE @7 E9:D E2D< :D E96 ?665 E@ @FE=?6 H92E E96 C9F(49 92D E@ D2J :? E96 =: 89E @7 E96 8@DA6= 23@FE C9C:DE:2?P 6H:D9 C6=2E:@?D. E249 @7 E96 492AE6CD E92E 7@=@H E96C67@C6 368:?D 3J D6EE: ?8 @FE D@ > 6 4@?4:D6 \$A77:C > 2E:@?DT C682C5: ?8 E96 DF3:64E @7 E92E 492AF6C. IE:D 9@A65 F92F >6 > 36CD @7 F96 C9FC49 @7 E?8=2?5 H:= 36 23=6 E@ FD6 E96D6 \$A77:C>2E:@?DT 2D A@:?ED @7 @C:6?E2E:@?, ?@E ;FDE H96? E96J 2(6 4@?D4:@FD=J :? 5:2=@8F6 H:E9 6H:D9 4@>>F?:E:6D 2?5 :?5:G:5F2=D. 3FE H96?6G6C E96J 2C6 E@F49:?8 @? > 2EE6CD E92E 92G6 2 362C:?8 @? 9@H C9C:DE:2?D G:6H 2?5 C6=2E6 E@ 6HD. AE E96 D2>6 E:>6, :E :D C64@8?:K65 E92E E96C6 2C6 D:8?:7:42?E BF6DE:@?D C2:D65 96C6 @? H9:49 2 H:56 DA64ECF > @7 @A:?:@? 61:DED H:E9:? E96 C9FC49 @7 E?8=2?5, 2?5 :?5665 :? D@ > 6 42D6D A2DD:@?2E6 5632E6.)F49 5:776C6?46D @7 2AAC@249 E@ D@>6 61E6?E >:CC@C E9@D6 24C@DD E96 A?8=42? C@>>F?:@?, @7 H9:49 E96 C9FC49 @7 E?8=2?5

Go 's Unfailing Wor

:D 2 >6>36C, 2?5 @? H9@D6 H@C< :? E9:D 2C62 E96 E61E 2:>D E@ 3F:=5. A 7@FCE9 AC:?4:A=6 7@C E96 HC:E:?8 @7 E9:D 5@4F >6?E 92D E96C67@C6 366? E92E:

C9C:DE:2? 36=67 92D 2 362C:?8 @? 9@H C9C:DE:2?D G:6H 2?5 C6=2E6
 E@ 6HD. C2C67F=5:D46C?>6?E:D ?66565 2D E@ H96C6 C9C:DE:2?D

H:E9 5:D46C?>6?E E@ E96 C2?86 @7 G@:46D @7 6H:D9 A6@A=6 E96>D6-G6D.4

*96 C9FC49TD C6DA@?D:3:=EJ E@ DA62< ECFE97F=J 2?5 C:89E=J C682C5:?8
C9C:DE:2?P 6H:D9 C6=2E:@?D >62?D :E >FDE 2=D@ C67=64E 42C67F=J @? E96
=6824J @7 E96 A2DE. F@C A?8=42?D, DF49 C67=64E:@? ?665D E@ :?4=F56
A2CE:4F=2C 2EE6?E:@? E@ E96 :?C@=G6>6?E @7 E96:C 7@C6362CD :? E92E 9:DE@CJ.
I? D@>6 42D6D, E96 FD6 @7 E96@=@8:42=:562D 3J 49FC49 =6256CD E@ DE:C FA
9@DE:=EJ E@H2C5D 6H:D9 4@>>F?:E:6D :D A2:?7F=J 2AA2C6?E, 2D C6G:6H65

4@?5:E:@?D 4C62E65 3J E96 H2CI.⁵ CC 24E:G6=J 4@?E:?F6D :? E9:D >:DD:@? E@52J 2=@?8D:56 ?F > 6C@FD 255:E:@?2=:?:E:2E:G6D, ;@:?E DE2E6 > 6?ED 2?5 24E:@?D 492=6?8:?8 2?E:D6 >:E:D> 2?5 AC@>@E:?8 > FEF2= F?56CDE2?5:?8.⁶

*96C6 2C6 2 ?F > 36C @7 D:8?:7:42?E C6D@FC46D 7@C 2? A?8=:42? E96@=@8J @7 C9C:DE:2?P 6H:D9 C6=2E:@?D. *96 1988 "2>36E9 C@?76C6?46 :? (6D@=FE:@? 21 $$4@>>6?565 \ 7@C \ DEF5JI \ E96 \ C6A@CE \ Je \ s, Christians and Muslims: The$ Wa! of Dialogue, H9:49 @3D6CG65 E92E \$2 C:89E F?56CDE2?5:?8 @7 E96 C6=2E:@?D9:A H:E9 F52:D>:D N 7F?52>6?E2=E@ C9C:DE:2?:EJTD @H? D6=7-F?56CDE2?5:?8I, 255:?8 E92E A?8=42?D D9@F=5 C6:64E 2?J G:6H @7 F52:D> H9:49 D66D :E 2D \$2 =G:?8 7@DD:=, D: > A=J DFA6CD6565 3J C9C:DE:2?:EJT. IE :D H@CE9 ?@E:?8 E92E E96 :?E6?E:@? 2E 2? :?:E:2=DE286 925 366? E@ AC@5F46 8F:56=?6D@? C9C:DE:2?P 6H:D9 C6=2E:@?D. 3FE :E H2D E96? 564:565 E@ 4@?D:56C C9C:DE:2?P#FD=> C6=2E:@?D 2D H6=.8 *96C6 2C6. 9@H6G6C. 5:DE:?4E:G6:DDF6D:?624942D6, H9:49:D@?6C62D@?H9JE9:D5@4F>6?E 7@4FD6D DA64:7:42=J @? C9C:DE:2?P 6H:D9 C6=2E:@?D, H9:=6 2=D@ 36:?8 4@?D4:@FD @7 F96 G;E2=: > A@CE2?46 @7 C6=2E;@?D9;AD H;E9 #FD=: > D 7@C C9C:DE:2?D 2D:?5665 7@C 6HD. +?56CDE2?5:?8 E96 F?:BF6 492C24E6C @7 E96 C9C:DE:2?P 6H:D9 C6=2E:@?D9:A :D 2 A2CE:4F=2C 7@4FD 7@C C92AE6C 2 @7F964FCC6?F5@4F>6?F.

I? 1994, Christians and Je s: A Ne Wa! of Thinking H2D AF3=D965 3J E96 C9F(496DT C@>>:DD:@? 7@C I?E6C F2:E9 (6=2E:@?D, 2 C@>>:DD:@? @7 C9F(496D *@86E96C :? BC:E2:? 2?5 IC6=2?5, @7 H9:49 E96 C9F(49 @7 E?8=2?5 :D 2 =625:?8 >6>36C. IE 4=2:>65 E92E S@FC @H? 286 :D F?5@F3E65=J 2 E:>6

I? 2001, E96 I?E6C F2:E9 C@?DF£2E:G6 GC@FA @7 E96 AC493:D9@ADI C@F?4:= AC@5F465 7@C E96 C9FC49 @7 E?8=2?5 S\$a.\## O*! H+,!?, 2 E61E H9:49 DEC6DD65 E96 ?665 E@ C6AF5:2E6 2?E:D6>:E:D>, E@ C64@8?:K6 E96 4@?E:?F:?8 G:E2=EJ @7 F52:D>, E@ 65F42E6 E96 C9FC49 36EE6C 23@FE E96 6H:D9 C@@ED @7 C9C:DE:2?:EJ 2?5 E@ D66< @AA@CEF?:E:6D 7@C 5:2=@8F6 2?5 A2CE?6CD9:A H:E9 6H:D9 A6@A=6. IE ?@E65 E92E :E 925 \$?@ 2FE9@C:EJ @E96C E92? E92E @7 2? @442D:@?2= A2A6C AF3=D965 E@ DF>> 2C:K6 E96 :DDF6D, E@ 6?4@FC286 5:D4FDD:@?, 2?5 E@ DF886DE H2JD @7 AC@>@E:?8 8@@5 AC24E:46 H:E9:? E96 C9FC49 @7 E?8=2?5I. *96 >@56DEJ @7 D4@A6 @7 E9:D F?56CE2<:?8 H2D A6C92AD C67=64E65 :? E96 BF6DE:@? > 2C< 2E E96 6?5 @7 E96 > 2:? E:E-6.10

*96 \$6EH@C 7@C 1?E6C F2:E9 C@?46C?D 92D 925 2? :>A@CE2?E C@-6 :? 6?4@FC28:?8 5:2=@8F6 2?5 C67=64E:@? 24C@DD E96 A?8=:42? C@>>F?:@?. 1? 2008, :E AF3=:D965 G! *! .+1/ L+2! , D6EE:?8 @FE 2? A?8=:42? E96@=@8:42= 2AAC@249 E@ C6=2E:@?D 36EH66? C9C:DE:2?:EJ 2?5 @E96C C6=8:@?D.¹¹ I? 2014, :E DFAA@CE65 E96 AF3=:42E:@? @7 2?@E96C C6A@CE H:E9 2 BF6DE:@? >2C< :? :ED E:E=6, La* +" P.+) %! ?¹² - 9:=6 E96 42E2=JDE 7@C E9:D H@C H2D 5:D4FDD:@? H:E9:? E96 A?8=:42? C@>>F?:@? 23@FE \$C9C:DE:2? /:@?:D>I 2D 2 7@C> @7 E6249:?8 H:E9:? E96 C9FC49, :E BF:4<=J 3642>6 2AA2C6?E E92E C6DA@?5:?8 E96@=@8:42=J E@ E96 :DDF6D C2:D65 H@F=5 :?G@=G6 42C67F=6?8286>6?E H:E9 C9C:DE:2?P 6H:D9 C6=2E:@?D. F@C :?DE2?46, :E :D 5:77:4F=E@ D6A2C2E6 BF6DE:@?D 23@FE H96E96C G@5TD AC@>:D6 @7 E96 =2?5 E@ E96 56D46?52?ED @7 A3C292> DE:= DE2?5D 7C@> BF6DE:@?D 23@FE 9@H C9C:DE:2?D F?56CDE2?5 G@5TD AC@>:D6D E@ E96 A6@A=6 @7 IDC26=:? E96 %-5 *6DE2>6?E 2D 2 H9@=6 E@ 36 C6=6G2?E E@ 4@?E6>A@C2CJ F52:D>.

- 9:=6 E96C6 :D 2 D:8?:7:42?E 3@5J @7 > 2E6C:2=E@ 36 5C2H? @?, E96?, E96 C9FC49 @7 E?8=2?5 92D ?@E 2EE6 > AE65 E@ D6E @FE :? 2 7@C > 2= H2J :ED E6249:?8 :? E9:D 2C62, 2D 2 ?F > 36C @7 @E96C 49FC496D 92G6 5@?6 (3C:67=J 5:D4FDD65 :? C92AE6C 1 36=@H). *96C6 :D 2 C:D< E92E E96 G24FF > E96C63J =67F > 2 J = >: F F96 67764F: G676DD @7 7FFFC6 H@C< 3 J F96 C9FC49 @7 E78=275 :? C9C:DE:2?P 6H:D9 C6=2E:@?D 2?5 F?56C>:?6 4@?7:56?46 :? F96 AC@8C6DD E92E 92D 366? > 256 :? E96 A2DE D: IEJ J62CD, 2D C6G: 6H65 :? C92AE6C 1 @7 E9:D C6A@CE. #@C6@G6C, 2?E:D6>:E:D> 4@?E:?F6D E@ 36 2? :DDF6 :? H:56C D@4:6EJ 2?5 :?5665 :D A6C46:G65 3J > 2?J 2D 2 8C@H:?8 AC@3=6>. H96E96C E9:D C6=2E6D E@ A@=:E:42= A2CE:6D, D@4:2= >65:2 @C DEF56?E F?:@?D.¹³ (646?E 6G6?ED:? F96+! 4@?E61E 92G6 9:89=89E65 E96 42A24:EJ @7 2?E:D6>:E:D> E@ 7:?5 AFC492D6 24C@DD E96 A@=E:42=DA64ECF>. @? E96 =67E 2D H6= 2D @? E96 C:89E. H@=@42FDE 56?:2=C6>2:?D AC6G2=6?E 24C@DD 2 C2?86 @7 5:776C6?E 4@?E61ED. :? E9:D 4@F?ECJ 2?5 2C@F?5 E96 H@C=5. 7C@> 1?E6C?6E D@FC46D E@ E96 ?@E@C:@FD 2?E:D6>:E:4 E61E T\$! P.+0+c+(/ +" 0\$! E(!./ +" Z\#*, H9:49 42? DF:= 36 7@F?5 @? > 2C<6F DF2=D 2?5 7@C D2=6 :? A2CFD @7 EFC@A6 2?5 E96 #:55=6 E2DE. I? E9:D H:56C 4@?E6IE. C9C:DE:2?D ?665 E@ 36 2H2C6 E92E D@>6 6HD 4@?E:?F6 E@ 762C E92E C9C:DE:2?:EJ :D :ED6=7, 2E C@@E, $:CC6566 > 23=J 2?E:D6 > :E:4.^{14}$

*96 F2:E9 2?5 %C56C C@>>:DD:@? 92D E96C67@C6 AC@5F465 E9:D E61E D@ E92E E96 C9FC49 @7 E?8=2?5 :D 23=6 E@ C676C E@ 2 D:?8=6 5@4F>6?E D6EE:?8 @FE 2 E96@=@8J @7 C9C:DE:2?P 6H:D9 C6=2E:@?D E92E 244@C5D H:E9 :ED 5@4EC:?6,

C6=2E6 E@ AC24E:42=BF6DE:@?D 23@FE C9C:DE:2? =76 2?5 AF3=4 >:?:DECJ.

IE :D 9@A65 E92E E96 5@4F > 6?E 42? 36 2 C6D@FC46 7@C C67=64E:@? 2?5

5:D4FDD:@? :? C9C:DE:2? 4@ > > F?:E:6D, 2D H6= 2D 2 A@:?E @7 C676C6?46 7@C

E9@D6 H:E9 C6DA@?D:3:=EJ 7@C E6249:?8, AC6249:?8 2?5 4@?8C682E:@?2==76.

*96 D:1 492AE6CD 2C6 5:G:565 :?E@ EH@ >2:? A2CED, \$*96@=@8:42=FC2>6H@C<DI

E96 A?8=:42? C@>>F?:@? H:E9 @E96C 8=@32=4@>>F?:@?D. F@C 4@?G6?:6?46. E96J 2C6 =:DE65 36=@H.

- *96 C9C:DE:2?P 6H:D9 C6=2E:@?D9:A :D 2 8:7E @7 G@5 E@ E96 C9FC49, E@ 36 C646:G65 H:E9 42C6, C6DA64E 2?5 8C2E:EF56, D@ E92E H6 >2J =62C? >@C6 7F=J 23@FE G@5TD AFCA@D6D 7@C FD 2?5 2= E96 H@C=5.
- *(FE97F=E9:?<:?8 2?5 C:89E 24E:?8 H:E9 C682C5 E@ C9C:DE:2?P 6H:D9 C6=2E:@?D 7@=@H 7C@> SE96 72:E9 H9:49 :D C6G62=65 :? E96 H@=J) 4C:AEFC6D 2?5 D6E 7@CE9 :? E96 42E9@=:4 4C665D 2?5 E@ H9:49 E96 9:DE@C:4 7@C>F=2C:6D @7 E96 C9FC49 @7 E?8=2?5 362C H:E?6DDT. *96J 5@ ?@E F?56C>:?6 :E.
- C9C:DE:2?D 92G6 366? 8F:£J @7 AC@>@E:?8 2?5 7@DE6C:?8 ?682E:G6
 DE6C6@EJA6D @7 6H:D9 A6@A=6 E92E 92G6 4@?EC:3FE65 E@ 8C2G6
 DF776C:?8 2?5 :?;FDE:46. *96J 92G6 2 5FEJ E@ 36 2=6CE E@ E96
 4@?E:?F2E:@? @7 DF49 DE6C6@EJA:?8 2?5 E@ C6D:DE :E.

Рт

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ffir a ions

F52:D> 92D 4@?F:?F65 F@ 36 2 =G:?8 2?5 56G6=@A:?8 C6=8:@? @G6C F96 FH@ >:=6??:2 D:?46 F96 6>6(86?46 @7 C9(:DF:2?:E.L. JF ?665D F@ 36 F?56CDE@@5 :? E96 =:89E @7 E9:D 9:DE@CJ 2?5 @7 :ED 4@?E6 > A@C2CJ (62=EJ. F52:D > :D 5:776(6?E7(@ > C9C:DE:2?:EJ :?7F?52 > 6?E2=H2JD.2?5 2AAC64:2E:@? 7@C 6H:D9 D6=7-F?56CDE2?5:?8 :D 6DD6?E:2= 7@C C9C:DE:2? 5:2=@8F6 H:E9 6H:D9 A6@A=6. C9C:DE:2?D 92G6 :? E96 A2DE C6A62F65 2?5 AC@>@F65 ?682E;G6 DE6C6@EJA6D @7 6H;D9 A6@A=6. E96C63J 4@?EC:3FE:?8 E@ 8C2G6 DF776C:?8 2?5 :?:FDE:46. *96J 92G6 FD65 C9C:DE:2? 5@4EC:?6 :? @C56C E@ :FDE:7J 2?5 A6CA6EF2E6 6H:D9 DF776C:?8, 7@C:?DE2?46 E6249:?8 E92E 6H:D9 A6@A=6 2C6 DF776C:?8 2?5 D9@F=5 DF776C 3642FD6 E96J 2C6 8F:+LJ @7 E96 > FC56C @7 C9C:DE, E96 5:G:?6)@? @7 G@5, @C 3642FD6 E96J 92G6 C67FD65 E@ H6=4@>6 E96 #6DD:29. &C@>@E:@? @7 H92E 92D 366? 42=65 \$E96 E6249:?8 @7 4@?E6>AFI 92D 7@DE6C65 2EE:EF56D @7 5:DECFDE 2?5 9@DE:=EJ 2>@?8 C9C:DE:2?D E@H2C5D E96:C 6H:D9 ?6:893@FCD, :? D@>6 42D6D =625:?8 E@ G:@=6?E 2EE24<D, >FC56C 2?5 61AF=D:@?. (6A6?E2?46 7@C E96 D:?D @7 E96 A2DE >62?D 2 4@>>:E>6?E E@ H2< :? ?6H?6DD @7 =76 E@52J 2?5 F@ C6:64E DF49 >:DFD6D @7 C9C:DE:2? 5@4EC:?6.

T ar ings of a s

) 49@=2C=J C6D62C49, A2CE:4F=2C=J D:?46 E96) 64@?5 - @C=5 - 2C, 92D 5@?6 >F49 E@ 4@?7:C> 2?5 4=2C:7J E96 9:DE@C:42= C@@E65?6DD @7 C9C:DE:2?:EJ :?

T eological Frameworks

E96 5:G6CD:EJ @7 7:CDE-46?EFCJ F52:D> 2?5 E96 61E6?E @7 E96 :?E6C24E:@? 36EH66? 6HD 2?5 C9C:DE:2?D :? E96 7@=@H:?8 46?EFC:6D. *96 DEF5J @7 E96 D625) 62) 4C@=D, E96 &D6F56A:8C2A92 (A2CE:4F=2C=J E96 AA@42=JAE:4 HC:E:?8D) 2?5 E96 2C4926@=@8J @7 &2=6DE:?6¹5 :? E96) 64@?5 *6>A=6 A6C:@5 92D E9C@H? 2 7=@65 @7 =:89E @? F52:D> :? E96 E:>6 @7 6DFD.¹6 IE :D 23F?52?E=J 4=62C E92E E96) 4C:AEFC6D E96? 4FCC6?E H:E9:? F52:D> H6C6 @7 A2C2>@F?E :>A@CE2?46 7@C C9C:DE:2? @C:8:?D, 2?5 E92E E96 7:CDE 86?6C2E:@? @7 C9C:DE:2?D, H9@ H6C6 7@C E96 >@DE A2CE 6HD @C G6?E:=6D 2=C625J E@ D@>6 61E6?E 72>:=2C H:E9 F52:D>, C625 E9@D6) 4C:AEFC6D E9C@F89 E96 =6?D @7 E96 F52:D> @7 E96:C 52J. H:DE@C:42=J DA62<:?8, C9C:DE:2?:EJ 8C6H @FE @7 E96 C:49 2?5 G2C:65 H@C=5 @7 =2E6) 64@?5 *6>A=6 F52:D>. I? @C:8:? :E H2D @?6 @7 E96 > 2?J 7@C>D @7 F52:D> @7 :ED E:>6, 2?5 :E 5C6H AC@7eF?5=J @? E96 F52:D> H:E9:? H9:49 :E @C:8:?2E65 7@C :ED F?56CDE2?5:?8 @7 G@5, 9F>2?:EJ 2?5 C656>AE:@?.

) 49@=2C=J C6D62C49 92D 2+D@ 4=2C:7:65 E96 9:DE@C:42=@C:8:?D @7 F52:D>
2D H6 <?@H :E E@52J. A 4C:E:42=A6C:@5 :? :ED 56G6=@A>6?E @44FCC65 27E6C
E96 56DECF4E:@? @7 E96 *6>A=6 :? AD 70, H96?, F?56C E96 =6256CD9:A @7
AC@>:?6?E &92C:D66D, E96 (233:?:4 >@G6>6?E 2C@D6. *96 :?7=F6?46
@7 E9:D >@G6>6?E 2>@?8 6HD :? &2=6DE:?6 8C6H DE625:=J @G6C E96
7@=@H:?8 46?EFC:6D. IE DF776C65 8C:6G@FD=J 5FC:?8 E96) 64@?5 6H:D9 - 2C
282:?DE (@>6 @7 132P135 (E96 B2C ! @<932 C6G@=E), H96?, 244@C5:?8 E@
EC25:E:@?, 2 ?F > 36C @7 =625:?8 C233:D H6C6 > 2CEJC65. AE E96 6?5 @7 E96
H2C, E96 E>A6C@C H25C:2? 2EE6 > AE65 E@ 6C2D6 E96 A@=E:42=:56?E:EJ @7 E96
6HD 3J 32??:?8 E96 > 7C@> 6CFD2=6 >, 2?5 C67@F?5:?8 :E 2D 2 A282? 4:EJ
565:42E65 E@ FA:E6C (42=65 A6=2 C2A:E@=?2). \$6G6CE96=6DD, E96 (233:?:4 >@G6 > 6?E DFCG:G65 2?5 C64@G6C65, H:E9 G2==66 6 > 6C8:?8 2D @?6 @7 :ED
>@DE D:8?:7:42?E 46?EC6D.) 6G6?EJ J62CD =2E6C :E AC@5F465 E96 #:D9?29
:? :ED 7:?2=7@C >, E96 7@F?52E:@? 5@4F > 6?E @7 (233:?:4 F52:D >, H9:49,

E@86E96C H:E9 :ED 4@>>6?E2CJ :? E96 *2=>F5, :D E96 DE2CE:?8 A@:?E 7@C 9@H :E F?56CDE2?5D E96 *@C29 (E96 7:CDE 7:G6 3@@<D @7 E96 B:3=6, D@>6E:>6D 42=65 E96 &6?E2E6F49 3J D49@=2CD).

*9:D 9:DE@C:42=2?2=JD:D 92D :>A@CE2?E :>A=:42E:@?D. IE DF886DED E92E F52:D> 2D 6?4@F?E6C65 E@52J P 32D65 :? DJ?28@8F6D C2E96C E92? :? E96 6CFD2=6 > *6 > A=6, =65 3J C233:D C2E96C E92? AC:6DED. 7@=@H:?8 E96 #:D9?29, :ED 4@>>6?E2C:6D, 2?5 E96 8C62E =2H 4@56D (DF49 2D E96) 9F=492? ACF49) P 6>6C865 2E C@F89=J E96 D2>6 E:>6 2D C9C:DE:2?:EJ. ":<6 C9C:DE:2?:EJ.:E [@@ 2C@D6 @FE @7) 64@?5 *6>A=6 F52:D>. *9@F89 E96 4=2DD:4 HC:E:?8D @7 (233:?:4 F52:D> (E96 #:D9?29, *2=>F5 2?5 E96 B:3=6 4@>>6?E2C:6D <?@H? 2D E96 #:5C2D9:>) 42? 36 C625 H:E9 AC@7:E 3J C9C:DE:2?D 2?5 C64@8?:K65 2D H@C<D @7 8C62E DA:C:EF2=H:D5@> 2?5 A@H6C. 2?5 E9@F89 E96J 4@?EC:3FE6 :?5:C64E=J E@ @FC 9:DE@C:42=F?56CDE2?5:?8 @7 C9C:DE:2? @C:8:?D, E96 F52:D> :? H9:49 C9C:DE:2?:EJ :D C@@E65 :D ?@E (233:?:4 F52:D>. (2E96C, (233:?:4 F52:D> 2?5 C9C:DE:2?:EJ D92C6 4@>>@? C@@ED:? 3:3:42=2?5)64@?5*6>A=6 F52:D>. (233:?:4 F52:D>4@?D4:@FD=J 4=2:>65 4@?E:?F:EJ H:F9 EC25:E:@?D @7 6H:D9 E6249:?8 E92E H6C6 24E:G6=J 56G6=@A:?8 367@C6 E96 56DECF4E:@? @7 E96 *6 > A=6 :? AD 70 2?5 D2H :ED6=7 2D DE2?5:?8 :? 5:C64E DF446DD:@? 7C@> E96 F52:D> @7 :>>65:2E6=J AC6465:?8 86?6C2E:@?D.) F49 2 4=2:> :D ?@E >256 :? E96 D2>6 H2J @7 E96 G6?E:=6->2:@C:EJ C9FC49 7C@> E96 D64@?5 46?EFCJ @?H2C5D.

A4256>:4 2?2=JD:D 92D 2 A2CE E@ A=2J :? 6H:D9PC9C:DE:2? 5:2=@8F6.

IE 492=6?86D 3@E9 D:56D C682C5:?8 E96:C :?96C:E65 F?56CDE2?5:?8 @7
E96:C 9:DE@CJ 2?5 @C:8:?D. *C25:E:@?2=J, 6249 92D D66? :ED6=7 2D E96 ECF6
:?E6CAC6E6C @7 E96) 4C:AEFC6D @7 IDC26= (H92E E96 C9FC49 42=D E96 %=5
*6DE2>6?E 2?5 F52:D> E96 *2?2<9), 2?5 2D C6AC6D6?E:?8 E96 2FE96?E:4
=:?6 @7 56G6=@A>6?E 7C@> E96> P 2D 36:?8 E96 @?=J =68:E:>2E6 DF446DD@C

T eological Frameworks

2?5 E96C67@C6 E96 \$ECF6T IDC26=. H:DE@C:42=D49@=2CD9:A C2:D6D BF6DE:@?D 2D E@ E96 32D:D @7 DF49 4=2:>D. D:2=@8F6 H@F=5 36 6?92?465 3J 61A=@C:?8 E@86E96C E96 492=6?86D A@D65 3J 4@?E6>A@C2CJ 24256>:4 C6D62C49.

*96 AC@46DD 3J H9:49 F52:D> 2?5 C9C:DE:2?:EJ 6>6C865 2D E96@=@8:42=J 2?5 :?DE:EFE:@?2=J D6A2C2E6 C6=8:@?D (@7E6? C676CC65 E@ 2D SE96 A2CE:?8 @7 E96 H2JDT), H2D 4@>A=42E65 2?5 \$>6DDJT.17 *96C6 H2D ?@ 567:?:?8, D:?8=6 >@>6?E H96? E96 DA=E @44FCC65. (@>2? :>A6C:2=A6CD64FE:@? >2J E@ D@>6 6IE6?E 92G6 D6CG65 E@ 2446=6C2E6 4@>>F?:EJ 5:G:D:@?D. *96 D6A2C2E:@? 92AA6?65 2E 5:776C6?E E:>6D 2?5 E@ G2CJ:?8 568C66D :? 5:776C6?E A=246D, 24C@DD E96 72C-7=F?8 6H:D9 D:2DA@C2, H9:49 :? =2E6 2?E:BF:EJ DEC6E4965 7C@>) A2:? E@ &6CD:2. \$6G6CE96=6DD, 2? :>A@CE2?E EFC?:?8-A@:?E @44FCC65 :? E96 7@FCE9 46?EFCJ, H:E9 E96 A@=E:42=EC:F>A9 @7 C9C:DE:2?:EJ F?56C C@?DE2?E:?6. *9:D C6DF=65 :? E96 567:?:E:@? @7 C9C:DE:2?:EJ 2?5 F52:D> 2D 5:776C6?E C6=8:@?D :? (@>2? =2H.

*96 7@FCE9 46?EFCJ 2=D@ AC@323=J H:E?6DD65 E96 64=:AD6 7@C > 2?J 46?EFC:6D @7 H92E :D D@ > 6E: > 6D C676CC65 E@ 2D \$ 6H:D9 C9C:DE:2?:EJT, E92E :D, 6H:D9 7@=@H6CD @7 6DFD H9@ < 6AE 5:DE:?4E:G6 6H:D9 4FDE@ > D, DF49 2D 4:C4F > 4:D:@?, 5:6E2CJ C68F=2E:@?D 2?5) 2332E9 @3D6CG2?46. AD 2 7@C > @7 C6=8:@FD AC24E:46 2?5 36=67, DF49 6H:D9 C9C:DE:2?:EJ H2D C6;64E65 3J (233:?:4 F52:D > 2?5 G:6H65 H:E9 566A DFDA:4:@?, :7 ?@E @FEC:89E 9@DE:=EJ, 3J @CE9@5@I C9C:DE:2?:EJ. F62CD 23@FE E96 C6E6?E:@? @7 6H:D9 4FDE@ > D 3J 4@?G6CED E@ C9C:DE:2?:EJ = 65 E@ E96 6DE23=D9 > 6?E @7 E96) A2?:D9 I?BF:D:E:@? :? 1480, H9:49 4@?E:?F65 E@ :?G6DE:82E6 DF49 42D6D F?E:= 1700 2?5 3FC?E 2=G6 E9@D6 :E 566 > 65 E96 H@CDE @776?56CD. *92E E6CC:3=6 6A:D@56 2=D@, 9@H6G6C, F?56C=?6D E96 A@:?E E92E E96 C9FC49 92D ?6G6C 366? H:E9@FE 6H:D9 > 6 > 36CD. &2F=D G:D:@? @7 E96 @?6 3@5J @7 C9C:DE F?:E:?8 6HD 2?5 G6?E:6D 92D ?6G6C 366? H9@=J 64=AD65, 9@H6G6C > F49 :E 92D 366? 52C<6?65. - 92E 92D 492?865 @G6C E96 A2DE

EH@-9F?5C65 J62CD, 9@H6G6C, :D E92E @?46 282:? E96C6 2C6 8C@FAD 4=2:>:?8 3@E9 2 6H:D9 2?5 2 C9C:DE:2? :56?E:EJ: 6>3C24:?8 5:DE:?4E:G6=J C9C:DE:2? 36=67D H9:=6 2=D@ AC24E:D:?8 5:DE:?4E:G6=J 6H:D9 4FDE@>D, 2D A6@A=6 H9@ AF3=:4=J 567:?6 E96>D6=G6D 2D 6H:D9 36=6G6CD :? 6DFD C9C:DE. *9:D :D 2 D:8?:7:42?E 56G6=@A>6?E 7@C C9C:DE:2?:EJ 2?5 7@C C9C:DE:2?P 6H:D9 5:2=@8F6, H9:=6 :E 2=D@ C2:D6D >2?J BF6DE:@?D E92E =:6 @FED:56 E96 D4@A6 @7 E9:D 5@4F>6?E.18

):?46 2E =62DE E96 7@FCE9 46?EFCJ, C9C:DE:2?:EJ 2?5 F52:D > 92G6 366?
D6A2C2E65 C6=8:@?D, H9:49 92G6, E@ 2 D:8?:7:42?E 568C66, 567:?65
E96 > D6=G6D @G6C 282:?DE 6249 @E96C. E249 92D :ED @H? 5:DE:?4E:G6
E96@=@8:42= H@C=5 G:6H (E9@F89 E96C6 2C6 :>A@CE2?E @G6C=2AD, 7@C 612 > A=6,
:? 6D492E@=@8J), :ED @H? 2FE9@C:E2E:G6 E61ED (E9@F89 282:? H:E9 2? :>A@CE2?E
D92C65 6=6 > 6?E P E96 %=5 *6DE2 > 6?E/*2?2<9), :ED @H? A=246D @7 H@CD9:A

E@:??I=6?46 E96 @E96C, 7@C C62D@?D E92E :?4=F565 A@D:E:G6 2AAC64:2E:@? 2D H6=2D 6?5FC:?8 4@>A6E:E:@? 2?5 2DD6CE:@? @7 4=2:>D E@ D@=6 =68:E:>24J.¹⁹ F@C 612>A=6, E96) 2?4EFD, 2? :>A@CE2?E 6=6>6?E @7 E96 EF492C:DE/#2DD, AC@323=J 8@6D 324< E@ 2? 62C=J 7@C> @7 E96) J?28@8F6 ' 65FD929, H9:49, =<6 :E, 6?G:D286D E96 H@CD9:AA:?8 4@>>F?:EJ @? 62CE9 ;@:?:?8 H:E9 E96 2?86=D :? 962G6? E@ AC2:D6 2?5 H@CD9:A G@5. *96 A2C2=6=D 36EH66? E96) 2?4EFD 2?5 E96 ' 65FD929 2C6 6G6? >@C6 DEC:<:?8 :? E96 =EFC8:6D @7 E96 E2DE6C? C9FC496D (7@C 612>A=6 :? E96 A?2A9@C2D @7 E96) JC:24 EC25:E:@?) E92? :? E96 "2E:? - 6DE, H96C6 E96 E61E :D C2E96C D9@CE.

*96C6 :D 6G:56?46 @7 E96 :?7=F6?46 @7 C9C:DE:2? :562D @? E96 6H:D9 > JDE:42=EC25:E:@?, 7@C 612>A=6 @? E96 >65:6G2=) A2?:D9 6H:D9 H@C<, E96 B@@< @7) A=6?5@FC (E96 /@92C), H9:49 92D AC@7@F?5=J D92A65 6H:D9 E96@=@8J 2?5 =:EFC8J.²⁰ 6H:D9 F?56CDE2?5:?8D @7 E96 >62?:?8 @7 E96

ris iani and an is i is

*96 E6C > \$2?E:D6 > E:D > I :D 2 C6=2E:G6=J C646?E @?6. IE H2D 7:CDE 4@:?65 :?

1860²⁵ 2?5 42 > 6 :?E@ > @C6 4@ > >@? FD286 5F6 E@ E96 H@C < @7 - :=96=>

#2CC H9@ 7@F?565 2 "628F6 @7 A?E:D6 > :E6D :? 1891. AEE6 > AE65

567:?E:@?D 2C6 @7E6? 4@?E6DE65. I? 2016 E96 +! 8@G6C? > 6?E 25@AE65 E96

7@=@H:?8 H@C <:?8 567:?:E:@?, 56G6=@A65 3J E96 I?E6C?2E:@?2= H@=@42FDE

(6 > 6 > 3C2?46 A=:2?46 (IH (A): \$A?E:D6 > :E:D > :D 2 46CE2:? A6C46AE:@? @7

6HD, H9:49 > 2J 36 61AC6DD65 2D 92EC65 E@H2C5 6HD. (96E@C:42=2?5

A9JD:42= > 2?:76DE2E:@?D @7 2?E:D6 > :E:D > 2C6 5:C64E65 E@H2C5 6H:D9 @C

?@?- 6H:D9 :?5:G:5F2=D 2?5/@C E96:C AC@A6CEJ, E@H2C5 6H:D9 4@ > > F?:EJ

:?DE:EFE:@?D 2?5 C6=8:@FD 724:=E:6D.T²⁶ *96 IH (A E96? DE2E6D E92E \$E@ 8F:56 IH (A :? :ED H@C <, E96 7@=@H:?8 612 > A=6D > 2J D6CG6 2D :=FDEC2E:@?DI:

#2?:76DE2E:@?D >:89E :?4=F56 E96 E2C86E:?8 @7 E96 DE2E6 @7 IDC26=, 4@?46:G65 2D 2 6H:D9 4@=64E:G:EJ. H@H6G6C, 4C:E:4:D > @7 IDC26=D: >:=2C E@ E92E =6G6=65 282:?DE 2?J @E96C 4@F?ECJ 42??@E 36 C682C565 2D 2?E:D6 >:E:4. A?E:D6 >:E:D > 7C6BF6?E=J 492C86D 6HD H:E9 4@?DA:C:?8 E@ 92C > 9F > 2?:EJ, 2?5 :E :D @7E6? FD65 E@ 3=2 > 6 6HD 7@C \$H9J E9:?8D 8@ HC@?8I. IE :D 61 AC6DD65 :? DA6649, HC:E:?8, G:DF2=7@C > D 2?5 24E:@?, 2?5 6 > A=@JD D:?:DE6C DE6C6@EJA6D 2?5 ?682E:G6 492C24E6C EC2:ED.

C@?E6>A@C2CJ 612>A=6D @7 2?E:D6>:E:D> :? AF3=4 =76, E96 >65:2, D49@@=D, E96 H@C<A=246, 2?5 :? E96 C6=8:@FD DA96C6 4@F=5, E2<:?8 :?E@ 244@F?E E96 @G6C2= 4@?E61E, :?4=F56, 3FE 2C6 ?@E =:>:E65 E@:

• C2=:?8 7@C, 2:5:?8, @C;FDE:7J:?8 E96 <:=:?8 @C 92C>:?8 @7 6HD :? E96 ?2>6 @7 2 C25:42=:56@=@8J @C 2? 6JEC6>:DE G:6H @7 C6=:8:@?.

T eological Frameworks

- #2<:?8 >6?524:@FD, 569F >2?:K:?8, 56 >@?:K:?8, @C
 DE6C6@EJA:42= 2=682E:@?D 23@FE 6HD 2D DF49 @C E96 A@H6C @7
 6HD 2D 4@=64E:G6 P DF49 2D, 6DA64:2=J 3FE ?@E 614=FD:G6=J, E96
 >JE9 23@FE 2 H@C=5 6H:D9 4@?DA:C24J @C @7 6HD 4@?EC@=:?8
 E96 >65:2, 64@?@>J, 8@G6C?>6?E @C @E96C D@4:6E2=:?DE:EFE:@?D.
- A44FD:?8 6HD 2D 2 A6@A=6 @7 36:?8 (6DA@?D:3=6 7@((62=@(:>28:?65 HC@?85@:?8 4@>>:EE65 3J 2 D:?8=6 6H:D9 A6CD@? @(8C@FA, @(6G6? 7@(24ED 4@>>:EE65 3J ?@?- 6HD.
- D6?J:?8 E96 724E, D4@A6, >6492?:D>D (6.8. 82D 492>36CD)
 @C :?E6?E:@?2=EJ @7 E96 86?@4:56 @7 E96 6H:D9 A6@A=6 2E E96
 92?5D @7 \$2E:@?2=)@4:2=DE G6C>2?J 2?5 :ED DFAA@CE6CD 2?5
 244@>A=:46D 5FC:?8 @C=5 2C II (E96 H@=@42FDE).
- A44FD:?8 E96 6HD 2D 2 A6@A=6, @C IDC26= 2D 2 DE2E6,
 @7:?G6?E:?8 @C 612886C2E:?8 E96 H@=@42FDE.
- A44FD:?8 6H:D9 4:E:K6?D @7 36:?8 > @6 =@J2= E@ IDC26=,
 @6 E@ E96 2=6865 A6:@6:E:6D @7 6HD H@6=5H:56, E92? E@ E96 :?E666DED @7 E96:6 @H? ?2E:@?D.
- D6?J:?8 E96 6H:D9 A6@A=6 E96:C C:89E E@ D6=7-56E6C>:?2E:@?,
 6.8., 3J 4=2:>:?8 E92E E96 61:DE6?46 @7 2) E2E6 @7 IDC26=:D
 2 C24:DE 6?562G@C.
- AAA=J:?8 5@F3=6 DE2?52C5D 3J C6BF:C:?8 @7 :E 2 3692G:@C
 ?@E 61A64E65 @C 56>2?565 @7 2?J @E96C 56>@4C2E:4 ?2E:@?.
- +D:?8 E96 DJ > 3@-D 2?5 : > 286D 2DD@4:2E65 H:E9 4=2DD:4
 2?E:D6 > :E:D > (6.8., 4=2: > D @7 6HD <: =:?8 6DFD @C 3=@@5 =:36=)
 F@ 492C24F6C:K6 IDC26= @C IDC26= D.

- DC2H:?8 4@>A2C:D@?D @7 4@?E6>A@C2CJ IDC26=: A@=:4J E@ E92E
 @7 E96 \$2K:D.
- H@=5:?8 6HD 4@=64E:G6=J C6DA@?D:3=6 7@C 24E:@?D @7 E96 DE2E6
 @7 IDC26=.

*96 C9F(49 @7 E?8=2?5TD C@=686 @7 B:D9@AD 2446AE65 E96 IH (A 567:?:E:@? @7 2?E:D6>:E:D> H:E9 :ED 612>A=6D :?)6AE6>36C 2018, 2?5 E9:D 5@4F>6?E @7 E96 F2:E9 2?5 %C56C C@>>:DD:@? 2=D@ 277:C>D :ED G2=F6 7@C :56?E:7J:?8 2?E:D6>:E:D> :? E96 4@?E6>A@C2CJ 4@?E61E. *96 612>A=6D 9:89=:89E E96 H2J E92E 2?E:D6>:E:D> E6?5D E@ H62G6 E@86E96C 7@FC

T eological Frameworks

324< F@ 2 9:DF@CJ @7 E8JAE <?@H? 2D E96 A! #5, 0%aca, HC:EE6? :? GC66< 3J 2? E8JAE:2? AC:6DE 42=65 #2?6E9@ H9@ =G65 :? E96 E9:C5 46?EFCJ BC.28 *96 H6=6?:K2E:@? @7 E96 #65:E6CC2?62? AC@>@E65 GC66< D@4:6EJ, C6=8:@? 2?5 :562D 2D 4F=FC65; F52:D> H2D D66? 2D 36:?8 2E @55D H:E9 E9:D. *96 23:=EJ @7 2?E:D6>:E:D> F@ C6-6>6C86 2E 5:776C6?E A6C:@5D 2?5 :? 5:776C6?E A=246D 27E6C 2AA2C6?E BF:6D46?46 =65 E@ C@?@C CCF:D6 %IBC:6?ID 72>@FD 56D4C:AE:@? @7 :E 2D \$2 G6CJ =89E D=66A6CI.

*96 C6=2E:@?D9:A 36EH66? 2?E:D6>:E:D> 2?5 C9C:DE:2?:EJ 92D 366? >F49 5632E65.)@>6 92G6 2C8F65 E92E C9C:DE:2?:EJ :D 2E C@@E 2?E:D6>:E:A.29)@>6 H@F=5 7:?5 E96 D665D @7 C9C:DE:2? 2?E:D6>:E:D> H:E9:? E96 \$6H *6DE2>6?E :ED6=7, 7@C :?DE2?46 :? E96 >2??6C :? H9:49 :E C6AC6D6?ED 6H:D9 @AA@D:E:@? E@ 6DFD 2?5 E96? E@ E96 62C=J C9FC49, :? E96 2AA2C6?E =:?<286 36EH66? @365:6?46 E@ E96 "2H 2?5 D=2G6CJ E@ D:? 2?5 562E9 E92E 2AA62CD :? D@>6 A2DD286D :? &2F=, 2?5 :? E96 :?D:DE6?46 @7 E96 =6EE6C E@ E96 H63C6HD E92E E96 4@G6?2?E 8:G6? E9C@F89 #@D6D 92D ?@H 8C@H? @=5.30 AD H:= 36 7FCE96C 5:D4FDD65 :? C92AE6CD 2 2?5 4 :? A2CE:4F=2C, 9@H6G6C, E96C6 2C6 D:8?:7:42?E BF6DE:@?D 23@FE H96E96C DF49 4=2:>D 2C6 DFAA@CE65 3J 3:3::42=:?E6CAC6E2E:@?.

*96 HC:E:?8D @7 D@ > 6 62C=J E96@=@8:2?D 42? 2=D@ 36 4:E65 2D 6G:56?46 7@C E96 566A 6 > 3655:?8 @7 2?E:D6 > :E:D > :? C9C:DE:2? E9@F89E 2?5 3692G:@FC. *96 DFCG:G:?8 H@C<D @7 @9? C9CJD@DE@ > 7C@ > E96 =2E6 7@FCE9 46?EFCJ, 7@C :?DE2?46, :?4=F56 2 D6C:6D @7 9@ > :=6D E@ C9C:DE:2?D :? A?E:@49 HC:EE6? E@ 6?4@FC286 E96 72:E97F=E@ C67C2:? 7C@ > 6?828:?8 H:E9 6HD 2?5 F52:D > . I? DEC@?8 =2?8F286, C9CJD@DE@ > 56D4C:36D DJ?28@8F6D 2D 56?D @7 :?:BF:EJ 2?5 E9C62E6?D E9@D6 H9@ 2EE6?5 E96 > H:E9 5:G:?6 ;F586 > 6?E. *92E > 2J H6= 92G6 :?4=F565 D@ > 6 > 6 > 36CD @7 9:D @H? 4@?8C682E:@?, :?5:42E:?8 E92E ?@E 6G6CJ@?6 2E E9:D A@:?E D2H C9C:DE:2? 2?5 6H:D9 :56?E:E:6D 2D > FEF2=J 614=FD:G6.

T eological Frameworks

DJ>A2E96E:42=J 23@FE 6HD, 9@A:?8 E92E E96J H@F-5 2AAC64:2E6 9:D C67@C>:?8 677@CED 2?5 36 4@?G6CE65 E@ C9C:DE:2?:EJ, 42>6 E@ 56D4C:36 E96> 2D 56>@?:4 2?5 42=65 7@C E96 3FC?:?8 @7 DJ?28@8F6D.³²

E?8=2?5 925 :ED @H? (@=6 :? E9:D 9:DE@CJ, H:E9 2 4=2: > E@ 36:?8 E96 3:CE9A=246 @7 H92E 3642 > 6 <?@H? 2D E96 \$3=@5 \pm 36=I, H96C63J 6HD H6C6 72=D6=J 244FD65 @7 > FC56C:?8 C9C:DE:2? 49: \pm 5C6? E@ >2<6 &2DD@G6C >2EK@E H:E9 E96:C 3=@65. \pm 33 *96C6 :D D@ > 6 6G:56?46 @7 E96@=@8:42= 5:D4FDD:@? 36EH66? C9C:DE:2?D 2?5 6HD :? E96 EH6=7E9 46?EFCJ, 2?5 @7 4@?46CE65 2EE6 > AED E@ AC@ > @E6 6H:D9 4@?G6CD:@? E@ C9C:DE:2?:EJ :? E96 E9:CE66?E9. I? 1290, 9@H6G6C, E?8=2?5 3642 > 6 E96 7:CDE 4@F?ECJ E@ @C56C E96 6?E:C6 6H:D9 4@ > > F?:EJ E@ \pm 62G6, E96C63J D66<:?8 E@ 36 2 C9C:DE:2? E6CC:E@CJ H:E9 ?@ 6H:D9 AC6D6?46.

%? F96 @F96C 92?5, D@>6 C9C:DE:2?D :? E?8=2?5 2D 6=D6H96C6 :? EFC@A6, :?4=F5:?8 F9@D6 :? A@D:E:@?D @7 2FF9@C:EJ 2?5 =6256CD9:A, @AA@D65 DF49 G:@=6?E 24E:@? 282:?DE 6H:D9 4@>>F?:E:6D. - 9:=6 F96C6 H:= 92G6 366? 2 G2C:6EJ @7 C62D@?D 2?5 >@E:G2E:@?D 2E H@C<, :?4=F5:?8 > 2?:76DE2E:@?D @7 H92E > 2J 36 F6C>65 \$A9:=@D6>:E:D>T, F96C6 H2D 2=D@ 2 C64FCC6?E 2DD6CE:@? E92E 6H:D9 DFCG:G2= H2D F96 H:= @7 G@5, 2?5 F96C67@C6 AC@E64E:@? @7 6H:D9 4@>>F?:E:6D H2D E96 5FEJ @7 C9C:DE:2? CF=6CD. *9:D H2D DE:=C68F=2C=J 244@>A2?:65, 9@H6G6C, 3J F96 :562 F92E F96:C AF?:D9>6?E 3J G@5 7@C 5:D@365:6?46 D9@F=5 2=D@ 36 6G:56?E :? F96:C D@4:2=2?5 A@=E:42=DE2FFD, D@ F92E F96J D9@F=5 36 3@F9 AC@E64E65 2?5 56AC:G65 @7 A@H6C, H62=9 2?5 @AA@CEF?:EJ D@ 72C 2D A@DD:3=6. H6C6 E@E96 F?56C=J:?8 A2EE6C? @7 2?E:D6>:E:D>, H:E9 :ED :>A=:65 5FEJ E@ C6DEC:4E 6H:D9 :?7=F6?46 (A286 11 23@G6), >2J 36 D66? E@ C64FC.

F=6D ID224, H9@ HC@E6 @? 6H:D9PC9C:DE:2? C6=2E:@?D :? E96 27E6C>2E9 @7 E96)64@?5 - @C=5 - 2C, D2H 2 AC@7@F?5 =:?< 36EH66? 9:DE@C:4 C9C:DE:2?

2?E:- F52:D > 2?5 E96 6CFAE:@? @7 2?E:D6 >:E:D > :? E96 EH6?E:6E9 46?EFCJ.³⁴ 17 E96 7:CDE AC6 >:D6 @7 2?E:D6 >:E:D > :D E96 A6C46AE:@? E92E \$E96C6 :D D@ > 6E9:?8 :?96C6?E=J HC@?8 H:E9 E96 6HD 2D 2 A6@A=6I, E96? EC25:E:@?2= C9C:DE:2? E6249:?8 E92E E96 6H:D9 A6@A=6 2C6 4@=64E:G6=J C6DA@?D:3=6 E9C@F89@FE E: > 6 7@C E96 562E9 @7 E96 5:G:?6 C9C:DE, 2?5 E96C67@C6 8F:=LJ E@86E96C @7 56:4:56, :> 3F6D :E H:E9 2 E6CC:3=6 A@H6C. ID224 4@:?65 E96 A9C2D6 \$E96 E6249:?8 @7 4@?E6 > AEI (enseignement du m"pris) E@ 56D4C:36 H92E 96 D2H 2D <6J 762EFC6D @7 C9C:DE:2?:EJID DFDE2:?65 9@DE:=EJ E@ F52:D > 7C@ > 62C=6DE E:>6D.

(682C5:?8 E96 6H:D9 A6@A=6 2D 4@=64E:G6=J 8F:\(\) &7 C6;64E:?8 G@5TD 2?\(\) &7 C9C:DE: 2?D E\(\) C682C5 6H:D9 DF776C:?8 2D 5:G:?6=J H:\(\) &67 AF?:D9 > 6?E. - 9:\(\) &7 C9C:DE: 2?D E\(\) C682C5 6H:D9 DF776C:?8 2D 5:G:?6=J H:\(\) &67 AF?:D9 > 6?E. - 9:\(\) &7 C9E:DE: 2?D E\(\) C682C5 6H:D9 4\(\) &7 4\(\) &7 DE: E92E E96J 925 2 A\(\) &D:E:G6 5FEJ E\(\) :74C62D6 E92E DF776C:?8, DF49 E6249:?8 :?6G:E23=J E6?565 E\(\) &3=\(\) &4< 2?\(\) D6?D6\(\) &7 \(\) &3=\(\) &82E:\(\) ? E\(\) C65F46:E, 2?5 E\(\) F?56C >:?6 D: > A=6 9F > 2? D\(\) D=:52C:EJ H:E9 6H:D9 ?6:893\(\) CD. *96 G\(\) &DA6=D, 2?5 :? A2CE:\(\) AF=2C E96:C &2DD:\(\) ?2CC2E:G6D, H6C6, 2D ?\(\) E65 23=\(\) &64E:G6 8F:\(\) &2:?DE 4\(\) &7E6 > A@C2CJ 6H:D9 4\(\) > > F?:E:6D.

*96 C6=2E:@?D9:A 36EH66? \$C6=8:@FDT 2?E:- F52:D > 2?5 \$C24:DET 2?E:D6 >:E:D > :D 2 4@ > A=61 @?6. H:DE@C:2?D 2?5 E96@=@8:2?D > 2J F?56CDE2?5 :E :? 5:776C6?E H2JD, 2D >@C6 @C =6DD 4=@D6, 3FE E96C6 4=62C=J :D 2 C6=2E:@?D9:A. A?E:D6 >:E:D > 6 > 6C865 2D 2 > 2;@C 4F=EFC2= >@G6 > 6?E :? EFC@A6 :? E96 =2E6C ?:?6E66?E9 46?EFCJ, :? 4@?E61ED H96C6 E96 49FC496D DE:= 96=5 2 5@ >:?2?E C@=6 A@=:E:42=J, D@4:2=J 2?5 4F=EFC2=J, 2?5 9:DE@C:4 C9C:DE:2? 2?E:- F52:D > H2D F?5@F3E65=J FD65 E@ 8:G6 =68:E: > 2E:@? E@ 2?E:D6 >:E:4 :562D 2?5 E96 2EE:EF56D 2?5 3692G:@FC E92E 7@=@H65 7C@ > E96 > . C9C:DE:2?D C6DA@?565 :? 5:776C6?E H2JD P D@ > 6, 7@C :?DE2?46, 3J

D66<:?8 E@ >2<6 E96 C9FC49 >@C6 H6=4@>:?8 E@ 6H:D9 4@?G6CED,
2?5 D@>6 3J DFAA@CE:?8 62C=J >@G6D E@ 6DE23=D9 2 6H:D9 9@>6=2?5
2?5 C67F86 7C@> A6CD64FE:@?. FC@> 2? 62C=J DE286, 2 D>2=?F>36C
@7 C9C:DE:2? E9:?<6CD H6C6 566A=J EC@F3=65 3J E96 C:D6 @7 2?E:D6>:E:D>
2?5 3J E96 H2J :E H2D :?E6CEH:?65 H:E9 C9C:DE:2? E6249:?8.35 IE 42??@E
36 56?:65, 9@H6G6C, E92E E96D6 C6AC6D6?E65 2 >:?@C:EJ G@:46 2E E96 E:>6.
*96 H:56DAC625 6>3C246 @7 2?E:D6>:E:D>, >@DE 6IEC6>6=J 3FE ?@E D@=6=J
:? \$2K: G6C>2?J, 2?5 E96 F?72E9@>23=6 6G:=@7 E96 H@=@42FDE >@G65
DF49 4@?46C?D E@H2C5D E96 >2:?DEC62>@7 E9:?<:?8 :? >2?J 49FC496D
:? E96 4@FCD6 @7 E96 EH6?E:6E9 46?EFCJ, A2CE:4F=2C=J 7C@> E96 1960D.36

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I? E96 >:5DE @7 E96 > 2DD A6CD64FE:@? 2?5 > FC56C @7 6HD :? E96 1930D 2?5 1940D, D@ > 6 C9C:DE:2? E96@=@8:2?D C6DA@?565 3J 277:C>:?8 E96 4@?E:?F:?8 6=64E:@? @7 E96 6H:D9 A6@A=6 2D A2CE @7 C9C:DE:2? E6249:?8. A D:8?:7:42?E 4@?EC:3FE:@? 96C6 H2D > 256 3J 2 > 6D &2C<6D, 2? A?8=42? 4=6C8J > 2? H9@D6 H@C< :? C@?E:?6?E2=EFC@A6 5FC:?8 E96 1920D 2?5 1930D =65 E@ 2 =:76=@?8 4@ > >:E > 6?E E@ E96 DEF5J @7 F52:D > 2?5 C9C:DE:2?P 6H:D9 C6=2E:@?D 2D 4CF4:2=7@C C6D:DE:?8 2?E:D6 >:E:D > . H:D > @DE : > A@CE2?E H@C<, T\$! C+*"(%C0 +" 0\$! C\$1.c\$ a* 0\$! S5*a#+#1!, H2D AF3=D965 2D 62C=J 2D 1934, 2?5 3@E9 9:D D49@=2CD9:A 2?5 9:D 42 > A2:8?:?8 8C62E=J :??=6?465 E9@D6 C6DA@?D:3=6 7@C E96 6DE23=D9 > 6?E @7 E96 C@F?4:= @7 C9C:DE:2?D 2?5 6HD, C676CC65 E@ :? E96 I?EC@5F4E:@?.37

#2?J@7 E96 > 2;@C 7:8FC6D @7 EH6?E:6E9-46?EFCJ E96@=@8J :? EFC@A6 H6C6 AC@7@F?5=J 27764E65 3J E96 EC62E > 6?E @7 E96 6H:D9 A6@A=6 E92E E96J H:E?6DD65 :? E9:D A6C:@5. B@?9@6776C H@F=5 A6C92AD 36 E96 > @DE 72 > @FD 612 > A=6, 3FE @?6 4@F=5 > 6?E:@? 7C@> E96 (@>2? C2E9@=:4 C9FC49 #2C:E2:? 2?5 56 "F324 (H9@ 3642 > 6 :?G@=G65 H:E9 F?56C8C@F?5 C6D:DE2?46 24E:G:E:6D :? FC2?46 282:?DE 2?E:D6 > :E:D > 5FC:?8 E96) 64@?5 - @C=5 - 2C) 2?5 B2CE9 7C@ > E96 (67@C > 65.38 I? =64EFC6D 96 82G6 :? 1946 :? B@??, B2CE9 2DD6CE65 E92E E96 ?2E:@? @7 IDC26=

6>3@5:6D :? 9:DE@CJ E96 7C66 8C246 @7 G@5 7@C FD 2= N I7 2D C9C:DE:2?D H6 E9@F89E E92E C9FC49 2?5) J?28@8F6 ?@ =@?86C 27764E65 @?6 2?@E96C, 6G6CJE9:?8 H@F-5 36 =@DE. A?5 H96C6 E9:D D6A2C2E:@? 36EH66? E96 4@>>F?:EJ 2?5 E96 6H:D9 ?2E:@? 92D 366? >256 4@>A=6E6, :E :D E96 C9C:DE:2? 4@>>F?:EJ H9:49 92D DF776C65.39

I? E96 564256D 27E6C 1945, >2?J 49FC496D 3682? D62C49:?8 7@C 2 ?6H 2AAC@249, DECF88=;?8 E@ C64@?4:-6 2? 2446AE2?46 @7 D@>6 C6DA@?D:3:=EJ 7@C E96 H@=@42FDE 2?5 2 56D:C6 7@C 2 ?6H C6=2E:@?D9:A H:E9 F52:D> H:E9 E96 5:77:4F=J @7 C6G:D:E:?8 =@?8-96=5 E6249:?8D. *9:D 42? 36 D66? :? E96 564=2C2E:@?D 3J E96 - @C=5 C@F?4:=@7 C9FC496D 2?5 @E96C 49FC49 @C82?:K2E:@?D 2E E9:D E:>6; E96 F:CDE ADD6>3=J @7 E96 - @C=5 C@F?4:=@7 C9FC496D, >66E:?8 :? A>DE6C52> :? 1948, 277:C>65 SE96 DA64:2=>62?:?8 @7 E96 6H:D9 A6@A=6 7@C C9C:DE:2? 72:E9T 2?5 C6;64E65 2?E:D6>:E:D> S2D 23D@=FE6=J :CC64@?4:=23=6 H:E9 E96 AC@76DD:@? 2?5 AC24E:46 @7 E96 C9C:DE:2? 72:E9T 2?5 2D SD:? 282:?DE G@5 2?5 >2?T.40 A?@E96C :?5:42E:@? @7 27C6D9 2AAC@249 H2D E96 DE2E6>6?E S%? E96 6H:D9 ' F6DE:@?T, :DDF65 3J E96 EG2?86=:D496! :C496:? D6FED49=2?5 :? 1950, H9:49 :?4=F565 E96 2DD6CE:@? E92E S= 6 36=6G6 G@5TD AC@>:D6 E@ 36 G2=5 7@C 9:D 49@D6? A6@A=6 6G6? 27E6C E96 4CF4:7:1:@? @7 6DFD C9C:DE.I41 - 92E DF49 2 E96@=@8:42=4=2:>>:89E >62?:D 5:D4FDD65 7FCE96C 36=@H.

*96 6DE23=:D9>6?E @7 E96) E2E6 @7 IDC26=:D 2=D@ C6=6G2?E E@ E96D6 56G6=@A>6?ED. IE:>A=:4:E=J 492=6?865 EC25:E:@?2= C9C:DE:2? 4=2:>D E92E

C9C:DE:2? E6249:?8 2?5 36=67. *96 E96? AC493:D9@A @7 C2?E6C3FCJ, #:4926= (2>D6J, :DDF65 2 DE2E6>6?E:? 1964:? H9:49 96 D2:5: \$IE:D 2=H2JD HC@?8 H96? A6@A=6 ECJ E@ =2J E96 3=2>6 FA@? E96 6HD 7@C E96 4CF4:7:I:@? @7 6DFD C9C:DE.I⁴⁴ - 96C6 E96C6:D=6DD 4=2C:EJ, 9@H6G6C, :D @? H92E E96 C9FC49 D9@F=5 36 D2J:?8 A@D:E:G6=J 23@FE F52:D> 2D 2 =G:?8 C6=8:@?. AD ?@E65 23@G6, E96 EG2?86=D496!:C496:? D6FED49=2?5 DE2E65 324<:? 1950 E92E \$-6 36=6G6 G@5ID AC@>:D6 E@ 36 G2=5 7@C 9:D 49@D6? A6@A=6 6G6? 27E6C E96 4CF4:7:I:@? @7 6DFD C9C:DE.I - 92E, 9@H6G6C, :D E96

T n d for r n an

) F49 2EE6 > AED E@ 7@C > F=2E6 2 C6?6H65 E96@=@8J @7 C9C:DE:2?P 6H:D9 C6=2E:@?D @G6C E96 A2DE 9F?5C65 J62CD > 2J 36 =@42E65 :? 2 4@?E61E @7 644=6D:2=C6A6?E2?46 7@C 4@ > A=:4:EJ H:E9 E96 6G:=D @7 2?E:D6 > :E:D > . AD :D 2=C625J 4=62C :? N+/0.a A! 0a0! , HC@?8 E96@=@8J :? E9:D 2C62 92D 366? 3@F?5 FA H:E9 HC@?8 24E:@?, 8:G:?8 =68:E: > 2E:@? 7@C C9C:DE:2? DFAA@CE 7@C A6CD64FE:@? 2?5 5:D4C: >:?2E:@? @7 6H:D9 4@ > > F?:E:6D 2?5 6C@5:?8 E96 C64@8?:E:@? @7 6H:D9 A6@A=6 2D ?6:893@FCD H9@ > C9C:DE:2?D 2C6 3@F?5 E@ =@G6.

*96:562@7E96@?6, 9@=J, 42E9@=42?52A@DE@=4C9FC49C6A6?E:?87@C D:?D :E 92D 4@>>:EE65 C2:D6D D@>6 D:8?:7:42?E BF6DE:@?D 7@C C9C:DE:2? E96@=@8J.47 \$@?6E96=6DD, E96 4@?46AE @7 (6DA@?D:3:=EJ 7@C D:? 36:?8 D92C65 3J >6 > 36CD @7 2 4@ > > F?:EJ 3@F9 AC6D6?E 2?5 A2DE 92D 566A C@@ED: ? C9C:DE: 2? EC25: E:@?: :?4=F5: ?8 E96) 4C: AEFC6D. - 96C6 E96 4@?F:?F:?8 67764FD @7 A2DF D:?D 3.1 > 6 > 36CD @7 F96 @?6 3@5.1 @7 C9C:DF 4@?E:?F6 E@ 36 76-£ 2?5 H96C6 E9@D6 D:?D 92G6 ?@E 4@>6 E@ 2? 6?5. E96? >6>36CD @7 C9C:DFID 3@5J 96C6 2?5 ?@H 2C6 3@F?5 F@ D66< G@5ID >6C4J. (6A6?E2?46 :? E9:D 2D :? 2?J @E96C 4@?E6TE ?665D E@ :56?E:7J 2?5 ?2>6 H92E:DD:?7F=, =6EE:?8:E36D66?7@CH92E:E:D:?E96=:89E@7G@5TD C:89E6@FD?6DD, 2?5 ?@E E2<6 C67F86 :? G28F6 86?6C2=E:6D. IE 2=D@ ?665D E@ =625 E@ 2 4@>>:E>6?E E@ H2=< :? ?6H?6DD @7 =:76. 2446AE:?8 5:D4:A=:?6D @7 492?865 3692G:@FC F92F 7@=@H 7C@> F92F. C9C:DE:2? 4@> > F?:E:6D > 2J H:D9 E@ 4@?D:56C H96E96C E96C6 4@F=5 36 DF:E23=6 @AA@CEF?:E:6D :? F96:C AF3=4 H@CD9:A F@ 7@4FD 2?5 61AC6DD C6A6?F2?46 7@C C9C:DF:2? :?G@=G6>6?E:?7@DE6C:?8 2?E:D6>:E:D>, 7@C:?DE2?46:?C6=2E:@?E@ @3D6CG2?46 @7 H@=@42FDE #6>@C:2= D2J.

T olog and ra i o do d al i li_ing l ga of an i-\(^{j}\) dais

*H@ C9F(49 @7 E?8=2?5 42E965C2=D, \$@CH:49 2?5 ":?4@=?, H6C6 2DD@4:2E65 H:E9 E96 56G6=@A > 6?E 2?5 DAC625 @7 E96 \$3=@e5 =:36=I :? E96 =2E6C #:55=6 A86D, H9:49, @? E96 32D:D @7 E96 562E9 @7 2 49:=5, 72=D6=J 244FD65 6H:D9 4@ > > F?:E:6D @7 235F4E:?8 2?5 <:=:?8 C9C:DE:2? 49:=5C6? E@ FD6 E96:C 3=@e5 :? E96 > 2<:?8 @7 &2DD@G6C > 2EK@D. *9:D 2=682E:@?, @C:8:?2E:?8 :? E?8=2?5, 3642 > 6 E96 42E2=JDE 7@C E96 > FC56C @7 > 2?J 6HD :? E9:D 4@F?ECJ 2?5 24C@DD EFC@A6, 6DA64:2=J :? A@8C@ > D 2E E2DE6CE:56. *96 E@ > 3D H96C6 E96 49:=5C6? H6C6 3FC:65 3642 > 6 D9C:?6D E92E H6C6 2 7@4FD 7@C A:=8C: > 286 2?5 56G@E:@? F?E:= E96:C 56DECF4E:@? 2=@?8 H:E9 @E96C DF49 A=246D 2E E96 (67@C > 2E:@?.

17 J@F G:D:E E96D6 42E965C2+D E@52J, J@F H:=7:?5 AF3::4 > 2E6C:2= E92E C676CD E@ E96D6 9:DE@C:6D.

1? ":?4@=?, E96 C6=6G2?E D:8? ?62C E96 E@>3 @7 E96 49:=5 <?@H? 2D HE89 4@?4=F56D H:F9 F96D6 H@C5D:

*9:D :: 36= 282:?DE E96 6HD :D 2 D92 > 67F= 612 > A=6 @7 C6=:8:@FD 2?5 C24:2= 92EC65, H9:49, 4@?E:?F:?8 5@H? E9C@F89 E96 286D, G:@=6?E=J 5:G:56D > 2?J A6@A=6 :? E96 AC6D6?E 52J. "6E FD F?:E6, 96C6, :? 2 AC2J6C 7@C 2? 6?5 E@ 3:8@ECJ, AC6;F5:46 2?5 A6CD64FE:@?. &6246 36 H:E9 J@F:) 92=@ > .

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6DFD @7 \$2K2C6E9, H9@> C9C:DE:2?D 36=6G6 E@ 36 IDC26=ID #6DD:29 2?5 E96) 2G:@FC @7 E96 H@C=5. =:G65 2?5 5:65 2D 2 6H :? 72:E97F=D6CG:46 E@ SE96 G@5 @7 A3C292>, ID224 2?5 24@3T. *96) 4C:AEFC6D E92E :?7@C>65 2?5 8F:565 E96 =76 @7 6DFD H6C6 E96 3@@<D E96 C9FC49 ?@H C676CD E@ 2D E96 %=5 *6DE2>6?E. 92G:?8 C6D:DE65 2E 2 7@C > 2E:G6 DE286 2EE6 > AED E@ C6 > @G6 E96 > 7C@> :ED 42?@? @7) 4C:AEFC6 @C C6=682E6 E96 > E@ 2? :?76C:@C DE2FFD. A=9@F89 F96C6 2C6 D:8?:7:42?F 5:776C6?46D 36FH66? C9C:DE:27:EJ 275 F52:D> :? E96:C C625:?8 @7 E96D6 4@>>@? E61ED, 3@E9 C646:G6 E96> 2D :?DA:C65 3J **G**@5, 6?23=:?8 E96 A6@A=6 @7 G@5 E@ 962C E96 H@C5 @7 G@5 E@52J. *96J AC@G:56 7@C 6HD 2?5 C9C:DE:2?D 4@>>@? E61ED 7@C H@CD9:A 2?5 AC2J6C, 2?5 D@FC46D @? H9:49 E96J > 2J 4@?7:56?E=J 5C2H E@ 255C6DD E96 4C62F@C@7F96H@C=5. - 9:=6 C9C:DF:2?D 92G6 C6DA@?565:? 5:776C6?E H2JD E@ 6H:D9 D6=7-F?56CDE2?5:?8 2D G@5TD A6@A=6. E96J D9@F=5 ?6:E96C C6:64E :E 2D D:>A=J >:DE2<6? ?@C 2446AE :E 2D: ?56A6?56?E7C@ > G@5TD D2G: ?8 H@C < :? 6DFD C9C:DE. *96 C6=2F:@?D9:A 36FH66? C9C:DF:27:EL 275 F52:D> :D 492C24F6C:K65 3J 3@E9 <:?D9:A 2?5 5:G6C86?46, 2?5 E96 :562 @7 F52:D> 2D 2 SD24C2 > 6?F @7 @F96C?6DDI 7@C F96 C9FC49 AC@G:56D @?6 H2J F@ 2AAC64:2F6 F96 5:DF:?4F:G6?6DD @7 F9:D C6=2F:@?D9:A.

f s s f dais and ri r s

6DFD H2D 2 6H H9@ C625 E96 *2?2<9 (H9:49 C9C:DE:2?D ?@H 42=E96 %=5 *6DE2 > 6?E), 2?5 72:E97F=J 7@=@H65 2?5 :?E6CAC6E65 7@C 9:D 7@=@H6CD E96 AC6D4C:AE:@?D @7 E96 *@C29 (#2EE96H 5.17 2?5 #2EE96H 8.4). *96 7:CDE 2?5 >@DE 72 > := 2C E:E=6 7@C 6DFD H:E9 E96@=@8:42=D:8?:7:42?46 :D E2<6? 7C@ > E96 %=5 *6DE2 > 6?E 2?5 61AC6DD6D 9:D D:8?:7:42?46 7@C IDC26= C9C:DE, >62?:?8 \$2?@:?E65 @?61, H:E9 E96 H63C6H 6BF:G2=6?E FDF2=J A?8=4:K65 2D \$#6DD:291. - 9:=6 5632E6 4@?E:?F6D 2D E@ E96 F?56CDE2?5:?8 @7 E9:D E6C > :? E96 4@?E61E @7 7:CDE-46?EFCJ F52:D >, E96 C9FC49TD 4=2: >D 23@FE 6DFD 368:??:?8 7C@ > E96 \$6H *6DE2 > 6?E > 2<6 ?@ D6?D6 H:E9@FE E96 42=:?8 @7 IDC26=E@ 36 G@5TD 72:F97F=A6@A=6.48

*96 \$6H *6DE2>6?E:D7F=@7BF@E2E:@?D7C@>E96 6H:D9)4C:AEFC6D@7

E96 52J, H9:49 2C6 2446AE65 2D E96 H@C5 @7 G@5 2?5 BF@E65 2D 5:G:?6
2FE9@C:EJ.49 I? E96 4@FCD6 @7 E96 D64@?5 46?EFCJ, E96 C9FC49 6>A92E:42=J
C6AF5:2E65 E96 G:6H @7 #2C4:@? 2?5 E96 G?@DE:4D E92E E96 G@5 @7 E96 %=5
*6DE2>6?E H2D 5:776C6?E 7C@> E96 G@5 @7 E96 \$6H, #2C 564EJ1 - 0 - 10H?EF:C5, (F)0. 5 (

277:C>2E:@? @7 E96 F?:EJ @7 G@5TD 24E:@? :? C6G6=2E:@? 2?5 C656>AE:@? :D ?@E F?56C>:?65 :? @E96C H2JD, DF49 2D 3J 5C2H:?8 2? @AA@D:E:@? 36EH66? 2? @-5 4@G6?2?E @7 SH@C<DT 2?5 2 ?6H 4@G6?2?E @7 S8C246T, H96? G@5TD 4@G6?2?E->2<:?8 H:E9 9F>2?:EJ 92D, 7C@> E96 368:??:?8, 7-@H65 7C@> 5:G:?6 8C246, >6C4J 2?5 -@G6, 42=:?8 7@C 2 9F>2? C6DA@?D6 @7 E92?<7F=?6DD E92E 7:?5D 6TAC6DD:@? :? 24ED @7 -@G:?8 D6CG:46. - 9:-6 C9C:DE:2?D H:= C625 E96 %=5 *6DE2>6?E :? E96 =89E @7 C9C:DE, E96J D9@F=5 ?@E D66 E96 \$6H *6DE2>6?E 2D 2 CFAEFC6 :?4@?D:DE6?E H:E9 E96 62C=6C C6G6=2E:@?.51

*96 G@DA6±D AC@G:56 6G:56?46 @7 5632E6 2?5 4@?7±4E 36EH66? 6DFD 2?5 @E96C 6H:D9 E62496CD 2?5 8C@FAD, H9:±6 @E96C 3@@<D @7 E96 \$6H *6DE2 > 6?E, :? A2CE:4F=2C E96 3@@< @7 A4ED, D9@H 9@H DF49 5632E6 2?5 4@?7±4E 4@?E:?F65 E@ 36 A2CE @7 E96 61 A6C:6?46 @7 E96 62C±J C9C:DE:2? > @G6 > 6?E. 1?6G:E23±J, 9@H6G6C, DF49 244@F?ED H6C6 ±23±6 7C@> 2? 62C±J DE286 E@ 36 :?E6CAC6E65 5:776C6?E±J 3J G6?E±6 C9C:DE:2? 4@ > > F?:E:6D H9@ 925 ± > :E65 4@ > AC696?D:@? @7 F52:D > 2?5 > :89E E96 > D6±G6D 61 A6C:6?46 E6?D6 C6±2E:@?D9:AD H:E9 =@42± 6H:D9 4@ > > F?:E:6D. *96J 4@F=5 368:? E@ 36 962C5 2D :?5:4E > 6?ED @7 F52:D > 2?5 :ED 2596C6?ED 2D DF49, C2E96C E92? 2D 56D4C:AE:@?D @7 : > A2DD:@?65 61492?86D 3%\$% F52:D > 2C:D:?8 7C@ > E96 DE2CE±?8 4=2:>D > 256 3J 2?5 23@FE E96 6H:D9 E62496C, 6DFD @7 \$2K2C6E9, 3J 9:D =2C86±J 6H:D9 7@=@H6CD. C92=6?86D C6=2E:?8 E@ E96 C625:?8 @7 DF49 3:3±42=E61ED :? 4@?E6 > A@C2CJ 49FC49 ±76 2C6 255C6DD65 :? C92AE6C 4 36=@H.

*96C6:D 2 =@?8 EC25:E:@? 8@:?8 324< E@ E96 62C=J 46?EFC:6D @7 E96 C9FC49 @7 4@?D:56C:?8 E96 6H:D9 A6@A=6 E@ 92G6 2 4@?E:?F:?8 C@=6 2D 72:E97F= 4FDE@5:2?D @7 E96 %=5 *6DE2 > 6?E/*2?2<9. AD 2=C625J ?@E65, D:?46 E96 D64@?5 46?EFCJ AD, E96C6 92D 366? ?@ D:8?:7:42?E 5:DAFE6 C682C5:?8 E96

:?4=D:@? @7 E96 3@@<D 4@?E2:?65 :? E96 6H:D9 *2?2<9 :? E96 C9FC49TD %=5 *6DE2 > 6?E 2D 2? :?E68C2= A2CE @7 :ED) 4C:AEFC6. A=@?8D:56 E9:D 4@C6 42?@? @7 E9@D6 E61ED @7 H9:49 F52:D > 92D AC6D6CG65 4@A:6D :? E96:C H63C6H 2?5 AC2 > 2:4 @C:8:?2=D, D@ > 6 49FC496D 2=D@ :?4=F56 @E96C E61ED, 2=D@ 6H:D9 :? @C:8:?, 3FE ?@E C64@8?:K65 3J (233:?:4 F52:D >, H9:49 H6C6 4@ > A@D65 @C:8:?2=J :? GC66<, @C H9:49 92G6 ?@E 366? AC6D6CG65 :? E96:C H63C6H/AC2 > 2:4 @C:8:?2=D. *96D6 E61ED H@F=5 36 D66? 3J > 2?J C9C:DE:2?D, :?4=F5:?8 A?8=42?D, 2D 92G:?8 2 D64@?52CJ E9@F89 DE:= :>A@CE2?E DE2EFD P 2D 2A@4CJA92=@C 56FE6C@42?@?:42=52

):?46 2E =62DE E96 E:>6 @7 6C@>6, 2?5 A2CE:4F=2C=J 5FC:?8 E96
(67@C>2E:@? @7 E96 D:1E66?E9 46?EFCJ, C9C:DE:2? D49@=2CD 92G6 6>A=@J65
6H:D9 D49@=2CD E@ E6249 E96> H63C6H 2?5 AC2>2:4, 2?5 E9FD 6?23=6
E96> E@ 82:? 2446DD E@ E96:C %=5 *6DE2>6?E :? :ED @C:8:?2==2?8F286D.
*9:D 563E :D 6G:56?E :? E96 8C62E 4=2DD:4 C9C:DE:2? EC2?D=2E:@?D @7 E96 %=5
*6DE2>6?E, DF49 2D E96! :?8 2>6D B:3=6 @7 1611, 2?5 92D 4@?E:?F65
5@H? E@ E96 AC6D6?E 52J. - :E9:? E96 24256>:4 H@C=5 2 566A=J 7CF:E7F=
5:2=@8F6 2?5 5632E6 61:DED 36EH66? 6H:D9 2?5 C9C:DE:2? D49@=2CD
(2E 4@?76C6?46D 2?5 D6>:?2CD, 2D H6= 2D :? 2CE:4=6D 2?5 >@?@8C2A9D)
@? E96 >62?:?8 @7 E96 *2?2<9/%=5 *6DE2>6?E :? :ED 9:DE@C:42= 4@?E61E.
*9:D 4@?DE:FFE6D 2 G2=E23=6 C6D@FC46 7@C E96 C9FC49.

AE E96 D2>6 E:>6, :E:D:>A@CE2?E E@C64@8?:K6 E92E:? 2 4@?76DD:@?2=2D @AA@D65 E@2? 24256>:4 4@?E61E E96 EH@C6=8:@FD 4@>>F?:E:6D 2AAC@249 E96 E61E 7C@> 5:DE:?4E:G6 96C>6?6FE:42=A6CDA64E:G6D, :? H9:49 :E:D C625:? E96 =:89E @7 @E96C, 5:776C6?E E61ED, 2D H6=2D 7C@> 2 5:776C6?E D6?D6 @7 H9@SH6T 2C6:? C6=2E:@? E@E96 A6@A=6 2?5 6G6?ED D6E @FE:? E96D6) 4C:AEFC6D. F@C C9C:DE:2?:EJ E96 %=5 *6DE2>6?E ?665D E@ 36 C625 2=@?8D:56 E96 \$6H, :? H9@D6 =:89E :E:D F?56CDE@@5 E@92G6 2 AC@A96E:4

5:>6?D:@? E9C@F89@FE, 2D 2 D6E @7 E61ED E92E =@<< 7@CH2C5 E@ G@5TD C6G6=2E:@? :? 6DFD C9C:DE. (233:?:4 F52:D>, @? E96 @E96C 92?5, 7:?5D

E96J 36=@?8 F@ G@5TD 49@D6? A6@A=6 H:F9@FF 9:>. F96J 2C6 3@F?5 F@ 36 2H2(6 @7 F96 2AA2(6?F F6?D:@?, ID:F 2? F?2G@:523=6 F6?D:@? 36FH66? 4@?EC25:4E@CJ A@D:E:@?D. @C 4@F=5 :E 36 36EE6C F?56CDE@@5 2D 2 > 2EE6C @7 5:776C6?E A6CDA64E:G6D, 7@C 612>A=6, H92E C9C:DE:2?D 2?5 6HD >62? 3J \$36=@?8:?8 E@ G@5TD 49@D6? A6@A=6T:D ?@E E96 D2 > 6 E9:?8 2?5 E96C67@C6 E96 EH@ 36=67D 2C6 ?@E :? 4@?7=4E? *96C6 H@F=5 2=D@ 36 5:776C6?E F?56CDE2?5:?8D H:F9:? C9C:DE:2?:EJ @7 H92E >:89E 36 >62?E 3J \$G@5ID 49@D6? A6@A=6I.) E:=. E96 2AA2C6?E E6?D:@? 36EH66? C9C:DE:2? 2?5 6H:D9 D6=7-F?56CDF2?5:?8 @? F9:D A@:?F AC@G:56D 2 FD67F=:?:F:2= A@:?F @7 56A2CEFC6 7@C 61A=@C:?8 5:776C6?E 2AAC@2496D H:E9:? C9C:DE:2? E96@=@8J E@ 56D4C:3:?8 E96 C9C:DE:2?P 6H:D9 C6=2E:@?D9:A. *96C6 92D 366? 2 H:56 G2C:6EJ @7 C6DA@?D6D E@ E92E A6C46:G65 E6?D:@? :? C9C:DE:2? 9:DE@CJ 2?5 6DA64:2=J @G6C E96 =2DE 9F?5C65 J62CD. 2D :?5:42E65 :? A286D 16P19 @7 E96 AC6G:@FD 492AE6C. - 9:=6 E96C6 :D 4=62C=J 2 DA64ECF > @7 G:6HD 96=5 3J C9(:DF:2?D P 2?5 ?@F 2 ?62F=I =?62(@?6 6:F96(P 7@F(3(@25 A@D:F:@?D >:89E 36 :56?E:7:65 E92E H@F=5 92G6 D@>6 568C66 @7 AFC492D6 2>@?8 C9C:DE:2?D E@52J 2D H6=2D DFAA@CE 7C@> E96@=@8:2?D :? E96 A2DE.

96 7:CDE C6DA@?D6 E@ E96 2AA2C6?E E6?D:@? 36EH66? C9C:DE:2? 2?5 6H:D9 36=67D 23@FE E96 A6@A=6 @7 G@5 :D 2? 1-1a(%) ! *%a(@7 E96 4=2:> @7 6H:D9 A6@A=6 D:?46 E96 E:>6 @7 C9C:DE E@ 36 A2CE @7 G@5ID 49@D6? A6@A=6. *96 :?42C?2E:@?, 4CF4:7:1:@? 2?5 C6DFCC64E:@? @7 E96) @? @7 G@5 >62?D E92E E96 A6@A=6 @7 G@5 2C6 ?@H 567:?65 2D E9@D6 H9@ C646:G6 9:> 2?5 36=6G6 :? 9:>. *9@D6 H9@ 5@ ?@E C646:G6 9:> 2?5 36=6G6 :? 9:>. *9@D6 H9@ 5@ ?@E C646:G6 9:> 2?5 36=6G6 :? 9:>. *9@D6 H9@ 5@ ?@E C646:G6 9:> 2?5 36=6G6 :? 9:> 2C6 ?@E A2CE @7 G@5ID A6@A=6 E@52J. IDC26=367@C6 C9C:DE H2D 72:E97F=:? D@ 72C 2D :E 2446AE65 E96 AC@>:D6D E92E A@:?E65 E@H2C5D 9:> 2?5 =G65 F?56C E96 4@G6?2?E 8:G6? 3J G@5 E@ AC6A2C6 E96 H2J 7@C 9:>. \$@H E92E 96 92D 4@>6, E@ 9@=5 @? E@ E96) 4C:AEFC6D E92E 56D4C:36 E96 AC@>:D6D ?@H 7F=7:=65 :? 9:> 2?5 E96 4@G6?2?E ?@H >256 ?6H E9C@F89 9:> J6E H:E9@FE

D:?46 E96 86?6C2E:@?D 27E6C E96 2A@DE-6D 2?5 42CC:6D 2 962GJ 3FC56?
@7 C6DA@?D:3::EJ 7@C 2?E:D6>:E:D> 2?5 :ED =6E92= 4@?D6BF6?46D, 2D D6E
@FE :? E96 AC6G:@FD 492AE6C, 42??@E 4@>6 E@ 2 D2E:D724E@CJ E96@=@8:42=
;F586>6?E C682C5:?8 9@H 6H:D9 A6@A=6 D:?46 E96 4@>:?8 @7 C9C:DE
?@?6E96=6DD C6>2:? C64:A:6?ED @7 G@5TD AC@>:D6D. IE 92D E@ 2446AE E92E
E96C6 :D 2 >JDE6CJ 96C6 E92E EC2?D46?5D :ED F?56CDE2?5:?8 :? 9:DE@CJ,
E9@F89 :ED >62?:?8 H:= 36 C6G62=65 2E E96 6?5 @7 E:>6. IE D9@F=5 ?@E
E96C67@C6 56?J E96 4@?E:?F:?8 C6=2E:@?D9:A @7 4@G6?2?E =@G6 36EH66?
6H:D9 A6@A=6 2?5 E96 @?6 G@5, 3FE ?6:E96C D9@F=5 :E 56?J E96 4=2:>D
:E >2<6D @? E96 32D:D @7 E96) 4C:AEFC6D 2D DF>>2C:K65 :? E96 9:DE@C:4
4C665D 23@FE 6DFD C9C:DE 2D E96) @? @7 G@5 :?42C?2E6 2?5 2D E96

```
E96 A6@A=6 @7 G@5. - 9:=6 E9:D A@D:E:@? 42? 24625J 36 7@F?5 :? E96

HC:E:?8D @7 E96 A?8=42? E9:?<6C 2>6D &2C<6D :? E96 1930D, :E 364@>6D

>F49 >@C6 AC@>:?6?E 2D C9C:DE:2?D 368:? E@ 8C2AA=6 :? 62C?6DE H:E9 E96
:>A24E @7 E96 H@=@42FDE 7@C C9C:DE:2? E96@=@8J 7C@> E96 1960D @?H2C5D.

*96 HC:E:?8D @7 2?@E96C E96@=@8:2? 7C@> E96 A?8=42? C@>>F?:@?, &2F=
G2? BFC6?, >:89E 36 >6?E:@?65 :? E9:D 4@?E61E. )@>6 H@F=5 D66 E9:D 2D
E96 @?=J C6DA@?D6 E92E :D ECF=J 7C66 7C@> E96 SDFA6CD6DD:@?:D>T :56?E:7:65
```

2D E96 C@@E @7 9:DE@C:4 C9C:DE:2? 2?E:- F52:D>, H9:49 AC@G:565 2 76CE:=6

G@5TD 56D:8? 7@C C6G6=2E:@? 2?5 D2=G2E:@?. *96C6 2C6 EH@ H2JD @7 36:?8

D665-365 7@C > FC56C@FD 2?E:D6 >:E:D> :? E96 >@56C? 6C2, D@ E92E E96C6
:D 2? 6E9:42=: > A6C2E:G6 7@C C9C:DE:2?D E@ 25@AE :E.

(6256CD @7 E9:D 5@4F > 6?E 2C6 ≤<5 (3ETJ10 - 1.967 TD151:1 (*96)07) - 5:565 C9C:DE:2?D E96 \$ (6)17.6H (*)6417.6E96 > 6?E. E92E :D? (@)8.3 (E.967 TD151:1 (*96)0D \$2*E292

E96 .?E(6C)18.5 (@)0.55(>F)0.5 D:E:@? - (7 C9C:DE:2?D D9 (@)0.5 (F)0.5 ((7'±D51

*96*96@EC(>6)0.54(D6)0.52E:G6E92ECC817.6:G6?)E:@E.967ID151:1(*96)00>6.DC2(

?@H 8:G6D E@ E96 C9FC49 :? C9C:DE, H9:49 92D 364@>6 E96 IDC26=@7 G@5. A44@C5:?8 E@ E96 D64@?5 C6DA@?D6, E96 6H:D9 A6@A=6 2D 2 H9@=6 5@ :?5665 4@?E:?F6 E@ D92(6 :? E96 =G:?8 C62=EJ @7 IDC26=, 3FE :? 2 H2J E92E :D = >:E65 2?5 :?5665 5:>:?:D965 3J E96 23D6?46 @7 C6DA@?D6 E@ E96 8:7E @7 C9C:DE. F@C E96 E9:C5. E96C6 H@F=5 2=D@ 36 2? 277:C>2E:@? @7 6H:D9 A6@A=6TD 4@?E:?F:?8 A2CE:4:A2E:@? :? IDC26=. 3FE 2 H:E99@=5:?8 @7 :F586>6?E 2D E@ H92E >:89E =: >:E @C :?4C62D6 :E. *96 7@FCE9 C6DA@?D6 H@F=5 36 492C24E6C:K65 3J 2 AC676C6?46 7@C C682C5:?8 E96 6H:D9 A6@A=6 C2E96C E92? E96 C9FC49 2D IDC26=. H:E9 SIDC26=I 2?5 SC9FC49I 36:?8 D66? 2D A2C2=6=E9@F89 :?E6CC6=2E65 4@>>F?:E:6D E9C@F89 H9@> **G**@5 H@C<D :? E96 H@C=5. F@C E96 7:CDE A@D:E:@?, @?=J E96 C9FC49 :D IDC26=E@52J; 7@C E96 7@FCE9, E96 6H:D9 A6@A=6 4@?E:?F6 E@ 36 IDC26=, C682C5=6DD @7 E96 C9FC49. *96 D64@?5 2?5 F9:C5 A@D:E:@?D 2446AE 3@F9 F96 4=2:> @7 F96 7:CDE F92F F96 C9FC49:D?@H IDC26=2?5 E96 4=2:> @7 E96 7@FCE9 E92E E96 6H:D9 A6@A=6 C6>2:?D IDC26=, 3FE E96J 92G6 5:776C6?E 2AAC@2496D 2D E@ 9@H E@ 9@=5 E96D6 EH@ 4=2:>D E@86E96C.

(@>2?D 9P11 AC@G:56D E96 >@DE DFDE2:?65, 5:C64E EC62E > 6?E :? E96 \$6H *6DE2 > 6?E @? E96 BF6DE:@? @? H92E E96 =24< @? C64@8?:E:@? @? G@5ID H@C< :? C9C:DE @? E96 A2CE @? >@DE 6H:D9 A6@A=6 > 62?D ?@C E96 E96@=@8:42= F?56CDE2?5:?8 @? E96 6H:D9 A6@A=6 4@=64E:G6=J 2D IDC26=. IE :D ?@ 244:56?E E92E :E 92D 366? E96 3:3=42= A2DD286 C6A62E65=J EFC?65 E@ @G6C E96 A2DE 46?EFCJ 3J E96@=@8:2?D D66<:?8 E@ C6DA@?5 E@ 2?E:D6>:E:D> 3J C64@G6C:?8 2 C9C:DE:2? F?56CDE2?5:?8 @? G@5ID AFCA@D6 :? 2?5 ?@C 4@?E:?F:?8 F52:D>. *96 >2;@C D64E:@? :? B2CE9ID C\$1.c\$ D+#) a0%c/ @? C9FC49 2?5 IDC26=:D 2? 61E6?565 61A@D:E:@? @? (@>2?D 9P11. IE 2=D@?665D E@ 36 3@C?6 :? >:?5, 9@H6G6C, E92E E96 :?E6CAC6E2E:@? @? &2F=92D 366? E96 DF3;64E @? :?E6?D:G6 5632E6 :? \$6H *6DE2>6?E DEF5:6D D:?46 E96 1980D, 2?5 E92E E96 46?EC6 @? 8C2G:EJ H:E9:? E96 5632E6 92D 366? 72C

7(@ > DE23=6. #@C6@G6C, 2C8F > 6?ED 23@FE E96 4@?E61E, AFCA@D6 2?5 <6J > 6DD286 @7 &2F=ID =6EE6C E@ E96 (@ > 2?D 92G6 A=2J65 2 A:G@E2=C@=6 H:E9:? E9:D 24256 > :4 4@?EC@G6CDJ. *H@ @7 E96 A:G@E2=:DDF6D 96C6 92G6 366? E96 61E6?E E@ H9:49 &2F=ID E9:?<:?8 :? 86?6C2=619:3:ED 2? 6DD6?E:2= 4@96C6?46, 2?5 9@H 72C (@ > 2?D :? A2CE:4F=2C D9@F=5 36 C625 2D 7@=@H:?8 2 4@??64E65 =:?6 @7 2C8F > 6?E.54

&2F=368:?D 9:D 5:D4FDD:@? :? (@>2?D 9P11 H:E9 D@>6 566A=J A6CD@?2= C67=64E:@?: \$I 92G6 8C62E D@CC@H 2?5 F?462D:?8 2?8F:D9 :? >J 962CE.DF@C I

D2=G2E:@? @7 2=, 6HD 2?5 G6?E:=6D 2=<6, 42? 36 4@>A2E:3=6 H:E9 E96 E6249:?8 @7 E96 C9FC49 @7 E?8=2?5, :?4=F5:?8 :ED FA9@=5:?8 @7 E96 9:DE@C:4 4C665D, H9:49 E6249 E96 5:G:?:EJ @7 C9C:DE 2?5 9:D D2G:?8 H@C< 7@C 2= A6@A=6. I7 :E :D ECF6 E92E E96 6E6C?2= - @C5 @7 G@5 92D 366? > 256 7=6D9 2?5 5H6=£ 2>@?8 FD, 9@H 42? E9:D 36 2 > 2EE6C @7 ?@ C6=6G2?46 7@C E96 A6@A=6 H9@ 2C6 \$9:D @H?I (@9? 1.11-14)? I7 G@5 E96 F2E96C 82G6 9:D @?=J-368@EE6?)@? D@ E92E H6 >:89E 92G6 =:76 :? 2= :ED 7F=?6DD 3J 23:5:?8 :? 9:> (@9? 10.10), E96? 2C6 6H:D9 A6@A=6 E@ 36 56?:65 E9:D 7F=?6DD? #@C6@G6C, @?6 >:89E 2=D@ 2D< H96E96C :E :D A@DD:3=6 E@ E2<6 E9:D 2AAC@249 2?5 C682C5 E96 HC:E:?8D @7 E96 %=5 *6DE2 > 6?E 2D 7F=J C9C:DE:2?) 4C:AEFC6. A44@C5:?8 E@ ACE:4=6 , II @7 E96 C9FC49 @7 E?8=2?5TD *9:CEJ-\$:?6 ACE:4=6D @7 (6=8:@?, \$3@E9 :? E96 %=5 2?5 E96 \$6H *6DE2 > 6?E 6G6C=2DE:?8 =:76 :D @776C65 E@ #2?<:?5 3J C9C:DEI. *96 7:CDE AC:?4:A=6 7C@ > E96 I?EC@5F4E:@? :D C6=6G2?E 2E E9:D A@:?E.

AE E96 D2 > 6 E: > 6, 9@H6G6C, :E D66 > D 4=62C E92E &2F= 5@6D 277:C > :?

(@>2?D 9P11 E92E E96 6H:D9 A6@A=6 @7 9:D 52J P 2?5 E96C67@C6 @7

@FCD P 4@?E:?F6 E@ D92C6 :? D@>6 H2J :? E96 C62=EJ @7 IDC26=; 27E6C 2=,

96 7@=@HD E96 244@F?E @7 9:D @H? 2?8F:D9 :? E96 7:CDE EH@ G6CD6D @7

(@>2?D 9 H:E9 E96 277:C > 2E:@?: S*96J 2C6 IDC26=E6D, 2?5 E@ E96 > 36=@?8

E96 25@AE:@?, E96 8=@CJ, E96 4@G6?2?ED, E96 8:G:?8 @7 E96 =2H, E96 H@CD9:A,

2?5 E96 AC@>:D6D;UE@ E96 > 36=@?8 E96 A2EC:2C49D, 2?5 7C@> E96 >,

244@C5:?8 E@ E96 7=6D9, 4@>6D E96 #6DD:29,UH9@:D @G6C 2=, G@5 3=6DD65

7@C6G6C.UA > 6?T ((@>2?D 9.4-5). *96 7F?52 > 6?E2= BF6DE:@? E92E E96 =24<

@7 @A6??6DD E@ E96 8@DA6= H:E9:? 6H:D9 4@>>F?:E:6D A@D6D 7@C &2F=:D

H96E96C E96 G@5 @7 IDC26= 92D 72:=65 :? 9:D 4@G6?2?E H:E9 E96 IDC26=E6D,

H9@ 2C6 2?5 C6>2:? G@5ID 6=64E. &2F=ID C6DA@?D6 E@ E9:D:D 6>A92E:42=J

SBJ ?@>62?D!T, 2D:D>256 4=62C :? E96 DE2E6>6?E E92E :>>65:2E6=J

7@=@HD: SIE:D ?@E 2D E9@F89 E96 H@C5 @7 G@5 92D 72:=65T ((@>2?D 9.62).

T eological Frameworks

C@?7:56?46 :? G@5ID 72:E97F=?6DD, 9@H6G6C, :D 46CE2:?=J ?@E E96 D2 > 6
E9:?8 2D AC6DF > AE:@? 2D E@ H9@ > G@5 42=D, 2D &2F=E96? AC@4665D E@
61A=2:?. 1?5665, :E 92D 366? 2C8F65 E92E E96 <6J E@ &2F=ID E9@F89E 96C6
2?5 E9C@F89 E96 C6DE @7 E96 A2DD286 :D E96 :?D:DE6?46 E92E 36=@?8:?8 E@
G@5ID A6@A=6 :D 2=H2JD 2 > 2EE6C @7 G@5ID 8:7E, G@5ID 8C246.56 IE 42? ?6G6C
36 D@ > 6E9:?8 56C:G65 7C@ > D@ > 6 @E96C 7@F?52E:@? (DF49 2D 3:@=@8:42=
56D46?E) @C 4=2: > 65 2D 2? 6?5FC:?8 C:89E @? @FC A2CE. H:D > 6DD286 @?
E9:D A@:?E, HC:E:?8 E@ AC65@ > :?2?E=J G6?E:=6 4@?8C682E:@?D :? (@ > 6, :D
AC: > 2C:=J :?E6?565 E@ H2C? E96 > 282:?DE AC6DF > AE:@? 2?5 DA64:7:42=J
282:?DE :?5:776C6?46 2?5 5:D52:? C682C5:?8 E96 6H:D9 C9C:DE:2?D H9@
2C6 2=D@ AC6D6?E F96C6.

H6?46 E96 >6DD286 :? E96D6 492AE6CD 3@E9 E92E ?@ 4=2:> E@ 36 SIDC26= 42? C6DE @? 2?JE9:?8 @E96C E92? G@5TD 8C24:@FD AC@>:D6. 2?5 E92E G@5TD 8C24:@FD AFCA@D6 7@C IDC26=, E9@F89 2AA2C6?E=J E9H2CE65, 92D ?@E 366? D6E 2D:56 3J G@5 2?5 E96C67@C6 42??@E 36 5:D>:DD65 3J G6?E:=6 C9C:DE:2?D. *9:D 6>6C86D >@DE 4=62C=J 2E E96 368:??:?8 @7 E96 4@?4=F5:?8 D64E:@? @7 E96 A2DD286, H96C6 &2F=HC:E6D: \$)@ E92E J@F >2J ?@E 4=2:> E@ 36 H:D6C E92? J@F 2C6, 3C@E96CD 2?5 D:DE6CD, II H2?E J@F E@ F?56CDE2?5 E9:D > JDE6CJ: 2 92C56?:?8 92D 4@>6 FA@? A2CE @7 IDC26=, F?E:= E96 7F= ?F>36C@7E96G6?E:-6D92D4@>6:?.0A?5D@2=IDC26=H:=36D2G65T ((@>2?D 11.25-262), &2CE @7 IDC26=92D 366? \$92C56?65I P E96 =2?8F286 FD65 H:E9 C682C5 E@ &92C2@9 :? E8JAE :D D9@4<:?8=J 2AA=65 96C6 E@ E9@D6 H9@ H@F=5 D66 E96>D6=G6D 2D 56D46?52?ED @7 E9@D6 56=:G6C65 7C@> 9:>. . 6E E92E A2CE @7 IDC26= .!) a\% / IDC26=, 2?5 G@5TD AFCA@D6 23:56D E92E S2= IDC26= H:= 36 D2G65I, 3@E9 E96 A2CE E92E 92D 366? 92C56?65 2?5 E96 A2CE E92E 92D 2=625J C646:G65 G@5TD AC@>:D6:? 6DFD C9C:DE, &2F=:D 2=D@ 4=62C, E96C67@C6, E92E E96 6H:D9 A6@A=6 4@?E:?F6D E@ D92C6 :? E96 E96@=@8:42=C62=:EJ @7 36:?8 IDC26=, 3J 4@?EC2DE H:E9 E96 7:CDE C6DA@?D6

2D @FF=:?65 23@G6. *9:D H2D F96 A@:?E > 256 7@C467F=J 3J B2CF9 2?5 @E96CD @? E96 32D:D @7 (@>2?D 9P11 :? C6DA@?5:?8 F@ E96 61EC6>6 G6CD:@?D @7 E92E A@D:E:@? 36:?8 AC@>@E65 3J E9@D6 D66<:?8 F@ AC@G:56 C9C:DE:2? DFAA@CE 7@C 2?E:D6>:E:D> :? \$2K: G6C>2?J 2?5 6=D6H96C6.

#@C6@G6C.: E:D 5:77:4F= E@ > 2:?E2:? E96 1*-1a(%% 56?:2=E92E 6H:D9 A6@A=6 D:?46 F96 F:>6 @7 C9C:DF 92G6 2?1 D92C6 :? F96 4@G6?2?F 2?5 AC@>:D6D @7 G@5 H:E9@FE 6:E96C F?56C>:?:?8 4@?7:56?46 :? E96 D4C:AEFC2= H:E?6DD @7 E96 %=5 *6DE2>6?E E@ G@5TD 4@G6?2?E->2<:?8 H:E9 A3C292> 2?5 9:D 56D46?52?ED. @C D6A2C2E:?8 G@5TD C6G6=2E:@? E@ IDC26=7C@> G@5TD C6G6=2F:@? :? 6DFD C9C:DF. *@ >@G6 :? 6:F96C @7 F96D6 5:C64F:@?D :D F@ 36 >@G:?8 2H2J7C@> @CE9@5@L5@4EC:?6 2D E96 C9FC49 @7 E?8=2?5 92D C646:G65 :E. *96 C6:64E;@? @7 #2C4:@?:D> :? E96 D64@?5 46?EFCJ. ?@E65 23@G6. H2D 2? 277:C>2E:@? @7 E96 F?:EJ @7 G@5TD 24E:@? E9C@F89 3:3:42= 9:DE@CJ 2?5 @7 E96 72:E97F=?6DD @7 G@5TD H@C5 E@ IDC26=, 2D H6= 2D E96 @C56C:?8 @7 E92E H@C5 E@ E96 > JDE6CJ @7 C9C:DE, 277:C > 65 :? ACE:4=6 , II. IE >:89E 36 ?@E65 E92E H2C?24<, >6?E:@?65 23@G6 2D @?6 @7 E96 7:8FC6D $70^{\circ} > 0.000$ C6DA@?D6. 2C8F65 :? 9:D DEF5J @7 #2C4:@? E92E E96 %=5 *6DE2 > 6?E D9@F=5 ?@ =@?86C 36 C682C565 2D 42?@?:42= :? 4@?F6 > A@C2C J C9C:DF:2?:F.L⁵⁷ AD H:E9 F96 7@FCE9 C6DA@?D6. F96C6 2C6 A@F6?E:2=BF6DE:@?D 96C6 F@@ 23@FE 9@H E96 %=5 *6DE2>6?E :D E@ 36 C682C565 2D C9C:DE:2?) 4C:AEFC6.

*96 4@?46AE @7 7F=1:=>6?E P :ED6=1 > F=E:=2J6C65 P 92D 366? A:G@E2=7@C 9@H C9C:DE:2?D 7C@ > E96 \$6H *6DE2 > 6?E @?H2C5D 92G6 D@F89E E@ 277:C > E92E F?:EJ. AE E96 46?EC6 @7 E96 4=2: > D C9C:DE:2?D > 2<6 23@FE 7F=1:=>6?E :D E96 562E9 2?5 C6DFCC64E:@? @7 C9C:DE, H9:49 92AA6?65, :? A6C92AD E96 @=56DE 7@C > F=2E:@? @7 E96 C9C:DE:2? 8@DA6=, \$244@C5:?8 E@ E96) 4C:AEFC6DT (1 C@C:?E9:2?D 15.3-4). *96 ?6H E9:?8 G@5 5@6D 3J C2:D:?8 E96 4CF4:7:65

T eological Frameworks

C9C:DE P D@ C25:2?E_J, C25:42=J ?6H E92E :E 42??@E 36 7F=J 72E9@>65 @C 8C2DA65 P :D FEE6C_J :? 244@C52?46 H:E9 2=E92E G@5 92D D2:5 2?5 5@?6 367@C6 .. 6E :E 2=D@ 492?86D E96 H2J E92E 2=E92E G@5 92D D2:5 2?5 5@?6 367@C6 :D C646:G65, H9:49 >62?D E92E 36=67 2?5 AC24E:46 42??@E D:>A=J 42CCJ @? F?2=E6C65 .\$@?6E96=6DD, EC2?DT@C > 65 A6C46AE:@? :? E96 =89E @7 E96 8@@5 ?6HD @7 C9C:DE @7 H92E 92D 366? D2:5 2?5 5@?6 3J G@5 :? E96 A2DE 42??@E =625 E@ E96 4@?4=FD:@? E92E :E 92D ?@H 366? 6>AE:65 @7 G2=F6, @C C6A=2465 3J D@ >6E9:?8 6=D6 @7 E96 D2 > 6 <:?5: :?DE625, H92E 92D 366? 7F=I:=65 7:?5D :ED 7F=?6DD :? E96 ?6H E9:?8 G@5 92D 5@?6, H9:49 >62?D :ED G2=F6 :D ?6H=J 277:C>65 2?5 :E 3@E9 56D6CG6D 2?5 56>2?5D @FC 4@?E:?F:?8 2EE6?E:@? 2D E96 H@C5 2?5 H@C< @7 G@5. *96 =6EE6C E@ E96 H63C6HD 8:G6D A2CE:4F=2C=J DFDE2:?65 2?5 4=@D6 2EE6?E:@? E@ :DDF6D 2C:D:?8 7C@> E92 7F?52 >6?F2=:?D:89E.

F@C > 2?J D49@=2CD, H63C6HD :D 2 > JDE6C:@FD 2?5 5:77:4F= E6IE E92E 92D 366? =@?8 ?68=64E65. *9:D 3@@< 92D C6-6 > 6C865 :? 3:3=:42=DEF5J, 9@H6G6C, 3@E9 3642FD6 @7 E96 C6=2E:@?D9:A 36EH66? 6H:D9 EC25:E:@? 2?5 C9C:DE:2? 36=:67 :E A@CEC2JD 2?5 3642FD6 @7 :ED FD6 @7 E96 %=5 *6DE2 > 6?E/*2?2<9. F@C E96 3@@< @7 H63C6HD, E96 %=5 *6DE2 > 6?E :D S2 C6A@D:E@CJ @7 5:G:?6 DA6649I 2?5 :ED H@C5D 2C6 S=G:?8 2?5 24E:G6I 2?5, 7@C E96 2FE9@C @7 H63C6HD, DA62< 23@FE 6DFD, G@5ID) @?. *96 > 2:? 4@?46C?, 9@H6G6C, H96? C625:?8 H63C6HD :D E96 6?5FC:?8 :?E6CAC6E2E:@? 7C@ > E96 D64@?5 46?EFCJ AD @?H2C5D E92E E9:D 3@@< AC@ > @E6D E96 G:6H E92E C9C:DE:2?:EJ C6A=246D F52:D>.) F49 G:6HD 2C6 ?@E 5:77:4F=E@ 9@=5 H96? C625:?8 E96 4@ > A2C:D@?D :? H63C6HD 36EH66? 6DFDI 2E@?:?8 562E9 2?5 E96 "6G:E:42=D24C:7:46D, @C E96 FD6 @7 E96 25;64E:G6 S36EE6CI H96? 4@ > A2C:?8 AC:6DED 2?5 4@G6?2?ED.

A?5 J6E, H63C6HD :D HC:EE6? 367@C6 E96 567:?:E:G6 \$A2CE:?8 @7 E96 H2JDT 56D4C:365 :? F96 AC6G:@ED 492AF6C - :F9 F96 C:49 G2C:682F:@? @7 F52:D>

```
:? E96 ) 64@?5 *6>A=6 A6C:@5 2?5 AC@46DD6D @7 D6=1-567:?:E:@? E92E E96 56DECF4E:@? @7 E96 *6>A=6 AC@5F465, E61ED =:<6 H63C6HD E92E 2AA62C 2D
```

A@=6>:42=?665 ?@E 36 D66? 2D 25G@42E:?8 E96 7:CDE C6DA@?D6 5:D4FDD65

23@G6 @C, 2E 2? 61EC6 > 6, 2?E:D6 > :E:D > (D66 6DA64:2=J H63C6HD 7.1-12; 8.7-13; 2?5 10.1-10).58 B@E9 6HD 2?5 C9C:DE:2?D ?66565 E@ C6DA@?5 E@

E96 56DECF4E:@? @7 E96 *6>A=6, H9@D6 EC2F>2E:4 67764E 42??@E 36 @G6C-6>A92D:K65. (233:?:4 F52:D> 56G6-@A65 E9C@F89 E96 \$D24C:7:46 @7 E96 962CET, :? AC2J6C 2?5 C6A6?E2?46; C9C:DE:2?:EJ DEC6DD65 E96 2E@?:?8

962CET, :? AC2J6C 2?5 C6A6?E2?46; C9C:DE:2?:EJ DEC6DD65 E96 2E@?:?8 D24C:7:46 @7 6DFD \$>256 @?46 2?5 7@C 2=I. (646?E 2C8F >6?ED 92G6 366? >256 E@ DF886DE E92E H63C6HD, HC:EE6? 27E6C E96 56DECF4E:@? @7 E96

*6>A=6, 362CD H:E?6DD E@ 2 C6DA@?D6 E@ E96 =@DD @7 E96 *6>A=6 2?5 E96 =@DD @7 E96 "6G:E:42= 4F=£. H63C6HD ?6G6C 5:D4FDD6D 6H:D9 C:EF2= AC24E:46 27E6C E96 *6>A=6ID 56DECF4E:@? 3FE 4@?7:?6D :ED6=7 E@ E96 "6G:E:42= DJDE6>

7eF?5:?) 4C:AEFC6. *9FD E96 42FE:@? DE2?5D H96? C625:?8 H63C6HD ?@E E@ \$4@?7FD6 @C 4@?7=2E6 E96 C6=8:@? @7 IDC26= P A2CE:4F=2C=J E96 4F=E:4 61AC6DD:@? @7 IDC26=E6 C6=8:@? P H:E9 F52:D > E96? (=2E6 7:CDE/62C=J D64@?5 46?EFCJ), H:E9 F52:D > ?@H, @C H:E9 F52:D > :? 86?6C2=J.59

I? H92E :E D2JD E92E 362CD 5:C64E=J @C :?5:C64E=J @? C9C:DE:2?P 6H:D9 C6=2E:@?D, E96C67@C6, E96 C9FC49 @7 E?8=2?5 D9@F=5 ?6:E96C 56?J E96 4@?E:?F:?8 A2CE:4:A2E:@? @7 6H:D9 A6@A=6 :? IDC26= 2D G@5TD 8:7E 2?5

G@5TD 4C62E:@?, ?@C < >:E E96 8C246 AC@4=2:>65 :? E96 8@DA6=@7 C9C:DE, H9:49 :D \$E96 A@H6C @7 G@5 7@C D2=G2E:@? E@ 6G6CJ@?6 H9@ 92D 72:E9, E@ E96 6H 7:CDE 2?5 2=D@ E@ E96 GC66<T. G:G6? E96D6 A2C2>6E6CD, E96C6 :D

2 4=62C 42D6 7@C AC676CC:?8 2AAC@2496D E92E 72= H:E9:? E96 C2?86 @7 E96

\$\\$\ \text{E96} 56AE9 \@7 \text{E96} \text{C:496D} 2?5 \ H:D5@> 2?5 <?@H=6586 \@7 \text{G@5!} \ H@H \\ F?D62C4923=6 2C6 9:D ;\ F586 > 6?ED 2?5 9@H :?D4CFE23=6 9:D \ H2JD! \\ \text{SF@C} \ H9@ 92D <?@H? \text{E96} >:?5 \@7 \text{E96} "@C5? \%C \ H9@ 92D 366? 9:D \\ 4@F?D6=@C?T \\ \%C \ H9@ 92D 8:G6? 2 8:7E \text{E@ 9:>}, \text{E@ C646:G6 2 8:7E :? } \\ C6EFC??T \text{F@C} \ 7@> 9:> 2?5 \text{E9C@F89} 9:> 2?5 \text{E@ 9:>} 2C6 \ 2= \text{E9:?8D}. \\ *@ 9:> 36 \text{E96} \ 8=@CJ \ 7@C6G6C. \ A>6?.\Text{I}

F@C E9@D6 25G@42E:?8 E96 D64@?5 C6DA@?D6, E9:D :D =<6=J E@ 36 C625 2D 2 EC2?DA@D:E:@? :?E@ E96 C68:DE6C @7 AC2:D6 @7 E96 2C8F > 6?E &2F= 92D 366? 42C67F=J D6EE:?8 @FE :? (@>2?D 9P11 2D 2 H9@=6. F@C E9@D6 5C2H? E@ E96 E9:C5 C6DA@?D6, 9@H6G6C, :E >2J 36 C682C565 2D 2? 24<?@H=6586 > 6?E @7 E96 =>:E @7 E92E 2C8F > 6?E: E92E H92E G@5 92D 5@?6, :D 5@:?8 2?5 H:= 5@ :? IDC26=:D 2? FEE6C=J 8=@C:@FD > JDE6CJ E92E @FC 36DE E96@=@8:42=E9:?<:?8

EC25:E:@?, E96 7@C > 6C 92D : ?4C62D: ?8=J 366? 25G@42E65 : ? C646?E &2F=?6

DEF5:6D. IE A=246D E96 H6:89E DBF2C6=J @? H92E C9C:DE 92D 5@?6 7@C FD

C2E96C E92? @? H92E H6 5@ :? C6=2E:@? E@ 9:>. ID :E E96? A@DD:3=6 E92E

D@ > 6 > 2J D92C6 :? E96 \$72:E9 @7 C9C:DET H9@ 5@ ?@E 4@?76DD E@ \$72:E9 :?

C9C:DET, 23@G6 2=E9@D6 H9@ 42=:? 72:E9 @? E96 G@5 @7 IDC26=, E@ H9@ >

\$1? E96 52JD @7 9:D 7=6D9, 6DFD @776C65 FA AC2J6CD 2?5 DFAA=:42E:@?D N

2?5 96 H2D 962C5 3642FD6 @7 9:D C6G6C6?E DF3 >:DD:@?T (H63C6HD 5.7)?

*96 F?:EJ @7 E96 C9C:DE:2? 42?@? @7) 4C:AEFC6 C6DED @? E96 :56?E:EJ @7 E96

- @C5 H9@ 3642 > 67=6D9 :? 6DFD C9C:DE H:E9 E96 - @C5 @7 G@5 C6G62=65

E@ IDC26= 244@C5:?8 E@ E96 %=5 *6DE2 > 6?E. - 92E > 2J 36 E96 4@?E:?F:?8

sa ra n of o rn ss'

- :E9:? E96 H:56 2C6?2 @7 :?E6C72:E9 C6=2E:@?D, D9@F=5 A?8=:42?D EC62E C9C:DE:2?P 6H:D9 C6=2E:@?D 2D 2 DA64:2= 42D6?⁶⁰ I? E96 4@?E6 > A@C2CJ

1? D@ 72C 2D 2? 2FE9@C:E2E:G6 D92A6 @7 A?8=42? E96@=@8:42=E6249:?8 42? 36 C64@8?:K65 2?5 2CE:4F=2E65 :? E9:D 2C62. :E E@@ C67=64ED E9:D D6?D6 @7 2 A2C25:8 > 2E:4 5:DE:?4E:G6?6DD E@ C9C:DE:2?P 6H:D9 C6=2E:@?D. J! 3/, C\$.\%0\%a*/a* M1/(\%) / 2DD6CED: \\$A C:89E F?56CDE2?5:?8 @7 E96 C6=2E:@?D9:A H:E9 F52:D>:D7F?52>6?E2=E@ C9C:DE:2?:EJTD@H? D6=7-F?56CDE2?5:?8T. 2?5 255D E92E H6 > FDE \$C6:64E 2?J G:6H @7 F52:D > H9:49 D66D :E 2D 2 =:G:?8 7@DD:=, D:>A=J DFA6CD6565 3J C9C:DE:2?:EJI.64 *96 4@>3:?2E:@? @7 E92E 277:C>2E:@? 2?5 C6:64E:@? 4@F=5 36 56D4C:365 2D \$56FE6C@-AF8FDE:?:2?I,65 :? E92E <<6)E AF8FDE:?6 @7 H:AA@ :E D66D E96@=@8:42=D:8?:7:42?46 :? E96 4@?E:?F65 61:DE6?46 @7 6H:D9 =:76 :? E96 H@C-5 27E6C C9C:DE. F@C AF8FDE:?6, E96 :>>65:2E6 BF6DE:@? H2D E92E @7 E96 4@?E:?F65 E@=6C2E:@? @7 E96 6H:D9 A6@A=6 :? 2? E>A:C6 E92E 925 364@>6=682=J C9C:DE:2?.66 AF8FDE:?6 2C8F65 E92E E96 (@>2? 2FE9@C:E:6D D9@F=5 D2768F2C5 E96 4@?E:?F2?46 @7 6H:D9 =:76, 3J 4@?EC2DE H:E9 A282?D @C 96C6E:4D. H6 56D4C:365 E96 6HD @7 9:D E:>6 2D (%b.a.%*+/0.%(\$@FC D4C:36DT)⁶⁷ 2?5 c1/0+ !/(%b.+.1) *+/0.+.1) (\$8F2C5:2?D@7@FC 3@@<DT),⁶⁸ 2 6H:D9 AC6D6?46:? C9C:DE:2? EFC@A6, 2=D@ @? E96 @E96C 92?5
4@?EC:3FE65 E@ E96 \$E6249:?8 @7 4@?E6 > AET :56?E:7:65 3J F=6D ID224
(D66 A286 15 23@G6). *9:D 2?4:6?E E6249:?8 @7 5:DA2C286 > 6?E :? EFC?
D92A65 E96 4@?5:E:@?D, 2?5 AC@G:565 > F49 @7 E96 :> 286CJ, H9:49 > 256
A@DD:3=6 E96 C:D6 @7 > @56C? EFC@A62? 2?E:D6 > :E:D > , 2=36:E E96 =2EE6C
56?:65 E96 AC:?4:A=6 @7 AC6D6CG2E:@? @7 6H:D9 A6@A=6, H9:49 H2D A2CE
@7 E96 @=56C C9C:DE:2? 2?E:- F52:D > .

F@=@H:?8 E96 =625 @7 E96) 64@?5 , 2E:42? C@F?4:= 71 A?8=.42? 5@4F >6?ED 92G6, 2D 2=C625J ?@E65, 42E68@C:42=J C6;64E65 E96 E6249:?8 @7 4@?E6 > AE 2?5 E96 2?E:D6 >:E:D > 2DD@4:2E65 H:E9 :E, :? 1988 :? T\$! Wa5 +" D%a(+#1! 2?5 282:? :? 2008 :? G! *! .+1/ L+2! .^2 I7 DF49 2 ?682E:G6 244@F?E :D C:89E=J ;F5865 E@ 36 F?2446AE23=6, C6BF:C:?8 2 4=62C 3C62< H:E9 >F49 @7 AF8FDE:?6ID =6824J :? E9:D > 2EE6C, 9@H >:89E 9:D 7F?52 >6?E2= 4@ >>:E>6?E E@ D66:?8 E96@@8:42=D:8?:7:42?46 :? F52:D > , +/0 C\$.\%01) 7:?5 61 AC6DD:@? E@52J 2?5 E96C63J 4@?EC:3FE6 E@ 7:=:?8 @FE E96 A2C2 >6E6CD 7@C E96 C9FC49 @7 E?8=2?5ID F?56CDE2?5:?8, 2D 56D4C:365 :? E96 AC6G:@FD D64E:@??^3

I? (@>2?D 9P11, 5:D4FDD65 :? E96 AC6G:@FD D64E:@?, &2F=:D HC6DE:?8 2E 6G6CJ =6G6-, 7C@> 2FE@3:@8C2A9J E9C@F89 E96 =76 @7 E96 ?2D46?E C9C:DE:2? 4@>>F?:EJ, FA E@ E96 5:G:?6 AFCA@D6 7@C IDC26=, H:E9 E96 492=6?86 @7 C64@?4:=?8 9:D @H? :56?E:EJ 367@C6 G@5. &2F= 4=62C=J :56?E:7:6D 2D 2 6H :? E96 AC6D6?E E6?D6 E9C@F89@FE 9:D =6EE6CD (&9:=AA:2?D 3; 2 C@C:?E9:2?D 11; (@>2?D 11) 2?5 J6E 96 2=D@ :56?E:7:6D 2D @?6 H9@ 92D 366? \$4CF4:7:65 H:E9 C9C:DET 2?5 H9@ :D 2? 2A@DE=6 H:E9 72:E9 :? C9C:DETD D2G:?8 A@H6C.) F49 :56?E:E:6D 2C6 2E E96 962CE @7 &2F=ID DECF88=6 2D E9C@F89@FE 9:D =6EE6CD 2?5 6DA64:2=J :? (@>2?D 96 EC:6D E@ C64@?4:=6 E96>. +=E:>2E6=J, 96 42??@E 5@ D@ @E96C E92? 3J 72=;?8 :?E@ H@?56C, =@G6 2?5 AC2:D6:

\$\\$ E96 56AE9 @7 E96 C:496D 2?5 H:D5@> 2?5 <?@H=6586 @7 G@5! H@H F?D62C4923=6 2C6 9:D;F586>6?ED 2?5 9@H:?D4CFE23=6 9:D H2JD!T ((@>2?D 11.33).

*96 =6EE6C E@ E96 EA96D:2?D:56?E:7:6D E96 C64@?4:=2E:@? 36EH66? IDC26=2?5 E96 ?2E:@?D E9C@F89 E96 4C@DD 2D =J:?8 2E E96 962CE @7 E96 8@@5 ?6HD (EA96D:2?D 2.11-22). \$*96 > JDE6CJ @7 C9C:DET :D E92E \$E96 G6?E:=6D 92G6 364@>676=@H-96:CD, >6>36CD @7 E96 D2>6 3@5J, 2?5 D92C6CD :? E96 AC@>:D6:? C9C:DE 6DFD E9C@F89 E96 8@DA6=[CA96D:2?D 3.3, 6). *96 C9FC49 :D 3@C? 7C@> E9:D F?:@? :? H9:49 ?6:E96C 6H ?@C G6?E:=6 42? 4=2:> E@ 36 E96 ?@C> 7@C E96 @E96C. IED 86?6C2E:G6 A=FC:7@C>:EJ E9C@F89 9:DE@CJ C6DED @? C6?56C:?8 A624623=6 E96 :CC65F4:3=6 \$@E96C?6DDT @7 IDC26=2?5 E96 ?2E:@?D:? E96 @?6 3@5J @7 C9C:DE (EA96D:2?D 2.14-16). *96 G:D:@? @7 EA96D:2?D 7256D BF:4<=J :? E96 7@=@H:?8 46?EFC:6D, 2D E96 G6?E:=6->2;@C:EJ C9FC49 5:D4@FC286D @C 6G6? D66<D E@ 32? 2?J 61AC6DD:@? E9C@F89 *@C29 @3D6CG2?46 @7 E96 \$@E96C?6DDT @7 IDC26=H:E9:? :ED =76. *92E :D ?@E E@ D2J, 9@H6G6C, E92E E96 G:D:@? 5:D2AA62CD 2=@86E96C.

IE :D H@CE9 2E F9:D A@:?E C642=:?8 C2C5:?2=! 2DA6CID 56D4C:AE:@? @7 F52:D> 2D 2 SD24C2>6?E @7 6G6CJ @E96C?6DDT. \$@E 2=A?8=42?D H:=7:?5 E9:D=2?8F286 4@?86?:2=(?@C, :?5665, 2= (@>2? C2E9@=:4D), 3FE E96 A@:?E 36:?8 > 256 :D E92E 2 D24C2>6?E :D 2 5:G:?6=J 6DE23=D965 D:8? E92E C6=23=J 4@?G6JD E@ C9C:DE:2? 36=6G6CD E96 8C246 2?5=76 @7 G@5. *@ DA62< @7 6H:D9 A6@A=6 :? E96 =2?8F286 @7 SD24C2>6?E :D E9FD E@ D2J E92E 6?4@F?E6C H:E9 E96 > 42? 36 7@C C9C:DE:2?D 2 D@FC46 @7 3=6DD:?8, 2 H2J @7 36:?8 42=65 324< E@ 9@=:?6DD, 2 A@:?E @7 4@??64E:@? H:E9 E96 AC@>:D6D @7 G@5. I?5665, 2D 2 D24C2>6?E 92D 23@FE :E E96 7FCE96C 492C24E6C @7 C6=23:=EJ 32D65 @? G@5ID A=6586, DF49 6?4@F?E6C :D 2? 2DDFC65 D:8? @7 8C246 D6E H:E9:? 2 C6=2E:@?D9:A @7 5:G:?6 AC@>:D6 2?5

```
9F > 2? (6DA@?D6: :E :D E96@=@8:42=J =@42E65 H:E9:? E96 4@G6?2?E G@5 92D > 256 H:E9 9:D A6@A=6. - 9:=6 H6 > FDE 36 @A6? E@ E96 A@DD:3:=EJ @7 G@5TD 8C246 @A6C2E:?8 :? > 2?J 7@C > D @7 =76 @FED:56 E96 C9C:DE:2? C9FC49, :?4=F5:?8 > 2?J C6=8:@?D, E@ DA62 < @7 2 $D24C2 > 6?E @7 @E96C?6DDT :D E@ D2J > @C6 E92? E9:D. IE :D E@ D2J E92E 6?4@F?E6C H:E9 E96 4@?E6 > A@C2CJ C62=EJ @7 E96 72:E97F=?6DD @7 6H:D9 A6@A=6 P :? C625:?6DD E@ =62C? 3J 2EE6?E:G6 =DE6?:?8 2?5 E@ 36 DFCAC:D65 3J H92E :D C646:G65 P 42? 36 4@?7:56?E=J C6=65 @? E@ 36 2 > 62?D @7 G@5TD 8C246 E@ FD 2?5 2? @442D:@? 7@C E96 C6?6H2=@7 @FC @H? 72:E9, 2D H6 61 A6C:6?46 :? DF49 > 66E:?8 E96 :?E6CEH:?:?8 @7 3@E9 @FC <:?D9:A 2?5 @FC 5:G6C86?46.
```

IE:D?@E, E96C67@C6, 2 > 2EE6C @7 D: > A=J @G6C4@ > :?8 @C D6EE:?8 2D:56 E96 5:G6C86?46 7@C 2 > @ > 6?E @7 F?5:=FE65 < :?D9:A. - 92E > 2 < 6D E9:D A@DD:3=6 :D E96 G6CJ 5:776C6?46 @7 F52:D > 7C@ > C9C:DE:2?:EJ. 6H:D9 A6@A=6, 3J E96 4@?E:?F:EJ 2?5 G:E2=EJ @7 E96:C 61:DE6?46, 567J 2= 2EE6 > AED E@ C65F46 E96 > E@ > 6C6 362C6CD @7 C9C:DE:2? > 62?:?8, E@ 244@ > > @52E6 E96 > 4@ > 7@CE23=J H:E9:? 2 C9C:DE:2? F?:G6CD6 @7 5:D4@FCD6; J6E ?6:E96C 42? E96J 36 = 67E @FED:56 :E P E96 \$72 > :=JT C6=2E:@?D9:A C6 > 2:?D. IE:D AC64:D6=J E9C@F89 E9:D :CC65F4:3:=EJ E92E E96J 42? 36 D2=FE2CJ E@ FD 2D C9C:DE:2?D, H96? H6 E@@ C625:=J D66 < E@ 61A=2:? 5:776C6?46 :? E6C > D 72 > :=2C E@ @FCD6=G6D.74 #@C6@G6C, E96C6 :D 2 H:56C 2AA=42E:@? 7@C C9C:DE:2?D :? :?E6C72:E9 C6=2E:@?D @7 E9:D \$C6EFC? @7 E96 6H:D9 @E96CT, D:?46 :E :D :? C6 > 6 > 36C:?8 2?5 C6G:D:E:?8 E9:D 7:CDE 2?5 F?:BF6 6?4@F?E6C H:E9 :CC65F4:3=6 5:776C6?46 H:E9?? 2 C6=2E:@?D9:A @7 G@5-8:G6? < :?D9:A E92E

T olog and ra i r r s n ing ris ian / is r la ions i

I? C9C:DE:2? 2CE @7 E96 #:55=6 A86D, E96 C9FC49 (! cc(! /%a) 2?5
E96) J?28@8F6 (/5*a#+#a) H6C6 A6CD@?:7:65 2D EH@ H@>6?, @7
4@?EC2DE:?8 7@CEF?6D. *96 C9FC49 :D D9@H? 6C64E 2?5 EC:F>A92?E,
362C:?8 2 4C@DDDD) D) (9)10 (6)10.5.2 (C004 (9DE (9)9.9 (2)10.2 (?)10 6)10)10 (

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T+ 3$a0!40!*0 +!/0$! /c1(,01.! ".+) S0 J+/!,$9/.!"(!c0 3$a0 0$!.!(a0\%*/$\% b!03!!* C$.\%0\%a*\%05 a* J1 a\%) $a/b!!* (\%!? H+3 3!(( +!/\%!4,.!// C$.\%0\%a*\$+,!/"+. 3$a0 0$a0 .!(a0\%*/$\%) \#$0 b!c+)! 0+ a5?
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Рт

ri i al ss s

ffir a ions
*96 5:DE:?4E:G6 C6=2E:@?D9:A @7 <:?D9:A 2?5 5:G6C86?46 36EH66?

Critical Issues

*96 E6C > S > :DD:@?I 92D 366? 61A=@65 :? 8C62E 56AE9 :? C9C:DE:2? E96@=@8J :? C646?E 564256D. IE 92D 24BF:C65 2 C:49 C2?86 @7 > 62?:?8 C@@E65 :? E96 D6?5:?8 3J E96 F2E96C @7 E96 5:G:?6) @? 2?5) A:C:E 7@C E96 D2=G2E:@? @7 E96 H@C=5. A?8=42?D 92G6 364@>6 72>:=2C H:E9 E96 SF:G6 #2C<D @7 #:DD:@?I 2D @?6 H2J E@ 6?42ADF=2E6 9@H E96 C9FC49 A2CE:4:A2E6D :? E96 >:DD:@? @7 G@5. 2D D6E @FE :? E96 SA77:C>2E:@?DI 23@G6.75

96 3C625E9 @7 E9:D F?56CDE2?5:?8 @7 >:DD:@? AC@G:56D D4@A6 7@C 4@?D:56C:?8 H2JD:? H9:49 C9C:DE:2?D > 2J D92C6:? G@5TD >:DD:@? H:E9 E9@D6 @FED:56 E96 C9FC49. :?4=F5:?8 @E96C 72:E9D. I? D64E:@? 3 @7 :ED E(62E > 6?E @7 E96 S- 2J @7) 92C:?8T. E96 A?8=42? C@> > F?:@? 5@4F > 6?E $J! 3/, C\$.\%0\%a^/a^* M1/(\%) /: T\$! Wa5 + "D\%a(+#1! DE2E65: \S 6HD,$ #FD=: >D 2?5 C9C:DF:2?D 92G6 2 4@> >@? >:DD:@?. *961 D92C6 2 >:DD:@? E@ E96 H@C=5 E92E G@5TD ?2>6 >2J 36 9@?@FC65: 0H2=@H65 36 J@FC ?2>6.RI⁷⁶ AD H6= 2D E96 92=@H;?8 @C D2?4E;7:42E;@? @7 G@5ID ?2>6. E96 C9C:DF:2?: > A6C2F:G6 F@ D66< F96 <:?85@ > @7 G@5:D @?6 F92F 42? 92G6 6DA64:2=C6D@?2?46 7@C 6HD, 2D E96 6H:D9 4@?46AE @7 0% ' 1* +(a) (\$>6?5:?8 E96 H@C=5T) > 2J 92G6 7@C C9C:DE:2?D. *96 A@E6?E:2=7@C 7CF:E7F= :?F6C492786 36FH66? 6HD 275 C9C:DF:27D @? F96 4@?46AF @7 >:DD:@? 92D 366? 61A=@C65 :? 2 AF3=42E:@? E92E 6>6C865 7C@> E96 "2>36E9- 6H:D9 $F@CF > 7@C C9C:DE:2?P 6H:D9 5:2=@8F6.^{77} - :E9 C682C5 E@ E96 E9:C5, 7@FCE9$ 2?5 7:7E9 \$#2C<D @7 #:DD:@?T. E96C6 :D 2 568C66 @7 @G6C=2A H:E9 E96 D:8?:7:42?E A@E6?E:2=7@C 4@>>@? 8C@F?5 36EH66? C9C:DE:2?:EJ 2?5 F52:D>:? 6E9:42=F?56CDE2?5:?8 2?5 >@C2=24E:@?. 255C6DD65:? E96 7:?2=492AF6(; 36=@H.

*9:D 492AE6C 7@4FD6D :?DE625 @? D@>6 @7 E96 5:77:4F=E BF6DE:@?D E92E @44FC :? E9:D 2C62 H:E9 C682C5 E@ E96 7:CDE EH@ \$#2C<D @7 #:DD:@?T, H9:49 2C6 =:?<65 5:C64E=J E@ C9C:DE:2? AC24E:46D @7 6G2?86=:D> E92E D66< E@ D92C6

E96 8@DA6=@7 C9C:DE H:E9 E9@D6 H9@ 92G6 ?@E C646:G65 :E 2?5 E@ 2DD:DE E96 > :? 364@ > :?8 9:D 5:D4:A=6D. ID :E C:89E E92E C9C:DE:2?D 6?8286 :? 662?86=D > 2D E9FD F?56CDE@25 H:E9 6H:D9 A6@A=6 H9@ 92G6 ?@E 6 > 3C2465 E96 C9C:DE:2? 72:E9? *9:D :D 2 BF6DE:@? E@ H9:49 > 2?J C9C:DE:2?D H@F=5 E9:? < E96 2?DH6C :D @3G:@FD P 7@C D@ > 6, @3G:@FD=J J6D, 2?5 7@C D@ > 6, @3G:@FD=J ?@. I7 :E 42? 36 2 4@?EC@G6CD:2=DF3;64E :? C9C:DE:2? 4:C4=6D, :E :D 2=D@ 2 9:89=J D6?D:E:G6 @?6 7@C C9C:DE:2?P 6H:D9 C6=2E:@?D, 2D H:= 36 61 A=2:?65 > @C6 7F=J 36=@H. - 9:=6 E96C6 2C6 2 C2?86 @7 5:776C6?E 724E@CD E@ 36 4@?D:56C65, E96 2:> @7 E9:D 492AE6C :D E@ D6E @FE D@ > 6 E96@=@8:42=A2C2 > 6E6CD, 32D65 @? E96 7C2 > 6H@C 6DE23=D965 :? &2CF L@7 F96 C6A@CF.

IF > 21.36 FD67F=F@ 368:? 31.66G:6H:?8 F96 7@FC C9C:DF:2? C6DA@?D6D @FF=?65:? C92AF6C2 F@ 6H:D9 4=2:>D F@ 36=@?8 F@ G@5TD 49@D6? A6@A=6 IDC26=D:?46 E96 E:>6 @7 C9C:DE, :? E6C>D @7 E96:C:>A=:42E:@?D 7@C E9:D BF6DE:@?. F@C E96 7:CDE C6DA@?D6, E96 F?BF2=7:65 56?:2=@7 E92E 4=2:>, E96C6 H@F=5 36 ?@ C62D@? E@ C682C5 6H:D9 A6@A=6 2?J 5:776C6?E=J 7C@> 2?J@?6 6=D6 H9@ :D @FED:56 E96 C9FC49 H96? :E 4@>6D E@ D66<:?8 E96:C 4@?G6CD:@?. *96 2?DH6C:D E96C67@C6 E96 D2>6 7@C E96> 2D 7@C 2?J@?6 6-D6 :? E9:D 42E68@CJ. F@C E96 7@FCE9 C6DA@?D6, E96 F?BF2=7:65 277:C>2E:@? @7 E92E D2>6 4=2:>, 4@?G6CD:@? E@ C9C:DE:2? 72:E9 E92E 3C:?8D 6H:D9 A6@A=6 :?E@ E96 C9FC49 :D :7 2?JE9:?8 E@ 36 24E:G6=J 2G@:565, 2D G@5TD AFCA@D6 7@C E96 6H:D9 A6@A=6 :D E@ C6 > 2:? D6A2C2E6 7C@ > P :7 A6C92AD DE:=:? D@>6 H2J C6=2E65 E@ P E96 =:76 @7 E96 C9FC49. #@C6@G6C, E96C6:D D: > A=J ?@ ?665 7@C 6H:D9 A6@A=6 F@ 6?F6C: ?F@ 2 C6=2F:@?D9:A H:F9 C9C:DE. D@ 2?J <:?5 @7 H:E?6DD E@ E96 8@DA6=92D ?@ A@:?E. AD :E H2D 4@?4=F565 E92E 3@E9 E96D6 C6DA@?D6D 2C6 :? G2C:@FD H2JD :?256BF2E6 :? E96 =:89E @7 C9C:DE:2? 5@4EC:?6. :E > 2J 36 61A64E65 E92E E96 4@?4=FD:@?D E92E 7@=@H

Critical Issues

*96 D64@?5 2?5 E9:C5 C6DA@?D6D H6C6 C682C565 2D 6?4@>A2DD:?8 2 C2?86 @7 A@D:E:@?D. 36EH66? H9:49 E96C6 H@F-5 36 D:8?:7:42?E 5632E6 2?5 :?5665 5:D28C66>6?E. 3FE E92E 2C6 3C@25=J 4@?D@?2?E H:E9 E96 C9FC49 @7 E?8=2?5TD F?56CDE2?5:?8 @7 5@4EC:?6. F@C 3@E9 A@D:E:@?D, E96 F?:G6CD2=EJ @7 E96 8@DA6= 2D 8@@5 ?6HD 7@C 2=:D 277:C>65. *96)@? @7 G@5 3642>6 :?42C?2E6 E@ 3C:?8 7F=?6DD @7 =76 7@C 2=, 2?5 E96 C9FC49 :D 42=65 E@ H:E?6DD F@ E92E. *96 AC:>2CJ 2:> @7 DF49 H:E?6DD :D ?@E F@ C6A=42F6 @FC C6=2E:@?D9:A E@ G@5 :? @E96CD. 3FE E@ A@:?E E96> 72:E97F=J E@ C9C:DE. *96 (@=6 @7 F96 H:F?6DD:D D:>A=J F@ 36 72:F97F=:? F92F A@:?F:?8 2H2 J 7(@> D6=7 E@ E96 @?6 H9@ 92D DA@<6? 2?5 24E65.) F49 H:E?6DD E@ C9C:DE ?665 ?@E :?G@=G6 H@C5D, 3FE ?6:E96C H:=:E 36 27C2:5 E@ 8:G6 2? 244@F?E @7 :ED6=7 H96? :?G:E65 E@ 5@ D@. H@H @E96CD C6DA@?5 E@ E96 H:E?6DDTD E6DE: >@?J :D ?@E E96 4@?46C? @7 E96 H:E?6DD 2D DF49, E9@F89 3642FD6 E9:D :D 36=6G65 E@ 36 E96 ECFE9 E92E D6ED A6@A=6 7C66. E96C6 H:= 36 2 56D:C6 7@C @E96CD E@ D66 E92E ECFE9 2?5 <?@H E92E 7C665@>. H:E9@FE 36:?8 23=6 E@ AC65:4E H92E E92E > :89E > 62? :? 6G6CJ 42D6.

*92E C9C:DE:2?D D9@F=5 362C H:E?6DD E@ C9C:DE:? E9:D D6?D6:? E96:C C6=2E:@?D H:E9 6H:D9 A6@A=6:D E96C67@C6 E@ 36 61A64E65. - 96C6 E96C6 :D @AA@CEF?:EJ 7@C 5:2=@8F6 23@FE > 2EE6CD @7 72:E9:? E9:D 4@?E61E, E96 A2C2 > 6E6CD D6E @FE:? C92AE6C 2 > 62? E92E C9C:DE:2?D H:= H2?E E@ C6 > 6 > 36C H:E9 8C2E:EF56 E92E 6H:D9 A6@A=6 DE2?5:? 2 F?:BF6 C6=2E:@?D9:A E@ E96 G@5 @7 IDC26= H9@ 92D 5C2H? ?62C E@ FD:? C9C:DE. - 96C6 E96C6:D 2? @A6?:?8 7@C H:E?6DD E@:?4=F56 H@C5D, :E H:= E96C67@C6 36:? E96 4@?E61E @7 2 5:2=@8F6:? H9:49 C9C:DE:2?D 61A64E E@ =62C? 2?5 C646:G6 7C@ > 6H:D9 A2CE:4:A2?ED. 6H:D9 A6@A=6 92G6 2=D@ 366? 42=65 E@ 362C H:E?6DD E@ G@5; C9C:DE:2?D H:= 36 4@?46C?65 E@ 2EE6?5 E@ E92E H:E?6DD 2=D@ H96?6G6C E96C6:D 2? @442D:@? 9F > 3=J E@ @776C E96:C @H?. *96J > 2J 61A64E DF49 6?4@F?E6C:? 72:E9 36EH66? C9C:DE:2?D 2?5 6HD

@AA@CEF?:E:6D E@ DA62< H:E9 6H:D9 A6@A=6 23@FE > 2EE6CD @7 72:E9 2D @442D:@?D 7@C C9C:DE:2?D E@ =:DE6?, C646:G6 2?5 =62C? 7C@ > E96 H:E?6DD @7 @E96CD, H9:=6 2=D@ 362C:?8 H:E?6DD E96 > D6=G6D E@ G@5TD 8C246 S:? 2 9F > 3=6 2?5 D6?D:E:G6 > 2???6CT.79 *96 : > A@CE2?46 @7 5:2=@8F6 2D E96 AC@A6C 4@?E6TE 7@C C9C:DE:2?P 6H:D9 C6=2E:@?D H2D DA64:7:42=J 9:89=:89E65 :? E96 2CC2?86 > 6?E @7 (6D@=FE:@? 37 @7 E96 1978 "2 > 36E9 C@?76C6?46, H9:49 DE2E6D:

- 1. :E9:? E96 C9FC49ID ECFDE @7 E96 G@DA6=, H6 C64@8?:K6 2?5
 H6=4@>6 E96 @3=:82E:@? E@ @A6? 61492?86 @7 E9@F89E 2?5
 61A6C:6?46 H:E9 A6@A=6 @7 @E96C 72:E9D.) 6?D:E:G:EJ E@ E96 H@C<
 @7 E96 H@=J) A:C:E 2>@?8 E96> >62?D 2 A@D:E:G6 C6DA@?D6 E@
 E96:C >62?:?8 2D :?H2C5=J =G65 2?5 F?56CDE@@5. IE >62?D 2=D@
 2 BF2=EJ @7 =76 @? @FC A2CE H9:49 61AC6DD6D E96 ECFE9 2?5 =@G6
 @7 G@5 2D H6 92G6 <?@H? E96> :? C9C:DE, "@C5 2?5) 2G:@FC.
- 2. 6 C62±K6 E96 ±G6±J G@42E:@? E@ E96@±@8:42=:?E6CAC6E2E:@?, 4@>>F?:EJ:?G@±G6>6?2 (C) - 4.6 (6)5 (,) (G)9.8 (=) - 5 ()65 (:) - 5.5 @7 (:) - 5.5?

2?E:D6>:E:D>. *9@D6 H9@, H:E9 E96 3:D9@AD @7 E96 1897 "2>36E9 C@?76C6?46, H2?E E@ DFAA@CE \$E96 6G2?86=D2E:@? @7 E96 6HDT ?665 E@ F?56CDE2?5 E92E 6H:D9 A6@A=6 7:?5 DF49 =2?8F286 AC@7@F?5=J

C9C:DE:2?D 6?828:?8 :? DF49 5:2=@8F6 D9@F=5 ?@E 36 27C2:5 E@ DA62< @7 E96 8=@CJ E96J D66 :? C9C:DE, H9:=6 2=D@ 36:?8 2EE6?E:G6 E@ E96 5:776C6?E A6CDA64E:G6D 6H:D9 C6256CD H:= 3C:?8 E@ A2DD286D @7 D92C65) 4C:AEFC6 C9C:DE:2?D > 2J C6=2E6 E@ G@5TD H@C< :? 9:>.85

I? C9C:DE:2? 9:DE@CJ, 2=@?8D:56 E96 D92>67F=244@F?ED @7 7@C465
4@?G6CD:@?D E@ C9C:DE:2?:EJ 2?5 4@?G6CD:@?D 7C@> F52:D> 2D AC24E:42=
244@>>@52E:@?D E@ C6=8:@FD 2?5 4F=EFC2=5:D25G2?E286 2?5 2G@:52?46
@7 5:D4C:>:?2E:@?, E96C6 2C6 2=D@ DE@C:6D @7 7C66 2?5 86?F:?6 4@?G6CD:@?D
3J 6HD E@ E96 H2J @7 6DFD C9C:DE, 2D E96C6 2C6 DE@C:6D @7 C9C:DE:2?D

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*96 C9F(49 @7 E?8=2?5 92D :ED @H? 9:DE@CJ @7 6G2?86=D>
DA64:7:42=J 255C6DD65 E@ 6H:D9 A6@A=6. *96 "@?5@?)@4:6EJ 7@C
AC@>@E:?8 C9C:DE:2?:EJ 2>@?8 E96 6HD (")C) H2D 7@F?565 :?
1809 H:E9 E96 DFAA@CE @7 AC@>:?6?E A?8=42? EG2?86=42=D 2D 2
>:DD:@?2CJ D@4:6EJ 7@C E96 4@?G6CD:@? @7 6H:D9 A6@A=6, 2D H6= 2D
65F42E:?8 E96 C9F(49 23@FE :ED 6H:D9 C@@ED, 2?5 :E 92D ?F>36C65
?@E23=6 A?8=42? DFAA@CE6CD @G6C E96 J62CD. AE :ED A62< :? 1914 :E
925 2C@F?5 280 >:DD:@? DE277, H:E9 2C@F?5 2 E9:C5 @7 E9@D6 36:?8
@7 6H:D9 56D46?E.

") C 92D F?56C8@?6 492?86D :? ?2 > 6 D:?46 :ED 6DE23 :D9 > 6?E :? E96 ?:?6E66?E9 46?EFCJ E92E A@:?E E@ E96 492?8:?8 4@?E61E 7@C :ED 4@?E:?F:?8 H@C <. IE 3642 > 6 C# , C9FC49 #:DD:@?D E@ 6HD, E96? *96 C9FC49ID #:DD:@? E@ E96 6HD, ?61E0*96 C9FC49ID #:?:DECJ A > @?8 E96 6HD,02?5 7:?2 = J, E@52J, *96 C9FC49ID #:?:DECJ A > @?8 6H:D9 &6@A=6.0*96D6 D9:7ED :? ?2 > 6 C6G62 = D@ > 6E9:?8 @7 E96 BF6DE:@?D 2C@F?5 E96 ?2EFC6 @7 E96 C9C:DE:2? C6=2E:@?D9:A H:E9 6H:D9 A6@A=6 H96C6 2 E2D < @7 >:?:DECJ, 36:?8 H:E9, 2?5 2 > @?8, D66 > D E@ 36 2 > @C6 2AAC@AC:2E6 2AAC@249 E92? 2 >:DD:@? E@. C92?8:?8 2EE:EF56D 2C6 2 D@ C67=64E65 :? E96 564:D:@? E2<6? :? 1992 3J E96 ?6H AC493:D9@A @7 C2?E6C3FCJ, DC G6@C86 C2C6J, E@ 6?5 150 J62CD @7 EC25:E:@? 2?5 564=?6 E@ 364@ > 6 E96 A2EC@? @7 E96 492C:EJ. F@C 2? @G6CG:6H @7 C# E@52J, D66 E96 H63D:E6 2E HHH.4 > ::@C8.F < / 23@FE/.

I* 3\$a0 3a5/ % 0\$! #+/,!(+" J!/1/ C\$.%0 #++ *!3/"+. J! 3%\$,!+,(!?

S\$+1(%b! /\$a.! , a* %' /+, %* 3\$a0 c+*0! 40/?

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I? E6249:?8, AC6249:?8, =EFC8J 2?5 >@C6:??@C>2= >@56D @7

4@>>F?:42E:@? H:E9:? E96:C 4@>>F?:E:6D, C9C:DE:2?D, 4=6C8J 2?5
=2J, D9@F=5 AC@G:56 2 ECFE97F=2?5 244FC2E6 C6AC6D6?E2E:@? @7

3:3=42=2?5 (233:?:4 F52:D> 2?5 @7 6DFD 2D 2 6H @7 9:D E:>6

H9@ 42>6 ?@E E@ 56DEC@J E96 "2H 2?5 E96 &C@A96ED 3FE E@ 7F=7:=
E96>. *9:D C6BF:C6D 2H2C6?6DD @7 E96 DF3DE2?E:2=E96@=@8:42=2?5

D4C:AEFC2= 4@?E:?F:E:6D 36EH66? F52:D> 2?5 C9C:DE:2?:EJ 2D H6=
2D F?56CDE2?5:?8 @7 E96 ?6H E9:?8 E92E G@5 92D 5@?6:? C9C:DE.
)6?D:E:G:EJ:D ?66565 E@:>A=:4:E @C 61A=4:E C676C6?46D E@ 6HD
@C F52:D> :? =EFC8J 2?5 :? E96 AF3=4 C625:?8 @7) 4C:AEFC6,
:? 9J>?@5J 2?5 :? 2CE:DE:4 C6AC6D6?E2E:@?D, H9:49 42? 36
>:DF?56CDE@@5 @C 42? C6:?7@C46 AC6;F5:46D. - 96? C9C:DE:2?D

D66< E@ 5C2H A@D:E:G6=J @? 6H:D9 =EFC8J 2?5 EC25:E:@?D 7@C

C9C:DE:2? H@CD9:A, E96J D9@F=5 5@ D@ H:E9 2H2C6?6DD E92E

F52:D> :D 2 =G:?8 2?5 56G6=@A:?8 C6=8:@? H:E9 :ED @H?:?E68C:EJ.

AD E96 49FC496D 92G6 D@F89E E@ C6AF5:2E6 E96@=@8:42= A6CDA64E:G6D E92E 92G6 8:G6? =68:E: > 2E:@? E@ 2?E:D6 > :E:D > , :?4=F5:?8 E96 \$E6249:?8 @7 4@?E6 > AEI, 2?5 E@ 277:C > E96 4@?E:?F:?8 A=246 @7 E96 6H:D9 A6@A=6 H:E9:? E96 AFCA@D6D @7 G@5, BF6DE:@?D 23@FE 9@H E@ E6249 2?5 AC6249 E96 72:E9 92G6 4@ > 6 F?56C 42C67F= D4CFE:?J. *@ H92E 61E6?E 5@6D E6249:?8 2?5 AC24E:46 E92E A2DD6D @? C9C:DE:2? 72:E9 P 7C@ > D6C > @?D 2?5 49FC49-32D65 65F42E:@? E@ 9J > ?@5J 2?5 :4@?@8C2A9J P 2=D@ A2DD @?, 9@H6G6C :?25G6CE6?E=J, 2? 2?E:- F52:D > E92E :D FD65 E@ AC@G:56 2 C2E:@?2=6 7@C

2?E:D6>:E:D>? - 96C6 E61ED @C @3;64ED 42? 36 F?56CDE@@5 :? H2JD E92E 2C6 ?@ -@?86C 2446AE23-6, D9@F-5 E96J 36 C6?56C65 :?4@?DA:4F@FD @C C6>@G65 2=E@86E96C, 42? E96J 36 2=E6C65 2?5 252AE65, @C :D E96 D@=FE:@? E@ AC@G:56 2 4=62C 4@>>6?E2CJ @? 3@E9 E96:C A2DE 9:DE@CJ 2?5 E96:C 4@?F6>A@C2CJ :?F6CAC6F2F:@??

*96 (@>2? C2E9@=:4 C9FC49 92D E2<6? 2 =625 :? 255C6DD:?8 E96D6 :DDF6D. BF:-5:?8 @? E96 8C@F?5-3C62<:?8 AC:?4:A=6D @7 N+/0.a A! 0a0! (1965), E96 , 2E:42? C@>>:DD:@? 7@C (6=8:@FD (6=2E:@?D H:E9 6HD :DDF65 8F:52?46 7@C AC6249:?8 2?5 42E6496D:D :? 1985 E92E 6>A92D:K65 E96 ?665 E@ 65F42E6 282:?DE 2?E:D6>:E:D>. 88 *96 - @C=5 C@F?4:=@7 C9FC496D 92D 2=D@ AF3=D965 2 D6C:6D @7 C6=6G2?E 5@4F>6?ED, :?4=F5:?8 \$E4F>6?:42=C@?D:56C2E:@?D @? 6H:D9PC9C:DE:2? D:2=@8F6I (1982).)64E:@? 3.2 ?@E6D:

*6249:?8D @7 4@?E6 > AE 7@C 6HD 2?5 F52:D > :? 46CE2:? C9C:DE:2? EC25:E:@?D AC@G65 2 DA2H?:?8 8C@F?5 7@C E96 6G:= @7 E96 \$2K: He=@42FDE. *96 C9FC49 > FDE =62C? D@ E@ AC6249 2?5 E6249 E96 G@DA6= 2D E@ > 2<6 DFC6 E92E :E 42??@E 36 FD65 E@H2C5D 4@?E6 > AE 7@C F52:D > 2?5 282:?DE E96 6H:D9 A6@A=6.89

I? 2? A?8=42? 4@?E61E, J! 3/, C\$. ₩0%a*/ a* M1/(%) /, 7@> E96 1988
"2>36E9 C@?76C6?46, 6>A92D:K65 E96 ?665 7@C 4@?E:?F65 612>:?2E:@?
@7 E6249:?8 2?5 AC6249:?8. *96 C9FC49 @7 E?8=2?5ID 5:D4FDD:@?
5@4F>6?E S\$a. %*# O*! H+, !? 2=D@ 9:89=89E65 E96 :>A@CE2?46 @7 =:EFC8J
2?5>:?:DE6C:2=EC2:?:?8 :? E9:D C6DA64E.90 C+)) +* W+./\$%; T%)!/ a*
S! a/+*/, :? :ED :?EC@5F4E:@? E@ E96 D62D@? @7 &2DD:@?E:56 2?5 H@=J - 66<,
:?4=F56D 2 A2C28C2A9 @? E96 9:DE@C:4 C@=6 @7 E9:D D62D@? :? 6?4@FC28:?8
9@DE:=EJ E@ 6HD.91 IE 6>A92D:K6D E96 :>A@CE2?46 @7 36:?8 \$D6?D:E:G6 E@

- E96 H2JD:? H9:49 2? F?C67=64E:?8 FD6 @7 EC25:E:@?2=E61ED (<<6 E96 (6AC@2496D) 42? A6CA6EF2E6 2 DEC2:? @7 C9C:DE:2? 2?E:-) 6>:E:D>T. *96 4@=64E 7@C G@@5 FC:52J:? E96 B@@< @7 C@>>@? &C2J6C C676CC:?8 E@ \$2=6HD, *FC<D, 1?7:56=D 2?5 H6C6E:4<DT 5@6D ?@E 2AA62C:? C6G:D65 =:EFC8:6D.
- *CFE97F= 2?5 244FC2E6 C6AC6D6?E2E:@? @7 6HD 2?5 F52:D> :? C9C:DE:2? E6249:?8 96=AD E@ 5:D6?E2?8=6 E96 E6249:?8 @7 E96 8@DA6=7C@> E96 =6824J @7 2?E:- F52:D> 2?5 2?E:D6>:E:D>, 2?5 E@ 7@DE6C C6DA64E 2?5 =@G6 7@C E96 6H:D9 A6@A=6 E9C@F89 H9@> G@5 24E65 :? 6DFD.) F49 C:8@FC 2?5 244FC24J H:= 2G@:5 2?J =:?86C:?8 AC6D6?46 @7 E96 \$E6249:?8 @7 4@?E6>AET E92E 92D D@>6E:>6D 492C24E6C:K65 E96 A6CDA64E:G6 @? 6HD H:E9:? C9C:DE:2? H@CD9:A.92 "2J 2?5 @C52:?65 E62496CD 2?5 AC62496CD, :?4=F5:?8 E9@D6 H9@ H@C< H:E9 49:=5C6? 2?5 J@F?8 A6@A=6, 92G6 2 A2CE:4F=2C C6DA@?D:3:=EJ E@ 4@CC64E F?ECF6 ?682E:G6 :>286D @7 F52:D> :? E96:C :?E6CAC6E2E:@? 2?5 61A@D:E:@? @7 3:3:=42=E61ED.

A6CG6CD:@? @7 ECF6 72:E9 :? G@5. IC@?:42=J, 6G6? E96 A2C23=6 @7 E96 G@65) 2 > 2C:E2?, H:E9 :ED C@@ED :? D6FE6C@?@ > J, :=FDEC2E:?8 ?6:893@FC=J 5FEJ H:E9:? 2 4@?E61E @7 4@?E6 > AE 2?5 4@?7=:4E, 42? 36 AC6D6?E65 :? DF49 2 H2J 2D E@ 7@DE6C 4@?E6 > AE 7@C @E96CD H9@ 42C6 23@FE 46CE2:? 7@C > D @7 C6=8:@FD @3D6CG2?46 5:776C6?E 7C@ > @FC @H?. #F49 H@C< 92D 366? 5@?6 @? 56 > @?DEC2E:?8 9@H @?6 > :89E C625 > 2?J @7 E96 A2C23=6D 2D E96 7:CDE (6H:D9) 962C6CD H@F=5 92G6 F?56CDE@65 E96 >, 2 = 9@F89 BF6DE:@?D C6 > 2:? 23@FE E96 C6=2E:@?D9:A 36EH66? DF49 F?56CDE2?5:?8 2?5 E96 :?E6CAC6E2E:@? @7 E96 EG2?86=DED E96 > D6=G6D.93 &C6249:?8, E6249:?8 2?5 D4C:AEFC6 DEF5J 2C6 ?@E ?6FEC2= 24E:G:E:6D 2?5 :E :D :?4F > 36?E FA@? E9@D6 D@ 6?82865 E@ 6?DFC6 E92E E96J 2C6 ?@E 92?5:?8 @? >:D=625:?8 DE6C6@EJA6D 7@F?5 :? > 2E6C:2= AC@5F465 3J @E96CD, :?4=F5:?8 > 2E6C:2= E92E 92D > F49 @7 4@?E:?F:?8 G2=F6 :? @E96C C6DA64ED.

*96 AC6D6?E2E:@? @7 \$E96 6HDI 2E 46CE2:? A@:?ED :? @9?ID G@DA6= 2D @AA@D65 E@ 6DFD 92D 2=D@ 366? FD65 E@ :> AFE6 2 4@=64E:G6 :?G@=G6>6?E 7@C E96 6H:D9 A6@A=6 :? 4@?7@F?5:?8 E96 AFCA@D6D @7 G@5. IE 92D 366? DF886DE65 E92E E96 EC2?D=2E:@? @7 \$+\|+1 a\|+\|:? E9:D 4@?E61E 2D \$E96 6HDI C2E96C E92? \$E96 F5262?DI, 7@C 612>A=6, H96? :E 4@F=5 4@?46:G23=J>62? 6:E96C, :8?@C6D E96 4@?E6>A@C2CJ E6?D:@?D 36EH66? G2==62?D 2?5 F5262?D 2?5 CF?D 4@F?E6C E@ E96 6G:56?E 2446AE2?46 3J E96 G@DA6= HC:E6C E92E 6DFD 2?5 9:D 7@=@H6CD H6C6 2=D@ \$ 6HDI.94 \$@E 2= 92G6 366? 4@?G:?465 3J E9:D 2C8F>6?E, 2?5 @E96C D49@=2CD 92G6 5632E65 H96E96C :E :D E96 \$C6=8:@FDI @C E96 \$GE9?:4I 2DA64E @7 E96 E6C> E92E D9@F=5 36 DEC6DD65 :? E9:D 4@?E61E; =<6 \$E96 6HDI :? E?8=D9, \$+\|+1 a\|+\|:? GC66<6?4@>A2DD6D 3@E9, =625:?8 @E96CD E@ 2C8F6 E92E 3@E9 2DA64ED 2C6 C6=6G2?E :? E96 F@FCE9 G@DA6=.95

) F49 4@?46C?D 364@>6 6DA64:2=J 24FE6 :? E96 42D6 @7 2 A2DD286 DF49 2D @9? 8, H96C6 6DFD 492=6?86D 9:D 962C6CDI C676C6?46D E@ A3C292>,

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D2J:?8: $. @F 2C6 7C@ > J@FC 72E96C E96 56G:=I ( @9? 8.44). ) 49@=2CD 92G6
HC:EE6? 61E6?D:G6=J @? 3@E9 E96 =:E6C2CJ 4@?DECF4E:@? @7 E96 A2DD286 E@
;F1E2A@D6 2 E96 > 6 @7 =:89E 2?5 52C<?6DD, 2?5 @? 9@H :E > 2J C67=64E
4@?7=:4ED 36EH66? E96 @92??:?6 4@ > > F?:EJ, E96 H:56C C9FC49 2?5
6H:D9 =6256CD.96 * 96 92CD9?6DD @7 E96 =2?8F286 > FDE 2=D@ 36 D66? :?
E96 4@?E61E @7 E96 C96E@C:4 @7 E96 52J 2?5, 2=36:E :? 2 5:776C6?E 4@?E61E,
:? E96 EC25:E:@? @7 AC@A96E:4 H2C?:?8D. $@?6E96=6DD, G2CJ:?8 E96@=@8:42=
```

6 > A92D6D H:E9:? E96 C9F(49 @7 E?8=2?5 (682(5:?8 E96 5@4E(:?6 @7 D4C:AEF(2=:?DA:C2E:@? 2?5 2FE9@C:EJ > 2J 92G6 2 362C:?8 @? 9@H DF49 4@?46C?D 2C6 255C6DD65: > FDE 2 H2J @7 C625:?8 DF49 \\$5:77:4F= E61EDT

36 7@F?5 E92E 6?23=6D E96 > E@ 36 F?56CDE@@5 2D C67=64E:?8 5:G:?6=J C6G62=65 ECFE9 23@FE E96 6H:D9 A6@A=6, @C 42? :E 36 2446AE65 E92E H@C5D 2EEC:3FE65 E@ C9C:DE 3J E96 G@DA6= HC:E6CD > 2J C6 > 2:? > 2C<65 3J 9F > 2? 4@?7=:4ED 2?5 =: > :E2E:@?D?

*96 4@?56>?2E:@? @7 6HD E9C@F89@FE E96 46?EFC:6D 2D \$C9C:DE <:=6CDT,

:?E68C2=E@ E96 \$E6249:?8 @7 4@?E6>AET :56?E:7:65 3J F=6D ID224, 4@F=5 ECJ E@ 2AA62=7@C ;FDE:7:42E:@? E@ #2EE96H 27.25: \$*96? E96 A6@A=6 2D 2 H9@=6 2?DH6C65, QH:D 3=@@5 36 FA@? FD 2?5 @? @FC 49:=5C6?!RT *9:D 2?5 @E96C

E61ED 7(@ > E96 &2DD:@? @7 C9C:DE:? E96 G@DA6=D E96C67@C6 ?665 E@ 36 8:G6? A2CE:4F=2C 42C6:? C9C:DE:2? E6249:?8 2?5 H@CD9:A E@52J.⁹⁷ C9C:DE:2? E96@=@8:42=7@4FD:D @? E96 H:=:?8 D24C:7:46 @7 6DFD::E:D E96 3=@6 @7 6DFD E92E 56=:G6CD 7(@ > D:? 2?5 7(@ > 5:G:?6;F586 >6?E, 4@G6C:?8 2=

EC2?D8C6DD:@?D. #@C6@G6C, E@ C646:G6 E96 36?67:ED @7:5.5 (@)06 (0A9000;F)0.5 (5865 (

*9@D6 H9@ 4CF4:7:65 C9C:DE 2C6 :? E96 ECF6 >:?5 @7 E96 C9C:DE:2? C9FC49 C6AC6D6?E2E:G6D @7 E96 H9@=6 9F > 2? C246, 2?5 :E :D 7@C ?@ @?6 E@ A@:?E 2 7:?86C @7 C6D6?E > 6?E 2E E9@D6 H9@ 3C@F89E 6DFD E@ 9:D 562E9, 3FE C2E96C E@ D66 E96 4CF4:7:I:@? 2D E96 5:G:?6 ;F586 > 6?E FA@? 2= 9F > 2?:EJ 7@C 49@@D:?8 E96 H2J @7 D:? C2E96C E92? E96 "@G6 C625:?8 7C@ > 2?5 AC6249:?8 @? %=5 *6DE2 > 6?E E6IED H66< 3J H66< :?
) F?52J D6CG:46D. AE E96 D2 > 6 E: > 6, E96 61A64E2E:@?D D6E 5@H? :? E96
B@@< @7 C@ > >@? &C2J6C @7 52:=J D92C:?8 3J E96 C9C:DE:2? 4@ > >F?:EJ
:? AC2J:?8 2?5 AC2:D:?8 H:E9 E96 AD2=>D, :?4=F5:?8 @?) F?52JD, 7:?5
@?=J 2 H62< C6DA@?D6 :? >F49 4@?E6 > A@C2CJ 49FC49 AC24E:46. AD H2D
6 > A92D:K65 :? C92AE6C 2, @?6 @7 E96 7@F?52E:@?D 7@C C9C:DE:2?P 6H:D9
C6=2E:@?D :D E96 @G6C=2AA:?8 @7 @FC D4C:AEFC2= 42?@?D, F?56C=?65, 7@C
C9C:DE:2?D, 3J E96 724E E92E *2?2<9 2D :E 61:DE65 :? 7:CDE-46?EFCJ &2=6DE:?6
H2D E96 @?=J B:3=6 E92E @FC "@C5 6DFD C9C:DE <?6H, E96) 4C:AEFC6 7C@ >
H9:49 96 E2F89E 2?5 AC624965. IE :D E96C67@C6 G:E2=7@C C9C:DE:2?P 6H:D9
C6=2E:@?D E@52J E92E E96 %=5 *6DE2 > 6?E :? 2=:ED H@?56C7F= 3C625E9 2?5
C:49 5:G6CD:EJ :D <?@H? 2?5 EC62DFC65 3J E96 C9FC49, ?@E =62DE :? :ED
AF3=4 H@CD9:A 2?5 :? :ED AC@8C2 > > 6D @7 AC6249:?8 2?5 E6249:?8.

*96:>A@CE2?46 @7 5:2=@8F6 H:E9 F52:D> 92D 366? DEC6DD65 C6A62E65=J:? E9:D 5@4F>6?E. C9C:DE:2?D D9@F=5 36 2H2C6 E92E %=5 *6DE2>6?E E61ED 2C6 2=D@ 36:?8 C625 2?5 DEF5:65 3J 6H:D9 A6@A=6 H9@ H:=:? D@>6 42D6D :?E6CAC6E E96> 5:776C6?E=J 7C@> :?96C:E65 EC25:E:@?D @7 C9C:DE:2? F?56CDE2?5:?8. C9C:DE:2?D 42? =62C? >F49 7C@> 6H:D9 EC25:E:@?, 2D E96J 42? 7C@> 4@?E6>A@C2CJ 6H:D9 D49@=2CD9:A,99 2H2C6 E92E :? D@>6 :?DE2?46D 5:G6C86?46 2C:D6D 7C@> 7F?52>6?E2=A@:?ED @7 5:D28C66>6?E 36EH66? C9C:DE:2?:EJ 2?5 F52:D>. \$@?6E96=6DD, @? DA64:7:4 A@:?ED @7 61686D:D, D@>6 C9C:DE:2?D H:= 28C66 H:E9 D@>6 6HD 2?5 5:D28C66 H:E9 D@>6 @E96C C9C:DE:2?D.

*9@D6 H9@ E6249 2?5 AC6249 :? E96 C9FC49 @7 E?8=2?5 D9@F=5 2G@:5 :> A=J:?8 E92E E96 > 62?:?8 @7 %=5 *6DE2 > 6?E AC@A964J A@:?ED E@ C9C:DE :? DF49 2 5:C64E 2?5 @3G:@FD H2J E92E 2?J@?6 H9@ 56?:6D :E > FDE 36 C67FD:?8 E@ A2J 2FE6?E:@? E@ E96 E61E @C 36 D@ > 69@H 56764E:G6 :? E96:C

Critical Issues

F?56CDE2?5:?8.) F49 :>A=:42E:@?D 7665 5:C64E=J :?E@ E96 ?682E:G6 DE6C6@EJA:?8 @7 6H:D9 A6@A=6 E92E 7@C>D E96 7F?52>6?E2=DECF4EFC6 @7 2?E:D6>:E:D> (D66 A286 11 23@G6).

AE E96 D2>6 E:>6, 42C6 ?665D E@ 36 E2<6? E@ 2G@:5 E96 @AA@D:E6 52?86C @7 5:DE2?4:?8 F96 C9FC49 7C@> IDC26= :? F96 %=5 *6DE2 > 6?E. 2D :7 F96J 925 ?@ 23:5:?8 C6=2E:@? E@ @?6 2?@E96C, G@5 :D ?2>65 :? E96 \$6H *6DE2>6?E 2=D@ 2D E96 G@5 @7 IDC26=. *96 C9FC49 :D E96 3@5J @7 C9C:DE. H9@ :D E96 2?@:?E65 @?6 @7 IDC26=. &6C92AD E96 62C=6DE DF > > 2CJ @7 E96 8@DA6= >6DD286 :? E96 \$6H *6DE2>6?E D2JD \$E92E C9C:DE 5:65 7@C @FC D:?D 244@C5:?8 E@ E96) 4C:AEFC6D.Œ92E 96 H2D 3FC:65. E92E 96 H2D C2:D65\@? E96 E9:C5 52J0244@C5:?8 E@ E96) 4C:AEFC6DT (1 C@C:?E9:2?D 15.33-4, \$1,): :7 E96 AC@>:D6D @7 G@5 :? IDC26=ID) 4C:AEFC6D 7:?5 E96:C \$J6DI :? C9C:DE (2 C@C:?E9:2?D 1.19-20), E96? :E :D 2=D@ ECF6 E92E E96 H@C< @7 G@5 :? C9C:DE 42? @?=J 36 F?56CDE@@5 :? E96 =:89E @7 E9@D6) 4C:AEFC6D. AD H2D DEC6DD65 :? C92AE6C 2, C9C:DE:2? 5@4EC:?6 E62496D E96 F?:EJ @7 G@5TD C6G6=2E:@?, D@ E92E 2D 962C6CD @7 G@5TD H@C5 H6 DE2?5 :? 2 C6=2E:@?D9:A @7 76=@HD9:A 2?5 D@=:52C:EJ H:E9 E9@D6 H9@ C646:G6 E92E H@C5 :? 6G6CJ 286, E6DE:7J:?8 H:E9 E96 > E92E E96 DE62572DE =@G6 @7 E96 @?6 "@C5 ?6G6C 462D6D 3FE 6?5FC6D 7@C 6G6C

*9@D6 H9@ AC6249 2?5 E6249 2?5 H9@ @77:4:2E6 :? AF3=:4 H@CD9:A
E96C67@C6 ?665 E@ 36 2EE6?E:G6 E@ 9@H E96 C6=2E:@?D9:A 36EH66? %=5 2?5
\$6H *6DE2 > 6?ED 2?5 36EH66? IDC26= 2?5 E96 C9FC49 :D 36:?8 AC6D6?E65.
*9:D >:89E :?4=F56 C67=64E:@? @? 9@H 5:776C6?E EF492C:DE:4 &C2J6CD ?2CC2E6
E96 DE@CJ @7 G@5ID D2G:?8 H@C<. *96 49@:46 @7 \$C6=2E65I @C \$4@?E:?F@FDI
%=5 *6DE2 > 6?E C625:?8D 7@C E96 &C:?4:A2=) 6CG:46 @?) F?52JD 5FC:?8
D@ > 6 A6C:@5D @7 @C5:?2CJ E: > 6 :? E96 C9FC49 @7 E?8=2?5ID =64E:@?2CJ
AC@C:56D 2 5:776C6?E 6 > A92D:D :? @AA@CEF?:E:6D 7@C E6249:?8 :? E9:D 2C62.
C@?D:56C2E:@? D9@F=5 36 8:G6? E@ E96 FD6 @7 E96 \$4@?E:?F@FDI =64E:@?2CJ

DEC2?5:? D@>6 J62CD 2E =62DE, 2D 2? @AA@CEF?:EJ E@ 7@4FD @? E96 C:496D @7 E96 %=5 *6DE2>6?E 2?5 E@ 6?4@FC286 E96 4@?8C682E:@? E@ C646:G6 G@5TD H@C5:? E96:C C625:?8 2?5 962C:?8 @7 :E.

*@86E96C H:E9 244FC2E6 2?5 ECFE97F= 92?5=:?8 @7) 4C:AEFC6, E96C6 ?665D E@ 36 D6?D:E:G6 2EE6?E:@? E@ =:EFC8:42= AC2J6CD 2?5 9J>?D :? C9C:DE:2? H@CD9:A 2?5 E6249:?8. A? 612>A=6 H@F=5 36 @?6 @7 E96 G6CD6D @7 C92C=6D - 6D=6JID H6=><?@H? 9J>?, \$"@, H6 C@>6D H:E9 C=@F5D D6D46?5:?8I:

EG6CJ 6J6 D92=?@H 369@=5 9:>
(@365 :? 5C6257F= >2;6DEJ;
*9@D6 H9@ D6E 2E ?@F89E 2?5 D@=5 9:>,
&:6C465 2?5 ?2:=65 9:> E@ E96 EC66,
D66A=J H2:=?8, 566A=J H2:=?8, 566A=J H2:=?8,
) 92=E96 ECF6 #6DD:29 D66.

IE :D A@DD:3-6 F@ C625 =?6D 3P6 2?5 :> 28:?6 E96J 2C6 23@FE E96 6H:D9

A6@A-6 2D 4@=64E:G6=J 8F:-EJ @7 4CF4:7J:?8 E96 #6DD:29, H9@ H96? 96 4@>6D

282:? :? A@H6C 2?5 8-@CJ C64@8?:K6 P E@@ =2E6? P E96 E6CC:3-6 4C:>6 E96J

92G6 4@>>:EE65. +?56CDE@@5 :? E92E H2J, E96J 4@?G6J E96 \$£6249:?8 @7

4@?E6>AET H9:49 E96 C9FC49 @7 E?8=2?5 ?@H C6;64ED. I7 E92E H6C6 E96 @?=J

H2J E@ C625 E96>, E96J D9@F-5 ?@ -@?86C 36 DF?8 :? AF3=4 H@CD9:A. . 6E :E :D

2-D@ A@DD:3-6 E@ C625 =?6D 3P6 2D 2? 2>A=7:42E:@? @7 =:?6D 1P2: E96 \$6J6T

@7 6G6CJ 9F>2? 36:?8 :D E96 6J6 @7 \$£9@D6 H9@ D6E 2E ?@F89E 2?5 D@-5 9:>I,
3642FD6 2=D92C6 :? E96 C6DA@?D:3:=EJ 7@C C9C:DETD DF776C:?8 2?5 562E9, 7@C

2=92G6 D:??65, 2?5 :E :D E96 C62=K2E:@? @7 E92E C6DA@?D:3:=EJ E92E -625D E@

4@?EC:E:@? 2?5 C64@8?:E:@? @7 9:> 2D \$E96 ECF6 #6DD:29T :? 9:D DF776C:?8 2?5

562E9 7@C FD H9@ 42FD65 9:D A2:?. I?5665, E96 H9@-6 G6CD6 :D 4-62C=J 32D65

@? (6G6-2E:@? 1.7, H9:49 DE2E6D E92E \$@? 9:D 244@F?E 2=E96 EC:36D @7 E96

62CE9 H:= H2:-T. AD H2D DEC6DD65 23@G6 @? A286D 65P6 23@G6, :7 H6 72:=E@

=@42E6 @FCD6=G6D 2D \$*9@D6 H9@ D6E 2E ?@F89E 2?5 D@=5 9:>I 2?5 :?DE625 =@< 2D<2?46 2E E96 72:=?8D @7 @E96CD H9:=6 7:?5:?8 @FCD6=G6D ;FDE:7:65, H6 92G6 ?@ D92C6 :? E96 36?67:ED @7 9:D &2DD:@?.)@>6 H:= ?@?6E96=6DD 4@?D:56C :E 25G:D23=6 E@ C6A=246 \$*9@D6I 2E E96 368:??:?8 @7 =:?6 3 H:E9 \$- 6I, E@ >2<6 DFC6 E96 4@?8C682E:@? F?56CDE2?5 E96 G6CD6 :? E9:D D64@?5 H2J, 2?5 ?@E E96 7:CDE. %E96CD >:89E 2C8F6 E92E E96 D64@?5 H2J :D 6G:56?E=J E96 C:89E @?6, 2?5 :E 5@6D ?@E ?665 E@ 36 F?56C=?65 3J 2>6?5>6?E E@ E96 E61E, E9@F89 2 3C:67 4@>>6?E 7C@> E96 @77:4:2?E >:89E 96=A E@ C6>@G6 2?J 5@F3E.100

*9@D6 @77:4:2E:?8 2E 2?J 24E @7 AF3=4 H@CD9:A :? E96 C9FC49 @7 E?8=2?5 42CCJ 2 C6DA@?D:3:=EJ E@ 6?DFC6 E92E D6CG:46D \$D9@F=5 36 C6G6C6?E 2?5 D66>=J 2?5 D92= 36 ?6:E96C 4@?EC2CJ E@, ?@C :?5:42E:G6 @7 2?J 56A2CEFC6 7C@>, E96 5@4EC:?6 @7 E96 C9FC49 @7 E?8=2?5T (C2?@? B 5.3). &C2J6CD, 9J>?D @C ;FIE2A@D:E:@?D @7 =64E:@?2CJ E6IED E92E 4@F=5 6?4@FC286 E96 :562 E92E E96C6 :D D@>6E9:?8 :?96C6?E=J HC@?8 H:E9 E96 6H:D9 A6@A=6 P DF886DE65 2E A286 11 23@G6 2D E96 32D:4 AC6>:D6 @7 >F49 9:DE@C:4 2?E:D6>:E:D> P ?665 E@ 36 6:E96C D6E 2D:56 @C 244@>A2?:65 3J 42C67F= E6249:?8 2?5 4@>>6?E2CJ E92E 24<?@H=6586D E96D6 52?86CD 2?5 A@:?ED :? 2 5:776C6?E 5:C64E:@?.¹⁰¹

I4@?@8C2A9J:D 2=D@ D:8?:7:42?E 96C6., 6DE:86D @7 E96 <:?5 @7 E6249:?8
23@FE F52:D> ?@ =@?86C 4@?D:56C65 2446AE23=6 E@52J 2C6 6G:56?E, 7@C
:?DE2?46, :? E96 7:8FC6D @7 EC:F > A92?E E44=6D:2 2?5 5@H?42DE) J?28@82
@? E96 H6DE 7C@?E @7 (@496DE6C C2E965C2= AC6D6?E65 :? E96 5:D4FDD:@?
A2?6= 2E E96 6?5 @7 C92AE6C 2, H9:=6 E96 D9C:?6D @7 - :=:2 > @7 \$@CH:49
2?5 ":EE=6 HF89 @7 ":?4@=?, AC6D6?E65 :? E96 5:D4FDD:@? A2?6= 2E E96 6?5
@7 C92AE6C 1, AC@C:56 G:D:3=6 6G:56?46 @7 E96 @C:8:?D @7 E96 \$3=@65 =:36=]
E92E D6CG65 2D 2 42E2=JDE 7@C E96 > 2DD > FC56C 2?5 61AF=D:@? @7 6H:D9

4@>>F?:E:6D:?>65:6G2=E?8=2?5. I? 3@E9 E96D6 42D6D, 42C67F=E9@F89E 92D 366? 8:G6? 3J E96 42E965C2=2FE9@C:E:6D 2D E@ 9@H E96D6 762EFC6D @7 E96:C 3F:=5:?8D D9@F=5 36 61A=2:?65 E@ A:=8C:>D 2?5 G:D:E@CD. *96 7@C>6C D9C:?6 @7 - :=:2> @7 \$@CH:49 92D 364@>6 2 A=246 H96C6 AC2J6CD @7 C6A6?E2?46 2C6 D2:5 7@C 2=E92E :? @FC H@C=5 =625D E@ 92EC65 2?5 G:@=6?46.

A D@FC46 @7 E6?D:@? 36EH66? D@>6 6HD 2?5 C9C:DE:2?D :D E96 ?@E F?4@>>@? AC24E:46 @7 9@=5:?8 2 C9C:DE:2? G6CD:@? @7 E96 &2DD@G6C) 656C >62=, FDF2=J 5FC:?8 H@=J - 66<.)@>6 6HD 2C6 F?56CDE2?523=J 4C:E:42= @7 E9:D. 2D :E 42? 36 G:6H65 2D 2? 2AAC@AC:2E:@? @7 6H:D9 =: EFC8J. > F49 2D C9C:DE:2?D >:89E, 7@C 612>A=6, 36 H2CJ @7 2 ?@?-C9C:DE:2? @C82?:K2E:@? 252AE:?8 H@=J C@>>F?:@? =: EF(8J E@ A(@>@E6 2? 2=6(?2E:G6 9:DE@(J @7 6DFDT =2DE 52JD. #@C6@G6C. E96C6 :D 2 9:DE@C:42= :?4@?8CF:EJ :? C9C:DE:2?D D66<:78 F@ 4@??64F F96 > D6=G6D H:F9 6G6?FD F92F F@@< A=246 D6G6C2= 564256D 367@C6 E96 56DECF4E:@? @7 E96 *6>A=6 3J FD:?8 2 C:E6 E92E C67=64ED E96 6H:D9 4@>>F?:EJTD DECF88=6 E@ 4@>6 E@ E6C>D H:E9 E96 *6>A=6TD =@DD.102 *9:D > 2J :? EFC? C6:?7@C46 F?96=A7F=?@E:@?D @7 F52:D > E@52J 2D D:>A=J E96 C6=8:@? @7 6DFDT 4@?E6>A@C2C:6D, 7C@K6? :? E:>6 6G6C D:?46. - 96C6 2 C9C:DE:2? G6CD:@? @7 E96 S"2DE) FAA6CT :D D6?D:E:G6=J 5@?6, 9@H6G6C, E9@D6 2EE6?5:?8 C6A@CE 2 8C62E6C F?56CDE2?5:?8 @7 E96 &2DD@G6C 275 9@H 6DFD 275 F96 5:D4:A=6D H@F=5 92G6 4@>6 F@ G:6H DF3D6BF6?E 6G6?ED, 2 ± 9 @F89 H96C6 2) 656C > 62 = 625D :?E@ 2 6F492C:DE:4 D6CG:46, E96 4=2D96D @7 2AAC@249 364@>6 2AA2C6?E.)@>6E:>6D 4@?8C682E:@?D \$252AET E96 H@C5:?8 @7 E96) 656C E@ C67=64E C9C:DE:2? E96@=@8J, 3FE E96 >6C8:?8 @7 =: EFC8J 7C@> C9C:DE:2? 2?5 ?@?-C9C:DE:2? D@FC46D C2:D6D BF6DE:@?D E92E ?665 G6CJ 42C67F=4@?D:56C2E:@?. A =6DD 4@?EC@G6CD:2= AC24E:46 :D E96 :?G:E2E:@? F@ 2 C233: @C 6H:D9 F62496C F@ F2<6 2 \$56>@?DEC2E:@?T)656C>62=,:?H9:49E9@D62EE6?5:?842? A2CF:4:A2F6.7F=J

T olog and ra i o s o ld ra for / is o l on Good rida

FC@ > 2? 62C=J A6C:@5, C9C:DE:2?D 92G6 AC2J65 DA64:7:42=J 7@C E96 6H:D9 A6@A=6 @? G@@5 FC:52J. AD E96 C9FC49 82G6 E92?<D 7@C E96 D2=G2E:@? @7 E96 H9@=6 H@C=5 E9C@F89 E96 4C@DD @7 C9C:DE, :E H2D A6C92AD 6DA64:2=J 4@?D4:@FD @7 E9@D6 H9@ 4@F=5 ?@E ;@:? :E. *9FD AC2J6CD 7@C E96 6H:D9 A6@A=6 H6C6 =:?<65 H:E9 AC2J6CD 7@C @E96CD @FED:56 E96 C9C:DE:2? C9FC49.

*96 *9:C5 Ce=64E 7eC Gee5 FC:52J :? E96 C9FC49 e7 E?8=2?5TD Bee<
e7 Ce>>e? &C2J6C C67=64ED E92E =e?8-DE2?5:?8 EC25:E:e?, 2?5
:?5665 :D 32D65 e? >F49 62C=6C =EFC8:42=E61ED:

% #6C4:7F=G@5, H9@ 92DE >256 2= >6?, 2?5 92E6DE ?@E9:?8
E92E E9@F 92DE >256, ?@C H@F=56DE E96 562E9 @7 2 D:??6C, 3FE
C2E96C E92E 96 D9@F=5 36 4@?G6CE65 2?5 =G6: H2G6 >6C4J FA@?
2= 6HD, *FC<D, I?7:56=D 2?5 H6C6E:4<D, 2?5 E2<6 7C@> E96> 2=
:8?@C2?46, 92C5?6DD @7 962CE, 2?5 4@?E6>AE @7 E9J H@C5: 2?5
D@ 76E49 E96> 9@>6, 3=6DD65 "@C5, E@ E9J 7=@4<, E92E E96J >2J
36 D2G65 2>@?8 E96 C6>?2?E @7 E96 ECF6 IDC26=E6D, 2?5 36
>256 @?6 7@=5 F?56C @?6 D96A96C5, 6DFD C9C:DE @FC "@C5,
H9@ =G6E9 2?5 C6:8?6E9 H:E9 E966 2?5 E96 H@=J) A:C:E, @?6 G@5,
H@C=5 H:E9@FE 6?5. A>6?.

C@>A2C6 E9:D H:E9 E96 A2C2=6= D64E:@? 7C@> E96 \$&C2J6CD @7 I?E6C46DD:@?I :? E96 D6CG:46 7@C G@@5 FC:52J 7C@> C+)) +* W+./\$% : T%) !/a* S! a/+*/:

M\%\%0! . "6E FD AC2J 7@C G@5TD 2?4:6?E A6@A=6, E96 6HD, E96 7:CDE E@ 962C 9:D H@C5:

7@C 8C62E6C F?56CDE2?5:?8 36EH66? C9C:DE:2? 2?5 6H, 7@C E96 C6>@G2=@7 @FC 3=:?5?6DD 2?5 3:EE6C?6DD @7 962CE, E92E G@5 H:= 8C2?E FD 8C246 E@ 36 72:E97F=E@ 9:D 4@G6?2?E 2?5 E@ 8C@H :? E96 =@G6 @7 9:D ?2>6.

S%! *c! % '!, 0.

"@C5. 962C FD.

AII

n

All ord gra io sl ar s

President "@C5 G@5 @7 A3C292>,
3=6DD E96 49:=5C6? @7 J@FC 4@G6?2?E, 3@E9 6H 2?5 C9C:DE:2?;
E2<67C@> FD 2= 3=?5?6DD 2?5 3:EE6C?6DD @7 962CE,
2?5 92DE6? E96 4@>:?8 @7 J@FC <:?85@>,
H96? E96 G6?E:=6D D92= 36 82E96C65 :?,
2= IDC26=D92= 36 D2G65,
2?5 H6 D92= 5H6=E@86E96C :? >FEF2==@G6 2?5 A6246
F?56C E96 @?6 G@5 2?5 F2E96C @7 @FC "@C5 6DFD C9C:DE.

*96 #:?:DE6C E96? AC@4665D E@ AC2J :? 86?6C2=E6C>D 7@C \$E9@D6 H9@ 5@ ?@E 36=6G6 E96 8@DA6=@7 C9C:DET, H:E9@FE ?2>:?8 2?J DA64:7:4 8C@FAD.

 $I" 0\$! C\$1.c\$ + "E*\#(a* 9/,!./,!c0½! + *\$+3 0+,.a5"+.0\$! \\ J! 3\%\$,!+,(! \$a/c\$a*\#! , +!/\%) a00!.0\$a0 0\$! /\mathref{4}0!!*0\$-c!*01.5 C+((!c0.!) a\mathref{%}/,a.0 + \mathref{%}0/ a10\$+.\mathref{%}! 3+./\mathref{%}/?$

ffir a ions

*96 H@J "2?5, E96 =2?5 @7 G@5TD AC@ >:D6, 92D 2 D:8?:7:42?46 7@C 6HD 2?5 7@C C9C:DE:2?D 36J@?5 E96 D:8?:7:42?46 @7 2=@E96C =2?5D.

IE 92D 366? E96 D@FC46 @7 4@?E:?F:?8 9@A6 7@C 6H:D9 A6@A=6

E9C@F89 >:=6??:2 @7 61:=6 2?5 5:DA6CD:@?. #2?J C9C:DE:2?D 2=D@

EC62DFC6 :E 2D E96 A=246 H96C6 6DFD C9C:DE =G65, 5:65 2?5 H2D

C2:D65 7C@ > E96 5625, H96C6 E96 62C=6DE C9C:DE:2? 36=6G6CD

82E96C65 2D 9:D H:E?6DD6D 2?5 2 4@?E:?F@FD C9C:DE:2? AC6D6?46

92D 366? >2:?F2:?65 6G6C D:?46, 2?5 H96C6 E9C@F89 A:=8C:>286

C9C:DE:2?D 7C@ > 6G6CJ A=246 2?5 ?2E:@? >2J 7:?5 E96:C 72:E9

C6?6H65. - 9:=6 C9C:DE:2?D H:= E2<6 5:776C6?E 2AAC@2496D E@ 2

?F > 36C @7 4@?E6 > A@C2CJ BF6DE:@?D C682C5:?8 E96) E2E6 @7 IDC26=,

2=D9@F=5 2446AE E92E (2) >@DE 6HD 4@?D:56C /:@?:D > 2?

:>A@CE2?E 2?5 =68:E:> 2E6 2DA64E @7 (E96)ED9 A6@@FEJ > 3DE0005625 (6) 0. 5 (2DA

C@F?4:=@7 C9FC496D :? A>DE6C52>.) 6G6?EJ J62CD @?, E96 D:8?:7:42?46 @7 IDC26=DE:=D66>D E@ E@F49 DF49 2 ?6CG6 46?EC6. - 9J? IE :D 2 BF6DE:@? E92E C9C:DE:2?D 42??@E P 2?5 D9@F=5 ?@E P :8?@C6.

*96 4@?E6>A@C2CJ C6=2E:@?D9:A 36EH66? C9C:DE:2?D 2?5 6HD :D :?6G:E23=J :?7=F6?465 3J E96 C62=EJ 2?5 D:8?:7:42?46 @7 E96) E2E6 @7 IDC26=. I?5665, BF6DE:@?D 23@FE 9@H E@ C6DA@?5 E@ E92E C62=EJ 92G6 364@>6 :?4C62D:?8=J 4@?E6DE65 H:E9:? E96 C9C:DE:2? 49FC496D @G6C E96 A2DE D6G6?EJ J62CD, 2E E:>6D 86?6C2E:?8 D:8?:7:42?E E6?D:@?D :? C9C:DE:2?P 6H:D9 C6=2E:@?D. *9:D 492AE6C, 27E6C 3C:67=J C6G:6H:?8 E96 56G6=@A>6?E @7 E96) E2E6 @7 IDC26= 2?5 :ED D:8?:7:42?46 7@C 6H:D9 A6@A=6, @FE=?6D D@>6 @7 E96 >@C6 AC@>:?6?E C9C:DE:2? C6DA@?D6D 2?5 E96 E96@=@8J E92E F?56CA:?D E96>, 367@C6 AC@G:5:?8 2? 6G2=F2E:@? @7 E9@D6 C6DA@?D6D :? E96 =:89E @7 E96 E96@=@8:42=A6CDA64E:G6 56G6=@A65 :? &2CE I.

T a of sra I and / is o I

A±9@F89 :?E6C?2E:@?2=H:=:?8?6DD, 61AC6DD65 E9C@F89 E96 +?:E65 \$2E:@?D, E@ DFAA@CE E96 6DE23=D9 > 6?E @7 2 6H:D9 DE2E6 :? 1947 H2D F?5@F3E65=J A2CE=J 2 C6DA@?D6 E@ E96 C646?E F?AC64656?E65 9@CC@CD @7 E96 H@=@42FDE, >@DE 6HD D2H E9:D A@=E:42=56G6=@A > 6?E 2D E96 @?=J AC24E:42=D@=FE:@? E@ E96 A6C6??:2=6G:=@7 2?E:D6 >:E:D > 2?5 A6CD64FE:@?, H9:-6 > 2?J 2=D@ G:6H65 :E 2D E96 4F=>:?2E:@? @7 E96:C C6=8:@FD 9@A6D @G6C E96 AC6G:@FD 2000 J62CD.104

*96 =: EFC8J @7 &2DD@G6C, E96 6H:D9 4@>>6>@C2E:@? @7 E96 =: 36C2E:@? 7C@> E8JAE, 46=63C2E65 6249 J62C :? 6H:D9 9@>6D, :?4=F56D E96 AC2J6C E92E E96 A2CE:4:A2?ED H:= 36 23=6 E@ 62E E96 &2DD@G6C >62=\$?61E J62C :?
6CFD2=6>T, H9:=6 E96 A>:529, E96 46?EC2=AC2J6C @7 E96 6H:D9 =:EFC8J,
FD65 @? 2 52:=J 32D:D 3J C6=8:@FD 6HD, :?:ED EC25:E:@?2=7@C> 36D66496D
G@5 7@C C6EFC? E@ 6CFD2=6> 2?5 E@ /:@?. &2C2=6=A2DD286D >:89E 36
4:E65 7C@> E96 =:EFC8J 7@C E96 D2J @7 AE@?6>6?E 2?5 :?5665 7C@> E96
H@C5D 7@C 8C246 E@ 36 D2:5 27E6C >62=D.

*96C6 92D 4@?E:?F65 E@ 36 2 6H:D9 AC6D6?46 :? E96 =2?5 D:?46 3:3:42= E:>6D, 2?5 E96 A96?@>6?@? @? D@>6 C6EFC?:?8 E@ :E 7C@> E96 D:2DA@C2 7@C C6:8:@FD C62D@?D DEC6E496D 324< 24C@DD E96 46?EFC:6D. \$6G6CE96:6DD, :E H2D :? E96 D64@?5 92=7 @? E96 ?:?6E66?E9 46?EFCJ E92E >:8C2E:@? 3J 6HD E@ E96 E6CC:E@CJ E96? 42=65 &2=6DE:?6 3682? @? 2 D:8?:7:42?E D42=6, AC@>AE65 :? A2CE 3J G:@=6?E 2EE24<D @? 6H:D9 4@>>F?:E:6D, 6DA64:2=J :? E2DE6C? EFC@A6. - 92E 3642>6 <?@H? 2D /:@?:D>, 2? @C82?:K65 6H:D9 >@G6>6?E (H:D9)]. 3CE?

*96 He=e42FDE 2?5 E96 6>6C86?46 @7 E96) E2E6 @7 IDC26=92G6 3@E9 A=2J65 2 A2CE :? 6?4@FC28:?8 C6=8:@FD C67=64E:@? @? SIDC26=J 2D =2?5 2?5 ?2E:@?. \$@?6E96=6DD, :E D9@F=5 2=D@ 36 C6>6>36C65 E92E 3:3=:42=2?5 E96@=@8:42=4@?D:56C2E:@?D 5@ ?@E A=2J 2 =2C86 A2CE :? 9@H 2 DF3DE2?E:2=D64E:@? @7 6H:D9 IDC26=D E@52J G:6H E96:C 4@F?ECJ.

A£9@F89 ?@E 2= 6HD E@52J H@F=5 42=E96 > D6-G6D /:@?:DE, >@DE H@F=5, 46CE2:?=J :? E96 +?:E65 ! :?85@ > . &2CE @7 E96 4@?E6IE 96C6 :D E92E 6HD :? E96 +! E@52J 2C6, 7@C E96 >@DE A2CE, E:65 DA:C:EF2=J 2?5 6 >@E:@?2=J E@ E96 =2?5 @7 IDC26=. #2?J 92G6 72 >:=J =G:?8 E96C6 2?5 2 ?F > 36C 9@=5 ;@:?E IDC26=: 2?5 +! A2DDA@CED. C9:=5C6? 2E 6H:D9 D49@@=D 2?5 :? DJ?28@8F6 4=2DD6D :? E9:D 4@F?ECJ =62C? 23@FE IDC26=:? 2 A@D:E:G6 4@?E6IE 7C@ > 2? 62C=J 286. *96 G2DE >2;@C:EJ @7 6HD 7C@ > E96 +! H9@ G:D:E IDC26= D66 E96 G6CJ 36DE @7 E96 4@F?ECJ: 2 E649?@=@8:42=J 25G2?465 D@4:6EJ H:E9 2 >2;@C:EJ-6H:D9 :56?E:EJ, D49@@=D 2?5 :?DE:EFE:@?D. F6H G:D:E E96 &2=6DE:?:2? 4@ > >F?:E:6D :? E96 - 6DE B2?<; >2?J 2C6 G6CJ 762C7F=@7 5@:?8 D@, 2£9@F89 2 C2?86 @7 6H:D9 @C82?:K2E:@?D @776C @AA@CEF?:E:6D 7@C 6?4@F?E6C. \$@E @?=J :D IDC26=E96 @?6 4@F?ECJ :? E96 H@C=5 H9@D6 ?2E:@?2=9@=:52JD C67=64E E96 6H:D9 42=6?52C, H96C6 H63C6H :D DA@<6? 2?5 H96C6 <@D96C 7@@5 :D H:56=J 2G2:=23=6, 3FE :E :D 2=D@ G:6H65 2D E96 \$D276 92G6?I :? 2 H@C=5 E92E, 8:G6? A2DE 9:DE@CJ, 42??@E ECF=J 36 ECFDE65.107

IE :D :? E96 =:89E @7 E96 566A 2?5 72C-C6249:?8 C6=2E:@?D9:A 36EH66? 6H:D9 A6@A=6 2?5 3@E9 E96 =2?5 2?5 E96) E2E6 @7 IDC26=E92E E96 D:8?:7:42?46 ?665D E@ 36 F?56CDE@@5 @7 D@>6 @7 E96 612>A=6D @7 2?E:D6>:E:D> 8:G6? :? E96 IH (A 567:?:E:@? 4:E65 :? C92AE6C 1 (A286D 9P11). *96D6 :?4=F565:

• D6?J:?8 E96 6H:D9 A6@A=6 E96:C C:89E E@ D6=7-56E6C>:?2E:@?, 6.8., 3J 4=2:>:?8 E92E E96 6I:DE6?46 @7 2) E2E6 @7 IDC26=:D 2 C24:DE 6?562G@C.

• AAA=J:?8 5@F3=6 DE2?52C5D 3J C6BF:C:?8 @7 :E 2 3692G:@C ?@E 61A64E65 @C 56>2?565 @7 2?J @E96C 56>@4C2E:4 ?2E:@?.

C6EFC?, 2?5, A2CE:4F=2C=J :? E96 ?:?6E66?E9 46?EFCJ, :ED C6AC6D6?E2E:G6D =@33:65 E96 BC:E:D9 8@G6C?>6?E 92C5 E@ FD6 :ED 5:A=@>2E:4 2?5 >::E2CJ

\$5:DA6?D2E:@?2:D>I, 2 E96@CJ A@AF=2C:K65 :? E96 ?:?6E66?E9 46?EFCJ 3J . \$. D2C3J.¹¹²) F49 G:6HD 92G6 364@>6 :?4C62D:?8=J D:8?:7:42?E :? E96 =2DE 7:7EJ J62CD, 6DA64:2=J 2>@?8 EG2?86=:42= C9C:DE:2?D :? E96 +?:E65) E2E6D, H:E9 A@=:E:42=:>A=:42E:@?D :? IDC26= 2?5 E96 - 6DE6C? H@C=5.

IE:D:?244FC2F6 2?5 F?96=A7F=:7 C9C:DE:2? F96@=@8:42=DFAA@CE 7@C F96 4@?E:?F:?8 61:DE6?46 @7 E96) E2E6 @7 IDC26=, H96E96C @C ?@E :E H@F=5 56D4C:36 :ED6=7 2D C9C:DE:2? /:@?:D>, :D D:>A=J EC62E65 2D 2 7@C> @7 7F?52>6?E2:D>.113)@>6 C9C:DE:2? E96@=@8:2?D H9@ 92G6 2 G6CJ 5:776C6?E A6CDA64E:G6 7C@> 7F?52>6?E2=D> H@F=5 ?@?6E96=6DD H2?E E@ 61A=@C6 F96 C6D@FC46D 2G2:=23=6 H:F9:? F96 C9C:DF:2? FC25:F:@? 7@C A@D:F:G6 E96@=@8:42= C67=64E:@? @? E96 4@?E6 > A@C2CJ D:8?:7:42?46 @7 E96 =2?5 2?5) E2E6 @7 IDC26=, *96D6 :?4=F56, 7@C :?DE2?46, E96 C646?E 2EE6 > AED 3J E96 (@>2? C2E9@=:4 E96@=@8:2? G2G:? DTC@DE2 E@ @FE=?6 2 \$>:?:>2= C2E9@=:4 /:@?:D>I H:E9 G6CJ 42C67F=J 567:?65 =:>:ED. A D:8?:7:42?E E96@=@8:42=61A=@C2E:@? @7 IDC26= 2D =2?5 2?5 DE2E6 > 2J 36 7@F?5 :? E96 =64EFC6 AC6A2C65 7@C 2 2004 4@?76C6?46 :? 6CFD2=6 > 3J E96 E96? AC493:D9@A @7 C2?E6C3FCJ, DC (@H2? - :=:2>D.114 \$@E 6G6CJ@?6 H9@ >:89E 36 A=2465 @? E9:D DA64ECF > H@F=5 56D4C:36 E96:C A@D:E:@? 2D /:@?:DE.)@>6 H@F=5 5C2H 2 5:DE:?4E:@? 36EH66? DFAA@CE 7@C E96 C:89E @7 E96) E2E6 @7 IDC26= E@ 2 D64FC6 61:DE6?46, 7@C H9:49 E96J H@F=5 H2?E E@ >2<6 2 42D6 @? E96@=@8:42=8C@F?5D, 2?5 /:@?:D> 2D 24E:G6 6?8286>6?E:? 5676?5:?8 2?5 56G6=@A:?8 E96) E2E6 @7 IDC26=, 7@C H9:49 E96J H@F=5 ?@E.

I7 C9C:DE:2? E96@=@8J 92D D@>6E:>6D 366? :?G@<65 E@ 8:G6 DFAA@CE 7@C E96) E2E6 @7 IDC26=, :E 92D 2-D@ 366? 5C2H? @? 2D 2 D@FC46 7@C C6D:DE2?46 E@ :ED 24E:@?D.)@>6 C9C:DE:2?D D6E 282:?DE E96 4=2:>D @7 A@=:E:42= /:@?:D> E96 D92CA 492=6?86 @7 2 &2=6DE:?:2? ?2CC2E:G6 @7 5:DA@DD6DD:@?, @AAC6DD:@? 2?5 5:D4C:>:?2E:@?, 2?5 @? E92E 32D:D BF6DE:@? @? >@C2=8C@F?5D E96

=68:E:>24J @7 IDC26= 2D 2 6H:D9 DE2E6. A D:8?:7:42?E 56G6=@A>6?E @G6C E96 A2DE E9:CEJ J62CD 92D 366? E96 56G6=@A>6?E @7 H92E :D 42=65 &2=6DE:?:2? C9C:DE:2? =:36C2E:@? E96@=@8J, H9:49 92D 8C@H? @FE @7 E96 61A6C:6?46 @7 E96 &2=6DE:?:2? C9C:DE:2? 4@>>F?:EJ 2?5 :ED D92C65 4@?46C?D H:E9 @E96C &2=6DE:?:2?D 7@C FA9@=5:?8 9F>2? C:89ED.115 %?6 @7 E96 36DE-<?@H? 61AC6DD:@?D @7 DF49 E96@=@8J :D E96 Ka%+/ Pa(! /0**! 5@4F>6?E, 7@C H9:49 2? 64F>6?:42=8C@FA @7 &2=6DE:?:2? C9C:DE:2?D H6C6 C6DA@?D:3-6.116):?46 :ED AF3=:42E:@? :? 2009 E9:D 5@4F>6?E 92D 366? H:56=J 5:DD6>:?2E65 2>@?8 - 6DE6C? C9C:DE:2? 8C@FAD. IE DA62<D H:E9 A2DD:@? 2?5 6=@BF6?46 2 \$H@C5 @7 72:E9, 9@A6 2?5 =@G6T 23@FE E96 4FCC6?E C62=E:6D 61A6C:6?465 3J E96 &2=6DE:?:2? A6@A=6.

*96 6E9:42=EC25:E:@?D @7 3@E9 F52:D> 2?5 C9C:DE:2?:EJ 2C6 566A=J C@@E65 :? 2?5 5C2H 7C@> E96:C D92C65) 4C:AEFC6, 3@E9 E96 *@C29/&6?E2E6F49 2?5 E96 AC@A96E:4 42?@?, :? H9:49 E96 4@?46AED @7) \\$, a0 (;FDE:46) 2?5 U6! a-a\$ (C:89E6@FD?6DD) 92G6 2 A@H6C7F=G@:46. *96 :>A@CE2?46 @7 ;FDE:46 2?5 A6246->2<:?8 :? IDC26=2?5 &2=6DE:?6 :D E96C67@C6 2 G2=5 E@A:4 7@C C9C:DE:2?D E@ 5:D4FDD, 6DA64:2=J H:E9 6H:D9 5:2=@8F6 A2CE?6CD. *17 I?5665, E96 6H:D9 DE2E6>6?E Dab.1 E) !0, HC:EE6? 3J C6AC6D6?E2E:G6D @7 5:776C6?E DEC2?5D @7 F52:D>, DA64:7:42=J 277:C>D E92E \$ 6H:D9 EC25:E:@? >2?52E6D ;FDE:46 7@C 2=?@?-6HD H9@ C6D:56 :? 2 6H:D9 DE2E6. **Institute *Institute *Institute

C9C:DE:2?D 2C@F?5 E96 H@C=5 92G6 A2CE:4F=2C C62D@?D 7@C 36:?8 4@?46C?65 7@C E96 H6=36:?8 @7 E96:C 76=@H C9C:DE:2?D :? IDC26=2?5 &2=6DE:?6, 2D H6=2D E96 #:55=6 E2DE >@C6 H:56=J, 2?5 7@C 766=?8 2 DA64:2=5FEJ @7 42C6 7@C E96>. #2?J EC62DFC6 E96 H@=J "2?5 2D E96 A=246 H96C6 6DFD C9C:DE=:G65, 5:65 2?5 H2D C2:D65 7C@> E96 5625, H96C6 E96 62C=6DE C9C:DE:2? 36=6G6CD 82E96C65 2D 9:D H:E?6DD6D 2?5 2 4@?E:?F@FD C9C:DE:2?

AC6D6?46 92D 366? >2:?E2:?65 6G6C D:?46, 2?5 H96C6 E9C@F89
A:=8C:>286 C9C:DE:2?D 7C@> 6G6CJ A=246 2?5 ?2E:@? >2J 7:?5 E96:C
72:E9 C6?6H65. #2?J 2C6 2=D@ 2H2C6 E92E 7@C E96 &2=6DE:?:2? C9C:DE:2?
4@>>F?:E:6D H9@ DFDE2:? E92E AC6D6?46 E@52J, E96 4FCC6?E A@=E:42=
2?5 64@?@>:4 C62=E:6D 4@?E:?F6 E@ 4C62E6 DF3DE2?E:2=92C5D9:A 2?5
2C6 24E:?8 2D 2? :?46?E:G6 E@ 6>:8C2E6. #2?J &2=6DE:?:2?D, :?4=F5:?8
C9C:DE:2?D, 766=E92E E96:C 61A6C:6?46 @7 EC2865J 2?5 61:6 :? 1948, 7@C
H9:49 E96 E6C> \$2<32 (\$C2E2DEC@A96I) :D :?4C62D:?8=J FD65, :D @7E6?
@G6C=@<65 @C 56=36C2E6=J :8?@C65 3@E9 H:E9:? IDC26=2?5 3J E96
:?E6C?2E:@?2= 4@>>F?:EJ. AE 2 4@?76C6?46 96=5 2E "2>36E9 &2=246 :?
F=J 2011 :? DFAA@CE @7 C9C:DE:2?D :? IDC26=2?5 &2=6DE:?6, E96 E96?
AC493:D9@A @7 C2?E6C3FCJ, (@H2? - :=:2>D, C67=64E65 E92E \$IE :D 2 <:?5
@7 8?@DE:4:D> N 2 <:?5 @7 4FEE:?8 =@@D6 7C@> 9:DE@CJ :7 H6 D2J E92E E96
AC6D6?46 @7 @FC 3C@E96CD 2?5 D:DE6CD :? E96 =2?5 @7 %FC "@C5 5@6D ?@E
>2FE6C F@ FD.119

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*96 E96@=@8:42= 2AAC@249 E@ C9C:DE:2?P 6H:D9 C6=2E:@?D 25G@42E65 :? E9:D 5@4F > 6?E 42? 6?4@ > A2DD C9C:DE:2? /:@?:D > 2?5 &2=6DE:?:2? =:36C2E:@? E96@=@8J 2?5 :?5665 E96 5:2=@8F6 36EH66? E96 > P 3FE @?=J H:E9:? 46CE2:? =: >:ED. *96 AC@ >:D6D @7 G@5 E@ IDC26=, 7@C :?DE2?46, 42??@E 36 D6A2C2E65 7C@ > H92E G@5 92D 5@?6 :? C9C:DE, 2?5 E96 7F=7:=>6?E @7 E9@D6 AC@ >:D6D > FDE 4@CC6DA@?5 H:E9 H9@ G@5 92D D9@H? 9: > D6=7 E@ 36 :? 6DFD C9C:DE, 2D 3@E9 D6CG2?E 2?5 "@C5 @7 2=.

) @ 72C 2D 7@C > D @7 C9C:DE:2? /:@?:D > 2C6 4@?46C?65 E92E 2C6 3@F?5 FA H:E9 2A@42=JAE:4 DA64F=2E:@?, E96 C9FC49 > FDE 36 4=62C E92E E96C6 42?

36 ?@;FDE:7:42E:@? :? C9C:DE:2? 5@4EC:?6 7@C D6EE:?8 2D:56 E96 @C5:?2CJ

@FE=?65 :? C92AE6C 2, E96 SF?BF2=7:65 56?:2=@7 E96 4=2:> @7 6H:D9 A6@A=6 D:?46 E96 E:>6 @7 C9C:DE E@ 36 A2CE @7 G@5TD 49@D6? A6@A=6T. IE :D A@DD:3=6 E@ >2<6 2 4@??64E:@? 96C6 H:E9 E96 H2J E92E :E D66>D E@ 42= :?E@ BF6DE:@? E96 =68:E:>24J @7 IDC26= 2D :? 2?J D6?D6 2 6H:D9 DE2E6.122 I?5665, G:6HD =<6 E9:D 92G6 D@>6 4FCC6?4J H:E9:? E96 &2=6DE:?:2? 4@>>F?:EJ, 2?5 2>@?8 DFAA@CE6CD @7 &2=6DE:?:2? C:89ED. *96D6 762EFC6D @7 E96 5@4F>6?E 2=D@ 4C62E6 D:8?:7:42?E 5:77:4F=E:6D 7@C C9C:DE:2?D H9@ >:89E H:D9 E@ FD6 :E 2D 2 E@@=7@C 6?23=?8 2 5:D4FDD:@? @? E96 4FCC6?E A@=E:42=D:EF2E:@? H:E9 6H:D9 4@F?E6CA2CED.

(6=2E65 AC@3=6>D @44FC:? 4@?D:56C:?8 D@>6 @7 E96 E96@-@8:42= H@C< @? E9:D DF3;64E AC@5F465:? - 6DE6C? 4@?E61ED, DF49 2D E96 C6;64E:@? @7 2?J 61AC6DD:@? @7 /:@?:D> 2D S6146AE:@?2=D>I.123

E96 A286D @7 E96 %=5 *6DE2 > 6?E 2 D4C:AE 7@C E96 F?7@=5:?8 2A@42=JAE:4
7FEFC6 2?5 E96 A=246 @7 E96) E2E6 @7 IDC26= H:E9:? E92E. . 6E ?6:E96C 42?
E96J D: > A=J 5:D > :DD H92E :D D2:5 23@FE A6@A=6 2?5 =2?5 :? E96 %=5
*6DE2 > 6?E 2D ?@H :CC6=6G2?E. I? C92AE6C 2, :E H2D 2C8F65 E92E 7@C &2F=
2?5 7@C FD, :E > 2EE6CD :? E96 AFCA@D6D @7 G@5 E92E E96 6H:D9 A6@A=6
C6 > 2:? 2D IDC26=, 2=@?8D:56 E96 C9FC49. *96 42D6 E92E E9:D C6BF:C6D
D@ > 6 4@?E:?F:?8 C6=2E:@? @7 E96 6H:D9 A6@A=6 E@ E96 =2?5 @7 IDC26=
42? 36 > 256 @? E96@=@8:42= 8C@F?5D 2D H6= 2D AC28 > 2E:4 @?6D,
H:E9@FE AC656E6C > :?:?8 E96 2?DH6C E@ E96 BF6DE:@? @7 H92E A@=E:42=
2CC2?86 > 6?ED > 2J 36DE D64FC6 2?5 61 AC6DD E92E C6=2E:@?.

F:?2=J, C9C:DE:2?D ?665 E@ 36 DFC6 E92E E96@=@8:42= 4@?D:56C2E:@? @7 E9:D DF3;64E:D ?@E:?7=F6?465 3J E96 EC@A6 @7 E96 \$H2?56C:?8 6HI, H9:49 92D A=2J65 2 4@?D:56C23=6 C@=6:? C9C:DE:2? 9:DE@CJ. F@C 612 > A=6, 2 - @C=5 C@F?4:=@7 C9FC496D H@C<:?8 8C@FA > 66E:?8:? 1956, HC6DE=?8 H:E9 E96 BF6DE:@? @7 E96 E96? C646?E 6DE23=D9 > 6?E @7 IDC26=, 6?565:ED C67=64E:@?D 3J DE2E:?8, \$#@C6@G6C H9:=6 H6 F?56CDE2?5 E96 56D:C6 @7 > 2?J 6HD E@ 92G6 2 4@F?ECJ @7 E96:C @H?, H6 36=6G6:E:D E96:C 42=:?8 E@ =G6 2D E96 A6@A=6 @7 G@5, 2?5 ?@E E@ 364@>6 > 6C6=J 2 ?2E:@? =<6 @E96CD.I¹25 A=9@F89:E > 2J 2AA62C:? 2 7@C > E92E D66 > D C6=2E:G6=J 36?:8?, E96 :562 E92E E96 6H:D9 A6@A=6 2C6 3@F?5 E@ A6CA6EF2= >@G6 > 6?E H:E9 ?@ A6C> 2?6?E C@@ED:? 2 A2CE:4F=2C A=246 (F?=6DD E96J H:D9 E@ 7@C76:E E96:C 42=:?8 \$E@ =G6 2D E96 A6@A=6 @7 G@5I 2?5 \$364@>6 > 6C6=J 2 ?2E:@? =<6 @E96CDI) F=E: > 2E6=J DE6 > D 7C@ > E96 \$E6249:?8 @7 4@?E6 > AEI 56D4C:365:? E96 7:CDE 492AE6C, H9:49 E96 C9FC49 @7 E?8=2?5 P 2=@?8 H:E9 @E96CD P ?@H C6AF5:2E6D.

T olog and ra i a igos

F52:D>, C9C:DE:27:EJ 2?5 ID=2> 2=C6DA64E:G6=J 4@?D:56C A3C292> E@ 36 2? 2?46DE@C:? 72:E9. I?5665:? 6249 @7 E96D6 C6=8:@FD EC25:E:@?D E96 DEC:<:?8 56D4C:AE:@? @7 A3C292> 2D E96 \$7C:6?5T @7 G@5:D FD65 (ID2:29 41.8; 2>6D 2.23; 2=\$:D2T 4). .6E, :? C6=2E:@? E@ IDC26=2?5 &2=6DE:?6, C2E96C E92? 24E:?8 2D 2 D@FC46 7@C C64@?4:=2E:@? 2=E@@ @7E6? E96 7:8FC6 @7 A3C292> D66>D E@ 24E 2D 2 32D:D 7@C 4@?7=4E:? E96 =2?5. I?5665, :E:D ?@E23=6 9@H >2?J @7 E96 86@8C2A9:42=7=2D9A@:?ED :? E96 4@F?ECJ D66> E@ 92G6 2? 61A=4:E 4@??64E:@? H:E9 E96 DE@C:6D @7 A3C292>.

A &2=6DE:?:2? A?8=:42? H@>2?, E96 H:76 @7 2 AC:6DE, 96CD6=7 H:E9 IDC26=: ?2E:@?2=:EJ, H9@ 925 =:G65 3@E9 :? IDC26= 2?5 :? E96 - 6DE B2?<, E@=5 E96 DE@CJ @7 96C 6?4@F?E6C H:E9 2 - 6DE6C? C9C:DE:2? E@FC:DE :? 6CFD2=6>. %? 5:D4@G6C:?8 E92E D96 H2D =:G:?8 2E E96 E:>6 :? E96 - 6DE B2?<, E96 E@FC:DE 925 E@=5 96C, S. @F 42?TE 36 2 C62= C9C:DE:2?, 3642FD6 :7 J@F H6C6 2 C62= C9C:DE:2? J@F H@F=5 92G6 <?@H? E92E G@5 92D 8:G6? E9:D =2?5 E@ E96 56D46?52?ED @7 A3C292>, ID224 2?5 24@3 2?5 J@F H@F=5 92G6 8@E FA 2?5 =67E E96 4@F?ECJ!T *9:D H2D D66>:?8=J 2? 2=FD:@? E@ G@5ID 4@G6?2?E H:E9 A3C292> @7 =2?5, 56D46?52?ED 2?5 ?2E:@?9@@5 C676CC65 E@ :? G6?6D:D, 12, 15 2?5 17.

H@H6G6C E96C6 2C6 2D@ 2 ?F > 36C @7 :?:E:2E:G6D H:E9:? IDC26=:ED6=7 E92E =:?< E96 :?DA:C2E:@? 7@C E96:C H@C< E@ 3F:=5 2 D92C65 7FEFC6 7@C IDC26=D 6H:D9 2?5 AC23 4:E:K6?D E@ E96 7:8FC6 @7 \$A3C292 > I. #@DE ?@E23=6 @7 E96D6 :D A6C92AD \$E96 A3C292 > FF?5T H9@D6 G2C:@FD :?:E:2E:G6D D66 < \$E@ 7F=7:= E96 AC@ > :D6 @7 7F= 2?5 6BF2= 4:E:K6?D9:A 2?5 4@ > A=6E6 6BF2=EJ @7 D@4:2= 2?5 A@=E:42= C:89ED 7@C IDC26=ID 6H:D9 2?5 AC23 4:E:K6?D, 2D 6 > 3@5:65 :? IDC26=ID D64=2C2E:@? @7 I?56A6?56?46T (#:DD:@?) E2E6 > 6?E; *96 A3C292 > FF?5, HHH.23C292 > 7F?5.@C8).

 $C\$.\%0\%a^*/\$a2! \#!^*! .a((5\ 1^* !./0++ \ 0\$! \ ,.+) \%! / 0+ Ab.a\$a) \\ a/"1("\%(! \ a^* \ /, \%01a(\%! \ \%' J!/1/ C\$.\%0. Y! 0 /! .\%+1/ \\ J! 3\%\$7C\$.\%0\%a^* !^*#a\#!) !^*0 \%! 2\%ab(5"+.c! / C\$.\%0%a^*/ 0+ \\ a .!// 0\$! -1!/0\%^* a/ 0+ 3\$!0\$! ./1c\$ a .! a \%*# \%' 0\$! +^*(5 ,+//\(b(! \%'0!.,.!0a0\)**. W$a0 + 5+1 0\$\%'?$

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C9C:DE:2?D 42? D66 :? =G:?8 6H:D9 EC25:E:@?D @7 C6G6C6?46 7@C
*@C29 2 =@G6 @7 G@5 2?5 4@?D6BF6?E 56D:C6 E@ 36 72:E97F= E@
G@5TD C6G62=65 H@C5. AD E96J D66< E@ 36 72:E97F=:? =@G:?8 D6CG:46
@7 E96 D2>6 G@5, C9C:DE:2?D 42? =62C? 7C@> 5:2=@8F6 H:E9 6HD
C682C5:?8 3:3=42=E61ED 2?5:562D E92E E96J D92C6 H:E9 @?6
2?@E96C, 7C@> E96:C 5:776C6?E A6CDA64E:G6D.) 92C65 E61ED, 2?5
D92C65 36=67D 2?5 G2=F6D 2C:D:?8 7C@> E96>, 6?23=6 C9C:DE:2?D
2?5 6HD E@ DE2?5, DA62< 2?5 24E E@86E96C, @7E6? H:E9 @E96CD, @?
:DDF6D @7 AF3=4 4@?46C? :? @FC D@4:6EJ, :?4=F5:?8 :DDF6D C6=2E:?8
E@ E96 H@C=5 2D G@5TD 4C62E:@?, E96 5:8?:EJ @7 E96 9F>2? A6CD@?
2?5 7C665@> @7 C6=8:@?, :?4=F5:?8 C6=8:@FD AC24E:46D @7 A2CE:4F=2C
G2=F6 E@ C9C:DE:2?:EJ @C F52:D>.

*96 1?FC@5F4F:@? F@ F9:D 5@4F >6?F @A6?65 3.J DF2F:?8 2D :FD 7:CDF AC:?4:A=6:

*96 C9C:DE:2?P 6H:D9 C6=2E:@?D9:A :D 2 8:7E @7 G@5 E@ E96 C9FC49, H9:49 :D E@ 36 C646:G65 H:E9 42C6, C6DA64E 2?5 8C2E:EF56, D@ E92E H6 >2J=62C? >@C6 7F=J 23@FE G@5ID AFCA@D6D 7@C FD 2?5 2=E96 H@C=5.

I? E96 AC6G:@FD E9C66 492AE6CD, E96 7@4FD 92D 366? @? E96@=@8:42= BF6DE:@?D :? C9C:DE:2?P 6H:D9 C6=2E:@?D E92E 2C:D6 7C@> :DDF6D E92E 4@?E:?F6 E@ 86?6C2E6 E6?D:@?D: 6G2?86=:D> 2?5 4@?G6CD:@?, E6249:?8 2?5 AC6249:?8, 2?5 IDC26= 2D =2?5 2?5 DE2E6. - :E9 C682C5 E@ C92AE6CD 3 2?5 4 :? A2CE:4F=2C, E96C6 :D E96 A@E6?E:2= 7@C E96 G6DE:86D @7 E96 \$E6249:?8 @7 4@?E6>AEI 23@FE F52:D> 7C@> AC6G:@FD 86?6C2E:@?D @7 C9C:DE:2?:EJ E@

4@??64E H:E9 A6CD:DE6?E 4FCC6?ED @7 2?E:D6 > :E:D > H:E9:? @FC 4F=FC6.

- 9:-6 255C6DD:?8 E96 5:77:4F= BF6DE:@?D E92E 2C6 C2:D65 96C6, E96D6

492AE6CD 92G6 2=D@ D@F89E E@ D9@H 9@H C9C:DE:2?D \$> 2J =62C? >@C6

7F=J 23@FE G@5TD AFCA@D6D 7@C FD 2?5 2= E96 H@C=5T 2D E96J C646:G6

H:E9 C6DA64E 2?5 8C2E:EF56 E96 \$8:7ET @7 E96 C9C:DE:2?P 6H:D9 C6=2E:@?D9:A.

AD H:= 36 61A=@C65 :? 2 >@>6?E, E96 5:776C6?46D 36EH66? C9C:DE:2?:EJ 2?5 F52:D> H:E9 C682C5 E@ 6E9:42=5:D46C?>6?E ?665 E@ 36 24<?@H=65865, 2=@?8 H:E9 2 =6824J 96C6 E@@@7 DFDA:4:@? 2?5 >:DF?56CDE2?5:?8. . 6E E96 4@>>@? 8C@F?5 36EH66? C9C:DE:2?D 2?5 6HD :D 6G:56?E H96? :E 4@>6D E@ D66<:?8 E@ <?@H E96 H:= @7 G@5 7@C C:89E 24E:@?. *96C6 :D 2-D@, E96C67@C6, D:8?:7:42?E @AA@CEF?:EJ 3@E9 7@C

Critical Issues

E96D6 3@<\D @7 #@D6D 2C6 2E E96 962CE @7 E96 C6=2E:@?D9:A 36EH66? IDC26=2?5 G@5, H:E9 E96:C 2AA=42E:@? E@ 36 4@?D:56C65 H:E9 E96 36?67:E @7 E96 46?EFC:6D-@?8 (233:?:4 4@?G6CD2E:@? 42AEFC65 :? E96 #:5C2D9, #:D9?29 2?5 *2=>F5 2?5 E96? @? E9C@F89 6H:D9 E6249:?8 E@ E96 AC6D6?E 52J. 126

I? E96 A@=6>:42=61492?86D 36EH66? C9C:DE:2?D 2?5 6HD :? E96
AC6->@56C? A6C:@5, 6HD 4C:E:4:K65 C9C:DE:2?D 7@C A:4<:?8 2?5 49@@D:?8
36EH66? E96 4@>>2?5>6?ED @7 E96 "2H, 2D :7 2?J @7 E96 :?DECF4E:@?
G@5 925 8:G6? @?46 7@C 2=E:>6 4@F=5 36 DF>>2C:=J 23C@82E65.
C9C:DE:2?D 4C:E:4:K65 6HD 7@C 4=:?8:?8 E@ E96 =6EE6C @7 E96 "2H H96? :ED
DA:C:EF2=7F=7:=>6?E 925 366? >256 A=2:? :? C9C:DE 2?5 :? E96 C9FC49.
*96 E6249:?8 @7 E96 &C@E6DE2?E (67@C>6CD 4@?EC:3FE65 E@ 2 D92CA6?:?8
@7 E96 5:DE:?4E:@? 36EH66? \$=2HT E92E H:= @?=J 4@?56>? 2?5 \$8C246T E92E
2=@?6 42? D2G6. - 96? C9C:DE:2?D 3682? E@ 36 2H2C6 @7 E96 D:8?:7:42?46
@7 E96 *2=>F5 2?5 @E96C A@DE-3:3=42=E6TED 7@C E96:C 6H:D9
4@?E6>A@C2C:6D, E96J 86?6C2=J E@@< 2 G6CJ ?682E:G6 G:6H @7 E96>,
2C8F:?8 E92E E96J @3DECF4E65 2 ECFE97F=C625:?8 @7 E96) 4C:AEFC6D
E96>D6=G6D. *@ D@>66TE6?E, E9:D>:CC@C65 E96 G6C5:4E @7 6H:D9
D49@=2CD @? E96 \$6H *6DE2>6?E.

I? E96 = 89E @7 H6=4@>6 56G6=@A>6?ED :? C9C:DE:2?P 6H:D9 C6=2E:@?D @G6C E96 = 2DE D:1EJ J62CD, 2D C6G:6H65 :? 62C=6C 492AE6CD @7 E9:D 5@4F>6?E, :E :D :>A@CE2?E E@ 24<?@H=6586 2?5 E@ C6;64E ?682E:G6 DE6C6@EJA6D E92E 92G6 366? 4FCC6?E 2>@?8 C9C:DE:2?D C682C5:?8 6H:D9 2EE:EF56D E@ "2H/*@C29. F@C :?DE2?46, E96 244FD2E:@? @7 \$=682=D>I, H:E9 C682C5 E@ 6H:D9 EC25:E:@? 2D 2 H9@=6 :? E96 2?4:6?E H@C=5 (:?4=F5:?8 E96 E:>6 @7 6DFD) 2?5 DF3D6BF6?E=J, C6AC6D6?ED 2? :?244FC2E6 2?5 F?96=A7F=>:DC625:?8 @7 E96 \$=@G6 @7 E96 "2H/*@C29I E92E :D D@ 61F36C2?E=J 61AC6DD65 :? &D2=> 119 2?5 E92E 92D 366? 2 492C24E6C:DE:4762EFC6 @7 6H:D9 61:DE6?46.127 *92E :D

?@E E@ D2J E92E E96C6 92G6 ?6G6C 366? 72:=FC6D E@ <66A :? 32=2?46 CF-6 2?5 AC:?4:A=6, >@C2=:>A6C2E:G6 2?5 D64@?52CJ 2AA=:42E:@?; 3FE DF49 72:=FC6D 2C6 A2CE @7 E96 72=6? 9F > 2? 4@?5:E:@?, 2?5 612 > A=6D 42? 36 7@F?5 2 > @?8 A6@A=6 @7 2=C6=:8:@?D 2?5 ?@?6. :?4=F5:?8 C9C:DE:2?D.

- :E9 72=D6 2?5 D:>A=DE:4 4@?EC2DED :? E9:D 2C62 92G:?8 366? AFE 2D:56, D:?46 E96 1960D DE2E6>6?ED @? C9C:DE:2?P 6H:D9 C6=2E:@?D 7C@> 3@E9 E96 C9C:DE:2? 2?5 E96 6H:D9 D:56 92G6 D@F89E E@ 9:89=:89E E96 D92C65 6E9:42=4@?46C?D 2?5 @G6C=2AA:?8 6E9:42=7C2>6H@C<D @7 E96 EH@ 72:E9D. F@C :?DE2?46, T\$! Wa5 +" D%a(+#1! 2DD6CED:

C9C:DE:2?D 2?5 6HD D92C6 @?6 9@A6, H9:49 :D 7@C E96 C62=D2E:@? @7 G@5TD ! :?85@> @? 62CE9. *@86E96C E96J H2:E 7@C :E, AC2J 7@C :E 2?5 AC6A2C6 7@C :E. *9:D ! :?85@> :D ?@E9:?8 =6DD E92? 9F > 2? =:76 2?5 D@4:6EJ EC2?D7@C > 65, EC2?D7:8FC65 2?5 EC2?DA2C6?E E@ E96 8=@CJ @7 G@5. 128

9:D 6D492F@=@8:42= 2AAC@249 F@ 567:??8 F96 4@>>@? 6F9:42= 8C@F?5 7@C C9C:DE:2?D 2?5 6HD C62AA62CD :? F96 1994 5@4F>6?F C\$.\%0\%a/a* J! 3/, H9:49 >@G6D 7C@> F96 9@A6 F92E \SE96 H@C=5 42? 36 EC2?D7@C>65, E92E :E 42? 036 C6A2:C65RT F@ F96 4=2:> F92E D66<:?8 2?5 AC2J:?8 7@C F96 4@>:?8 @7 G@5TD <:?85@> 4@>>:ED C9C:DE:2?D 2?5 6HD F@86E96C \SE@ F96 E2D<@7 >2<:?8 F96 H@C=5 2 >@C6 ;FDE 2?5 >@C6 A62467F=A=246; F@ F96 AC@A6C C64@8?:F:@? @7 F96 9F>2? H@CF9 2?5 5:8?:EJ @7 6G6CJ 9F>2? A6CD@?I.\^{129}):>:=2C=J, S\a.\%* O*! H+,!? 4@>>6?ED @? F96 A2DD286 4:E65 23@G6 7C@> F96 Wa5 +" D\%a(+\#1!):

%? DF49 2 32D:D @7 D92C65 G2=F6D, 6HD 2?5 C9C:DE:2?D 42? H@C<
E@86E96C \$7@C D@4:2=;FDE:46, C6DA64E 7@C E96 C:89ED @7 A6CD@?D 2?5
?2E:@?D, 2?5 D@4:2=2?5 :?E6C?2E:@?2=C64@?4:\(\text{

+* P.! ac\$%*# a* Ca0! c\$! /\(\forall \), 11). *96J H:= 2±D@ C64@8?:K6 E92E #FD:: >D, H:?5FD,):<9D 2?5 >6 > 36CD @7 @E96C 72:E9 4@ >> F?:E:6D, 2D H6= 2D @E96C A6@A=6 @7 8@@5 H:=, 42? :? >2?J D:EF2E:@?D 36 E96:C A2CE?6CD :? E9:D H@C<.\^{130}

*96 5@4F > 6?E 5@6D ?@E, 9@H6G6C, DA64:7J H92E AC64:D6=J E96 SD92C65 G2=F6DT 2C6, H9:=6 2D E96 D64@?5 D6?E6?46 :> A=6D, E96D6 G2=F6D > 2J H6= 36 D92C65 :? H9@=6 @C A2CE H:E9 > 2?J @E96C A6@A=6, D@>6 C6=8:@FD 2?5 D@>6 ?@E.) F49 DE2E6 > 6?ED 7C@> E96 C9C:DE:2? D:56 7:?5 2 D:8?:7:42?E A2C2=6=:? E96 6:89E9 SH@C5T 7C@> Dab.1 E) ! 0:

6HD 2?5 C9C:DE:2?D > FDE H@C < E@86E96C 7@C ; FDE:46 2?5 A6246.0 6HD 2?5 C9C:DE:2?D, 6249 :? E96:C @H? H2J, C64@8?:K6 E96 F?C6566 > 65 DE2E6 @7 E96 H@C=5 2D C67=64E65 :? E96 A6CD:DE6?46 @7 A6CD64FE:@?, A@G6CEJ, 2?5 9F > 2? 568C252E:@? 2?5 >:D6CJ. A=F9@F89 ; FDE:46 2?5 A6246 2C6 7:?2=J G@5TD, @FC ;@:?E 677@CED, E@86E96C H:E9 E9@D6 @7 @E96C 72:E9 4@ > > F?:E:6D, H:= 96=A 3C:?8 E96 <:?85@ > @7 G@5 7@C H9:49 H6 9@A6 2?5 =@?8.) 6A2C2E6=J 2?5 E@86E96C, H6 > FDE H@C < E@ 3C:?8 ; FDE:46 2?5 A6246 E@ @FC H@C=5. I? E9:D 6?E6CAC:D6, H6 2C6 8F:565 3J E96 G:D:@? @7 E96 AC@A96ED @7 IDC26=. 131

*96 H@C5:?8 96C6 96=A7F=J 6>A92D:K6D E92E 7@C C9C:DE:2?D 2?5 6HD 2=<6, E96C6 :D 2 7F?52>6?E2=C6=2E:@?D9:A 36EH66? 9F>2? E2D< 2?5 5:G:?6 8:7E :? 6E9:4D: \$;FDE:46 2?5 A6246 2C6 7:?2=J G@5TDT, 2D :D E96 <:?85@> 7@C H9:49 H6 AC2J, J6E @FC \$677@CED N H:= 96=A 3C:?8 :ET :?E@ C62=EJ. #@C6@G6C, 7@C 3@E9 E96C6 :D 2 A@H6C7F= 6E9:42=G:D:@? E92E 7@=@HD 7C@> 5@4EC:?2=4@>>:E>6?ED (7@C 612>A=6, \$E96 F?C6566>65 DE2E6 @7 E96 H@C=5T, :>A=J:?8 2 5@4EC:?6 @7 C656>AE:@?), J6E E96 24E:@? E92E 7@=@HD 7C@> E9:D G:D:@? 42? 7:?5 A2CE?6CD :? A6@A=6 H9@ 5@ ?@E D92C6 E9@D6 4@>>:E>6?ED. 132

T\$! Wa5 +" D%a(+#1! 2=D@ 4=2:>65 E92E 6HD, #FD=:>D 2?5 C90:DE:2?D \$D92C6 2 4@>>@? @3=;82E;@? E@ =@G6 G@5 H:E9 E96:C H9@=6 36:?8 2?5 E96:C ?6:893@FCD 2D E96 > D6=G6DT. *92E S@3=:82E:@?T :D 32D65 @? A2DD286D :? E96 \$6H *6DE2 > 6?E C6DA@?5:?8 E@ BF6DE:@?D 23@FE E96 \$7:CDET @C \$8C62E6DET @7 E96 4@>>2?5>6?ED :? E96 "2H @7 #@D6D, *96 2?DH6C 4@>3:?:?8 D6FE6(@?@>J 6.4-5 2?5 "6G:E:4FD 19.18 :D 8:G6? 3J 6DFD :? #2C< 12.28-34 2?5 #2EE96H 22.34-40, E9@F89 :? "F<6 10.25 :E 4@>6D 7C@> \$2 =2HJ6CT, H9@D6 C6DA@?D6 6DFD AC2:D6D, IE:D ?@E @?=J E96 42D6 E92E C9C:DE:2?D 2?5 6HD 2=<6 C625 E96 "2H/*@C29 @7 #@D6D 2=@?8D:56 E96 &C@A96ED 2?5 E96 - C:E:?8D 2D H@-J) 4C:AEFC6. I? E96 \$6H *6DE2 > 6?E, H9:49 C9C:DE:2?D ;F1E2A@D6 E@ E96D6 E61ED, 6DFD C9C:DE @FC E62496C 4@>>6?ED @? E96 "2H @7 #@D6D, 6?8286D :? 5632E6 H:E9 @E96C 6H:D9 E62496CD 23@FE 9@H E@:?E6CAC6E:E 2?5 AC@A@D6D EH@ A2DD286D E92E 2C6 A2CE @7 E96 "2H 2D E96 96C>6?6FE:42=<6J 7@C F?56CDE2?5:?8 E96 H9@=6 @7 E96 "2H 2?5 7@C 7F=1:=:?8 E96 H:=@7 G@5. *96 \$6H *6DE2 > 6?E 4@ > >:ED E96 C9F(49 F@ 4@?E:?F:?8 F@ 962(F9C@F89 E96 (625:?8 2?5 DEF5.) @7 E96 %=5 *6DE2>6?E E96 8F:52?46 @7 **G**@5 7@C @FC =:G6D.

@7 E96 "2HI, 6DFDI C6DA@?D6 E@ E96 BF6DE:@? 23@FE E96 8C62E6DE

4@ > > 2?5 > 6?E, 92D 7@F?5 2? 6?5FC:?8 A=246 H:E9:? C9C:DE:2? E6249:?8

2?5 H@CD9:A, :?4=F5:?8 4@?E6 > A@C2CJ A?8=42? = EFC8J, H96C6 :E :D

D@ > 6E: > 6D FD65 E@ AC6A2C6 E96 4@?8C682E:@? 7@C AC2J6CD @7 A6?:E6?46.

- 92E :D 42=65 E96 7:CDE @C 8C62E6DE 4@ > > 2?5 > 6?E :? E96 E6249:?8 @7

6DFD 92D 2 46?EC2=C@=6 :? 6H:D9 = EFC8J, 2D E96) 96 > 2, H9:49 > 2J 36

56D4C:365 2D E96 6H:D9 4C65@. #@C6@G6C, E96 C9FC49 @7 E?8=2?5 92D

D92C65 H:E9 (233:?:4 F52:D> 2 4@ > >:E > 6?E E@ > 2:?E2:?:?8 2 C68F=2C

A2EE6C? @7 4@CA@C2E6 52:=J AC2J6C, :?4=F5:?8 C64:E2E:@? @7 AD2=>D H:E9:?

E9:D, H:E9 2? 61A64E2E:@? E92E A2CE:4:A2E:@? H:= 36 > @C2=J 7@C > 2E:G6.

-92E92D364@>6<?@H?:?C9C:DE:2?EC25:E:@?2DSE96)F>>2CJ

*9FD :? E96 B@@< @7 C@>>@? &C2J6C, H9:49 92D D92A65 E96
C9FC49 @7 E?8=2?5TD H@CD9:A 7@C ?62C=J 92=J 2 >:=6??:F>, E96 *6?
C@>>2?5>6?ED 2C6 E@ 36 C64:E65 2E E96 368:??:?8 @7 6G6CJ D6CG:46
@7 H@=J C@>>F?:@?, 2D 2 C6>:?56C @7 G@5TD H:= 7@C @FC =:G6D 2?5 E@
AC@G:56 2 DA246 7@C 4@?D:56C2E:@? @7 H96C6 H6 92G6 C6D:DE65 :E. F@=@H:?8
>65:6G2= C2E9@=:4 AC24E:46 2?5 :? <66A:?8 H:E9 D@>6 C@?E:?6?E2=
&C@E6DE2?E 49FC496D, E96 C9FC49 @7 E?8=2?5 :?4=F565 E96 >6>@C:K2E:@?
@7 E96 *6? C@>>2?5>6?ED 2D A2CE @7 :ED C2E649:D> :? E96 D:1E66?E9
46?EFCJ, H9:49 2= 42?5:52E6D 7@C 4@?7:C>2E:@? H6C6 61A64E65 E@ 36 23=6
E@ C64:E6. *92E EC25:E:@? @7 >2<:?8 E96 *6? C@>>2?5>6?ED @?6 @7 2
92?57F=@7 32D:4 E61ED 7@C 5:D4:A=6D9:A :D 4@?E:?F65 :? E96 \$&:=8C:>T
>2E6C:2=D AC6A2C65 7@C 4@?E6>A@C2CJ FD6 H:E9:? E96 C9FC49 @7 E?8=2?5
7@C ?FCEFC:?8 2?5 E6249:?8 E9@D6 H9@ 2C6 ?6H E@ E96 C9C:DE:2? 72:E9.133

^{*9:}D D92C:?8 @7 3:3=:42=D@FC46D 7@C >@C2=7@C>2E:@? 2?5 56=:36C2E:@? E0. 9:?@

^{7-6-4-6:}C5.5@C5.5A (:C20)C:J10-9:?3 (:C0.56E(-6)0.5H(A@10)6T-4)17.692000@

A?8=42?D 2C6 23=6 E@ 277:C> E96D6 DE2E6>6?ED. *96J 42? 5@ D@ 7@C C62D@?D E92E H@F=5 36 D92C65 3J > 2?J @E96C C9C:DE:2?D 2D H6=. :?4=F5:?8 E96 C64@8?:E:@? @7 6G6CJ 9F > 2? 36:?8 2D 4C62E65 :? E96 5:G:?6 : > 286, 275 F96 4@>>:F>67F F@ 24F F@H2C5D @F96CD : 7 2 H2 J F92F : D 4@?D:DF6?F H:E9 E92E C64@8?:E:@?. I? E96 D2>6 A:646 7C@> H9:49 E9:D 5@4F>6?E BF@E65 :? :ED @A6?:?8 A2C28C2A9D, AC493:D9@A FDE:? - 6=3J HC@E6 E92E $SA = 9F > 2?D \ 2C6 > 256 \ :? \ E96 \ :> 286 \ @7 \ G@5. \ A?E:D6 > :E:D > F?56C > :?6D$ 2?5 5:DE@CED E9:D ECFE9: :E :D E96 ?682E:@? @7 G@5TD A=2? 7@C 9:D 4C62E:@? 2?5 :D E96C67@C6 2 56?:2=@7 G@5 9:>D6=7.I¹³⁶ H:D AC65646DD@C, AC493:D9@A (@H2? - :=:2>D, HC@E6 @? G:D:E:?8 AFD49H:EK-B:C<6?2F :? 2008, S*9:D :D 2 A:=8C:>286 ?@F F@ 2 9@=J A=246 3FF F@ 2 A=246 @7 FFF6C AC@72?:FJ P 2 A=246 H96C6 E96 ?2>6 @7 G@5 H2D AC@72?65 3642FD6 E96 :>286 @7 G@5 :? 9F>2? 36:?8D H2D 23FD65 2?5 5:D7:8FC65.I¹³⁷ I? E96 D2>6 J62C, @? G:D:E:?8 E96 D2>6 A=246, E96 E96? C9:67 (233:. @?2E92?) 24<D, D2:5: SH6C6 E96J > FC56C65 E96 :> 286 @7 G@5 E92E =: G6D :? 6G6CJ > 2?, H@ > 2? 2?5 49:=5. 2?5 96C6 E96J EC:65 E@ D:=6?46 G@5 9:>D6=7. *96 G@:46 E92E 462D6=6DD=J D2JD QD@ ?@E >FC56C. 5@ ?@E DE2?5 :5=J 3J E96 3=@@5 @7 J@FC ?6:893@FC, 5@ ?@E @AAC6DD E96 DEC2?86C.RT¹³⁸) 92C65 E96@=@8:42=E6249:?8 AC@G:56D 2 D92C65 G:D:@? @7 9F > 2? = 76, H:E9 :ED 5:8?:EJ 2?5 C6DA@?D:3:=EJ, 2?5 F96C67@C6 2 D92C65 A6CDA64F:G6 @? 9F > 2? >@C2=FJ.

A?8=42?D 2=D@ 92G6 D:8?:7:42?E (6D@FC46D H:E9:? E96:C @H? EC25:E:@? :? E9:D 4@?E6IE, :?4=F5:?8 E96 FD6 @7 E96 \$) F >> 2CJ @7 E96 "2HT 2?5 E96 *6? C@ >> 2?5 > 6?ED :? =:EFC8:42= 2?5 42E6496E:42= 4@?E6IED. #@C6@G6C, ACE:4=6 , II @7 E96 *9:CEJ-\$:?6 ACE:4=6D @7 (6=8:@? @7 E96 C9FC49 @7 E?8=2?5 277:C > D E92E:

*960%-5 *6DE2 > 6?E :D ?@E 4@?EC2CJ E@ E96 \$6H: 7@C 3@E9 :? E96 %-5 2?5 \$6H *6DE2 > 6?E 6G6C=2DE:?8 = 76 :D @776C65 E@ #2?<:?5 3J C9C:DE, H9@ :D E96 @?=J #65:2E@C 36EH66? G@5 2?5 #2?, 36:?8 3@E9 G@5

2?5 #2?. - 96C67@C6 E96J 2C6 ?@E E@ 36 962C5, H9:49 76:8? E92E E96 @=5 F2E96CD 5:5 =@@< @?=J 7@C EC2?D:E@CJ AC@>:D6D. A=E9@F89

2C8F65 3J D2G:5 \$@G2<, 2 6H:D9 D49@=2C, E92E C9C:DE:2? 4@?46AE:@?D @7 ?2EFC2==2H A2C2=6=E96 6H:D9:562 @7 E96 \$@29:56=2HD.140 I? 3@E9 42D6D, C6G6=2E:@?:D E2<6? E@ 277:C> E96 6I:DE6?46 @7 >@C2=?@C>D E92E 2C6 2G2:=23=6 E@ 2=, 2?5 E92E A6@A=6 @7 72:E9 42? 277:C> 3@E9 E@ 2?5 H:E9 E9@D6 H9@ 5@ ?@E D92C6 E96:C 72:E9.

I? 2 4@?E61E @7 AC6DD:?8 4@?46C?D C682C5:?8 D@4:2=2?5 6?G:C@?>6?E2=6E9:4D, 2?5 H96C6 6E9:42=5:D28C66>6?ED 616C4:D6 2 566A=J A@=2C:K:?8 67764E H:E9:? 2?5 36EH66? D@4:6E:6D, C9C:DE:2?D 2?5 6HD 42? 7:?5 D:8?:7:42?E 4@>>@? 8C@F?5 :? 5:2=@8F6 H:E9 @?6 2?@E96C. *61ED E92E 3@E9 C646:G6 2D H@=J) 4C:AEFC6 4@?E2:? 5:G:?6=J C6G62=65 :?DECF4E:@? E@ IDC26=, H9:49 E@F496D @? 2=2C62D @7 9F>2? =76 2?5 4@?E:?F6D E@ AC@G:56 8F:52?46 7@C FD E@52J :? E96 6G6CJ52J 492=6?86D @7 >@C2==G:?8, 2D H6=

C6DA@?5 72:E97F=J E@ 5:G:?6 4@>>2?5D H@F=5 36 D:8?:7:42?E 724E@CD 7@C C9C:DE:2?D E@ 4@?D:56C :? 6?828:?8 H:E9 DF49 5632E6D. *96 C@=6 @7 4:C4F>4:D:@? :? E96 4@G6?2?E H:E9 A3C292> 8:G6D :E 2 A2CE:4F=2C :>A@CE2?46 :? 6H:D9 D6=7-F?56CDE2?5:?8 E92E C9C:DE:2?D D9@F=5 2=D@

T olog and ra i a ing og r n Good ai '

\$\text{SI? G@@5 F2:E9I :D 2 ;@:?E :?:E:2E:G6 @7 E96 AC493:D9@A @7 C2?E6C3FCJ 2?5 E96 +! TD C9:67 (233: EA9C2: > #:CG:D E92E D66 < D E@ 6?4@FC286 =\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\text{\text{\text{\text{\text{\text{\text{\text{\text{\te}\text{\t

- 6-4@>:?8 A2CE:4:A2?ED E@ E96 =2F?49 6G6?E 2E "2>36E9 &2=246:? 2016, E96 AC493:D9@A @FE=:?65 E96 G2=F6D 4@>>@? E@ C9C:DE:2?:EJ 2?5 F52:D>, 4@?4=F5:?8:

- 9:-6 3F:-5:?8 8@@5 H@C<:?8 C6=2E:@?D9:AD :D 2 =@?8-E6C> 6?562G@FC, 2±625J 2 C2?86 @7 A@D:E:G6 56G6=@A>6?ED 92G6 366? C6A@CE65, DF49 2D 2 AC@;64E E@ 5:DEC:3FE6 6146DD 7@@5 7C@> 6H:D9 4@>>F?:EJ 46-63C2E:@?D G:2 49FC49-9@DE65 7@@5 32?<D, 2?5 :?4C62D65 C9C:DE:2? :?G@=G6>6?E H:E9 #:EKG29 D2J, H9:49 AC@>@E6D D@4:2=24E:@? :? 6H:D9 4@>>F?:E:6D. *96 C@F?4:=7@C C9C:DE:2?D 2?5 6HD 92D 6?4@FC2865 D:>:=2C 4@=23@C2E:@? E9C@F89 :ED (233:/C=6C8J A4E:@? \$6EH@C<, H9:49 92D >6>36CD 7C@> 2 C2?86 @7 C9C:DE:2? 2?5 6H:D9 56?@>:?2E:@?D.

W\$a0 a.! 0\$! +b/0ac(!/0+J!3/a* C\$.\%0\%a*/3+.'\%\#0+\#!0\\$!. +*/+c\%a(ac0\%+*,.+\&!c0/,a* \$+3)\#\\$00\\$!/! b! a .!//!? old o good and I asan i is for ro rs od II og r in ni '(&D2=>133.1).

*96 D2?4E:EJ @7 E96 @442D:@? H2D A2=A23=6.) E2?5:?8 36D:56 H:D GC246, AC493:D9@A FDE:? - 6=3J, 6249 @7 FD 23D@C365 :? AC2J6C 724:?8 E96 ! @E6= P E96 - 6DE6C? - 2=:? 6CFD2=6 > P H2D 2 >@ >6?E E92E H:= 7@C 6G6C C6 > 2:? H:E9 > 6 2D F?:BF6=J A@H6C7F=2?5 :?DA:C:?8. I H2D 24FE6=J 2H2C6 E92E, 9@H6G6C :?56=3=6 E96 > 2C< @7 E92E 61A6C:6?46 H2D FA@? > 6 A6CD@?2=J, 72C >@C6 4@?D6BF6?E:2= H2D E96 566A, DJ > 3@=4 :>A@CE2?46 @7 2? AC493:D9@A @7 C2?E6C3FCJ 2?5 C9:67 (233: AC2J:?8 2=@?8D:56 6249 @E96C :? <:?D9:A 367@C6 E96 C6 > ?2?ED @7 E96 H@=J *6 > A=6.

AD H6 AC2J65, >J E9@F89ED EFC?65 E@ E96 A2:? E92E 92D D@ @7E6? >2CC65 E96 =@?8 9:DE@CJ @7 C9C:DE:2?P 6H:D9 C6=2E:@?D. IE H2D 2 >@>6?E @7 86?F:?6 962=?8. H@H I H@F=5 =@G6 E@ 42=@FE, 324< E9C@F89 E96 2???2=D @7 9:DE@CJ, E@ =6E >J 2?46DE@CD <?@H E92E E96C6 H@F=5 36 2 E:>6 @7 H2C> 7C:6?5D9:A 36EH66? DF446DD:G6 AC493:D9@AD @7 C2?E6C3FCJ 2?5 C9:67 (233:D. F@C:7 I 4@F=5 D@>69@H =6E E96> <?@H E92E @?6 52J E96 7@C6>@DE DA:C:EF2==6256C @7 E96 A?8=42? C9FC49 H@F=5;@:? 2 C9:67 (233::? AC2J6C 2E E96 - 6DE6C? - 2=:? 2 D@G6C6:8? 6H:D9)E2E6, C62=K:?8 @FC EH@ E9@FD2?5 J62C=@?8 5C62> @7 C6EFC?:?8 E@ @FC 9@>6=2?5, E96J H@F=5 92G6 D:>A=J 7@F?5 :E:?4@?46:G23=6.

*96 DJ>3@:D> @7 E92E DA64:2=>@>6?E H:=C6>2:? H:E9 >6, 2?5 >2?J 6HD 2C@F?5 E96 H@C-5, -@?8 :?E@ E96 7FEFC6. *96 566A=J C@@E65 4@??64E:@? >6>36CD @7 E96 6H:D9 72:E9 92G6 H:E9 E96 -2?5 @7 IDC26= :D 2 7F?52>6?E2= A2CE @7 H9@ H6 2C6, 2?5 8@6D E@ E96 962CE @7 @FC 6H:D9 :56?E:EJ. &C2J:?8 E@86E96C 36D:56 E96 -2DE G6DE:86D @7 E96) 64@?5 *6>A=6, 3F:-E :? 515 BC 2?5 56DEC@J65 :? 70 AD, H2D 2 G6CJ 4@?D:56C23=6 86DEFC6,

2?5 56>@?DEC2E65 2 D:?46C6 F?56CDE2?5:?8 @7, :? E96 H@C5D @7 E9:D 5@4F>6?E, \$E96 566A 2?5 72C-C6249:?8 C6=2E:@?D9:A 36EH66? 6H:D9 A6@A=6 2?5 3@E9 E96 =2?5 2?5 E96)E2E6 @7 IDC26=I.

AD 7@C >J 2?46DE@CD, E96:C :?E6C24E:@? H:E9 C9C:DE:2?:EJ >62?E 36:?8 72465 H:E9 E96 3CFE2=EJ @7 E96 CCFD256D; :E >62?E 36:?8 7@C465 E@ 49@@D6 36EH66? 4@?G6CE:?8 E@ C9C:DE:2?:EJ @C 46CE2:? 562E9; :E >62?E 72=D6 244FD2E:@?D @7 D24C:7:4:?8 C9C:DE:2? 49:=5C6? 2E &2DD@G6C E@ @3E2:? 3=@65 7@C >2EK29 :? H92E 3642 >6 E96 4CF6= B=@65 ":36=; :E >62?E C6BF:C:?8 E96 8C62E (233:?:4 =6256CD, :?4=F5:?8 2 7:8FC6 ?@ =6DD E92? E96 (2>32? (\$249>2?:56D, 1194P1270), E@ AF3=:4=J 5676?5 E96:C 72:E9 282:?DE AC@>:?6?E AC:6DED 2D A2CE @7 E96 :8?@>:?J @7 E96 D:DAFE2E:@?D, C6DF=E:?8 :? 46?D@CD9:A, G:@-6?46 2?5 D=2F89E6C.

1?4@?46:G23=6. . 6E E96C6 H6 H6C6.

*96C6 2C6 G6CJ C2C6 2?5 DA64:2=:?DE2?46D H96?, 2D C9:67 (233:, @?6 :D

*96 C62=:>A24E @7 E9:D FA@? AC@DA64E:G6 6H:D9 A2CE:4:A2?ED :? @FC :?E6C72:E9 5:2=@8F6 :D, :?6G:E23=J, E@ 5:>:?:D9 E96 32D:D @7 ECFDE E92E :D D@ :?E68C2=E@ E96 C6=2E:@?D9:A. A?J DFDA:4:@? E92E @FC 6?8286>6?E :D 36:?8 5:C64E65 3J 2 AFCA@D6 @E96C E92? E96 36EE6C>6?E @7 @FC >FEF2=F?56CDE2?5:?8 2?5 2 ?646DD2CJ 4@?EC:3FE:@? E@ E96 4@>>@? 8@@5 :D 92C>7F=2?5 E2<6D FD D92CA=J 324<H2C5D. *9:D :D BF:E6 2A2CE 7C@> E96

4@?46AE:@? @7 6249 @E96C 2?5 E96 7FEFC6 H6 42? 4C62E6 E@86E96C, D@ E92E H6 >2J, :? @FC7F?52>6?E2=J 5:776C6?E 3FE 4@??64E65 H2JD, 36 2 D@FC46 @7 :>>6?D6 3=6DD:?8 E@ @FC H@C=5.

C\$% " Rabb%E, \$.a%) M% 2%/

"JHI:C / : \\$\text{A7N NL} \times \\$\text{\left}\\$6C8: 6C9 *: HD\\$\text{\left}\\$I: \\$\text{\left}\\$C< \\$CI:9DI: H ID 6C \\$C8: CI . \\$\text{\left}\\$\text{\l

9J86I>DC6A , GJHI 6C9 , =: DBBJC>IN +: 8JG>IN , GJHI E 6K6367A: 6I

LLL =: I DG< J@>B6<: H 9DLCAD69H \$: HHDCH \$: 6GC: 9 , +, E9; 688: HH: 9

!CI: G 6x = DCHJA161X: GDJE D; I=: G8=7xH=DEHX DJC8x

\$DC9DC =J68= DJH: (J7kH=xC< E

```
/68D ,0 6NADG
-CX: GHNN (G: HH EE T C9G: L "68D7H W": LH 6C9 =GHIX6CHX XC +JH6C
' M;DG9 ' M;DG9 - C:X: GH>IN (G: HH
                                 EE T "J9x= % $>: J
                                WCK: CIXC =GHIX6C !9: CIXN (6JA !<C6I>JH 6C9 , =: D9DH>JH !X X : C<I DAB7: G< :9
                              / HH: CH8=6; IA8=: -CI: GHJ8=JC<: C 0JB &: J: C
,: HI6B: CI KDA , Q7×C<: C %D=G +>: 7: 8@
                                           EE T $: DC6G9 . *JI<: GH
                                                $: JK: C (::I: GH
   D=C +=: G7D@
                                $DC9DC DCIxCJJB
                                                        ' H@6G +@6GH6JC:
6C9 *:>96G K6AK>@
                                                           (:67D9N %
 : C96>8@HDC
                                    8=6EI: G W': L\(\frac{1}{2}\) = (: DEA: L=D : \(\frac{1}{2}\): K: \(\frac{1}{2}\)
": HJHX 6C9 EE: C93M W%: HH>6C8 DC<G: <61>DCH 6C9 , G693\DC6A = JG8=: HX
!HG6: A 1JK6A
```

```
N %D6AO +1: ×CH8=C: ×9: G ×C G: HEDCH: ID I=: G: C8= L6A: G GC: HI *: C6C L=D =69
LGHI: C 67DJI I=: X;: GDGHN D; I=: W+: BXX G68: X 6C9 L=DB =: 688JH: 9 D;
                         6CIXH: BXX8 EG: ?J9X8: H +::: < A: M :XC
                                        166CH 666N 2D=C *JI=: 6:D69 &" 6x4:×=
 X@xCHDC - CxX: GHxIN (G: HH
                                 Ε
+:: I=: 6CCDJC8: B: CI:GDB I=: !CI:GC6IxDC6A DAD86JHI *: B: B7G6C8: Mx6C8: ! *
              6K6x67A: 6I = IIEH = DAD86JHIG: B: B7G6C8: 8DB B: 9x6 GDDB HIDG: H
LDG@C< 9: : XXXDC 6CIXH: BXXXB 688: HH: 9
*D7:GI + /\HIG\8=
                                       &: L 1D6@ +8=D8@: C 8: I=: :6Gb: G
LDG@ D: 9L6G9 A6CC: GN
          &: L 1D@ %68% M6C
.=: : <NEI>6689 HJGKX: H DCAN ×C FJDI61>DCH ×C DI=: G 6C8×: CI 6JI=DGH HJ8= 6H I=: ": L*H=
=\HIDG\( 6C \) "DH: E=JH \quad DG I=: I: MIH \quad H:: \%: C6=: B \quad + I: GC
                   KDA ": GJH6A: B !HG6: A 869: BN D: +8>: C8: H 6C9 JB6C>>: H
             T JGI=:G (:I:G+8=P):G
               6B7G>9<: % 6GK6G9 - C*X: GH>IN (G: HH
*DH: B6GN *69;DG9 *J: I=: G ×C =: G H: B×C6A 7DD@
                      &: L 1DG@ +: 67JGN (G: HH 6G<J: 9 I=61 N=×=X =GHIDAD<N
ж: K>167AN <: C: G61: 9 6CIH: ВУНВ
+:: ;DG: M6BEA: *DH: B6GN *69;DG9 *J: I=: G
                                                    T 6C D=C +=: G7D@
                 &: L 1DG@ GDHHGD69
                                            EE
                                                       $DC9DC DJCI
                                                                           EE
  Т
%668 +6E: GHI: X
                                                             $DC9DC + % (G: HH
       EE T *DL6C/#A6BH
                                                $DC9DC DCIxCJJB
  Т
 DG 6C DK: GK>: L D: $JI=: GXH HI6I: B: CIH 67DJI ": LH 6C9 "J96HB H:: $NC96A *DE: G
                                      $DC9DC D9A: N : 69
                                                                   FF
. =: >C:AJ: C8: D: I=: 9D8JB: CI
                                               # 6AHD H×C>:86CI =: G: HJBB6G0: 9
УС G: 9: G8@ % +8=L: x10: G W, =: , 6EGDDI D; CIXI: ВХХНВ , =: 9: ВDCx16IxDC D; I=:
": I HX xC
                                  KDA
          : 9 1: =J96 6J: G: I 6A 'M:DG9 (: G<6BDC (G: HH
                                                                   EE
                                                                           Т
+:: 6AHD *>8=6G9 6GK: N
                                                                ' G: <DC 6H869:
LD: M6BEA: H 66: <\X: C \times I =: W. =: DAD<N 6C9 E6681\xi : \X :: A: 81\times DC 61 I=: : : C9 D: I=\times I
```

8=6EI: 6 7DI= 9\text{H8JHH: 9 \times 6K\times ! \$6C<BJ\footnote{B}

```
EA68: H XID I=: IL: CIX I= 8: CIJGN ;: 6IJGX< ;DG XCHI6C8: X I=: = HIDGN D; I=: #>: A8:
ED<GDB xC (DA6C9 xC
"JA: H !H668
                                   &: L 1DG@ DAI *=xC: =6GI 6C9 / xCHIDC
EE T
,=: LDG@ D; I=: B: G86C (G: H7NI: G6C : DG<: DDI %DDG:
                                                                   6C9 D: I=:
*: K9 "6B: H (66@: H ;6DB I=: =J68= D; C<N6C9 T L6H K: 6N H×C>;86CI ×C
M6N)C< ;DJC96I)DCH ;DG 6 8=6C<: >C 6EEGD68= ID 7>7N>86N JC9: GHI6C9>C< 6C9 ID
8DCI: BEDGGGN G: AGI>DCH
. =: BDG: :6B*6G I:GB W DND86JHIX *H JH: 9 *C I=*H 9D8JB: CI G6I=:G I=6C W+=D6=X DG
6 76x; 9*H8JHH*DC D; I=: 9*;; G: CI H=69: H D; B: 6C*C< 7: IL: : C I=: H: I: GBH H:: I=:
169 . 6H=: B L: 7Hxl: LLL N69K6H=: B DG< NK : C = DAD86JHI G: HDJG8: 58: CI: G I=: 5
=DAD86JHI 6HE 688: HH: 9
DAC *x8=BDC9
      $DC9DC . 6A: CI>C: %>18=: AA
                    EE T 'C I=: 9: 761: DK: G I=: : K6AJ6I>DC D; DC=D: ;;: G
/DGI=: C
>C I=>H G: <669 H:: +I: E=: C * 6NC: H
            %>CC: 6EDAH DGIG: HH (G: HH
                                          DC 6GI= : DG<: JCH>C<: G : 9
                                     $DC9DC ADDBH7JGN , A6G@ 6C9
DC %6Gx16xC *D7: GI *DN6A : 9
                                                          %H=6L6@6 В: 686C
```

: \$ ()-17E =/39> : 9.97A ()-77E =/39> \$ ()-17=J9 (H)

%66x16xC HHD8x61xDC

: G@: A: N - C:X: GH>IN D; 6A>;DGC>6 (G: HH ,=: W7ADD9 A>7: N/ HJGK:X: 9 × C HDB:

```
. 61×86C !!
                         : 8A6G61xDC DC I=: *: A61xDC D; I=: =J68= ID &DC =GH1x6C
                CD I: MI 6K6x67A: 6I LLL K6Ix86C K6 6G8=X: =XII58DJC8xH >>5
*: A>>>DCH
K6I×86C58DJC8x 9D8JB: CIH K6I >>59: 8A5
                                              5CDHIG6 6: I6I: 5: C = IBA 688: HH: 9
+:: I=: kHI D: 9D8JB: CIH DC I=: L: 7 E6<: :DG I=: DBB\( \)H\( \)DC :DG \( \): k\( \)DJH \( \): M6I\( \)DCH
L<sub>3</sub>= I=: ": LH 6I LLL K6I86C K6 GDB6C58JG6 EDCI×86A58DJC84H 8=GHIJC>HJ7 ×C9: M
>C9: M5G: A6I>DCH ?: LH = IB 688: HH: 9
%8=6: A *6BH: N W+161: B: CI 7N I=: G8=7H=DE D; 6CI: G7JGN HHJ: 9; GDB $6B7: I=
(6468: DC %668= X EG≥CI: 9 6H EE: C9>M ×C (:I: G +8=C: >9: G
                                         $DC9DC + % (G: HH
+::::DG::M6BEA: * # +DJA::C
                                                                      %xCC: 6EDAH
J<H7JG< DGIG: HH (G: HH G: HH G: HH G: HH G: H) 6.78: %GH=6M W =GHI 6C9 I=: JNJG: H :=: ": L'H=
(: DEA: \timesC =G\timesHI\times6C , =: DAD<NX \timesC
 6B769<: 6B769<: -CX: GHXN (G: HH EE T %6II=: L .6E>:
           6B76>9<: "6B:H A6G@: D
                                                    (G: 8H: 9: :>C\|DC \|H = DL: K: G
9>;; 8JAI L=: DI=: GH T E: G=6EH BDHI CDI67AN I=: ": L: H= I=: DAD<: 6C 6K:9 &DK6@ T
=6K: 6G<J: 9 | =6| 6 | | =: 8M6>B | =6| 8: G|6×C 6HE: 8|H D: ": L*H= N*: 6H > L6H ×C | =: :%HI
8: CIJGN =6K: 7:: C WHJE: GH: 9: 9X 7N L=6I D9 =6H 9DC: × ": HJH =GHI H × C: 68I
*CI: <664 ID =GHI%C: 64= 6C9 7 I=61 I=H 846*B *C HDB: T CDI 644 T :DGBH C: : 9 CDI
EG: K: C1 BJIJ6A G: HE: 81 6C9 9%AD<7: 7: IL:: C =GHI%CH 6C9 ": LH +:: :DG xCH16C8:
 6K>9 &DK6@
                                                                      66C9 *6F>9H
: G9B6CH
                Ε
                                  E6G6<G6E= , =: K: GH>DC D; I=: >7A: 8>I: 9 >H I=:
 6×1= 6C9 ' 69: 6 DBB*HH*DC
$DC9DC =J68= DJH: (J7NH=xC< EE T +:: 6AHD ": G: BN : G<: C
                                                                $DC9DC , , A6G@
/#A6B DG7JGN
                                                        $DC9DC + % (G: HH
 DG7. JGN
                                               $DC9DC &: L 1DG@ . . A6G@
%6II=: L . &DK: CHDC
&: L 1DG@ ' M:DG9 - C:X: GH>N (G: HH
*x8=669 6NH
                                                                              &: L
 6K: C 16A: -CX: GH>IN (G: HH
```

 C<N86C DBBJC>DC &: ILD@; DG !CI: G;6>l= DC8: GCH

```
, =: I: MI D; I=: *: HDAJI>DCH; GDB I=: $6B7: I= DC;: G: C8: B6N 7: ; DJC9 6I
LLL 6C<1/86C8DBBJC:DC DG< B: 9:6
                                                 E9: 688: HH: 9
*: HDAJI>DC D: I=:
                          $6B7: I= DC;: G: C8: I: MI 6I LLL 6C<\86C8DBBJC>DC
DG< G: HDJG8: H 9D8JB: CI A>766GN A6B7: I= 8DC:: G: C8: G: HDJJI>DC
688: HH: 9
.: MI >C +=: GB6C : 9
                            KDA EE T
.:MI ×C +=:GB6C :9
                            KDA E
; GI-8A: O. !!! D; I=: ,=&IN &:C: GI-8A: H D; *: A>>DC D; I=: =JG8= D; C<A6C9
=6HIX6CH LXM G: 8: X: I=: 8=6M: C<: ;GDB ": LH I=6I I=: %: HHX6CX8 EGDBXH: D; E: 68:
6C9 ?JHI:8: =6H N: I ID 7: G: 61:00: 9 +:: ;DG: M6BEA: !H6:6= 6C9 I=: : B7A: B6I:8
%: HH;6C:8 EGDB;H: I=6I WI=: N L;M 7: 6I I=: % HLDG9H;CID EADJ<=H=6G: HX K
+:: CDI: 67DK: :DG HDB: D: I=: IAI: G6IJG: DC I=>H HJ7?: 81
                      8=6EI:G W": L*H= (: DEA: L=D : A:K: *C ": HJHX 6C9 EE: C9*M
 W%: HHX6CX8 DC<G: <61xDCH 6C9 , G69x1xDC6A = JG8=: HX , =: G: xH 6 <GDLxC< CJB7: G D;
HIJ9>: H ×C I=>H 66: 6 ×C8IJ9×C< *>8=669 66K: N
```

%6G@ + #>C0: G G6C9 *6E>9H() 3627EWk. 3 () TJ-15. 1 ((.1 ((7);E9 (E)G. 7 (9)) 45 (*

6GA>HA: (61: GCDH1: G

```
6K6x67A: 6I LLL D: DJB: C: DG< : C G: HDJG8: H 9D8JB: CIH L88EGD< G6BB: H
XI: GG: N=DJH 9-6AD<J: 6C9 8DDE: G6IDC XI: GG: N=DJH IGJHI 6C9 G: HE: 8I: 8JB: C86A
8DCH>9: G6I>DCH DC ?: L>H= 8=GHI>6C 9>6AD<J: 688: HH: 9
                                                            BN " * $: K * C:
6C9 %6G8 2K> G: IIA: G : 9
                                                         C9:9\x\DC'M:DG9
1: 68=xC< 6C9 EG: 68=xC<
!CI: G 64= DCHJAI6IX: GDJE D: I=: G8=7H=DEHX DJC8A
                                                                   F
G8=7×H=DEHX DJC8×I
                                                    $DC9DC =J68= DJH:
(J71H=xC<
+:: %6GANC " +6ABDC
       %xC: 6EDNH %& J<H7JG< DGIG: HH CC DCL6N "DC: H W DCI: BEI
DG *: HE: 81 ": LH 6C9 "J96*HB *C =G*HI*6C (G: 68=*C<\)
FF
 < BN "*M $: K*C:
      $DC9DC 6GE: G DM>CH
                              #: CC: I= 6xl: N
                                $DC9DC + ( #
%6A8DAB $DL: W/=D /:G: I=:
                                     χ
             1.1
EE
                                  6K6×167A: 6LLL ?HIDG DG< HI67A: >
688: HH: 9
+:: +I: K: %6HDC W": LH "J96:6CH "J96:0C< "J96:HB (GD7A: BH D: 6I: <DG06I:DC ×C
C8>: CI >HIDGNX
                                                      FF
                                                           T
                                                                     6K>9
% %#I: G W I=C%3NN *: I∞DC 6C9 I=: %: 6CxC< D; !DJ96xDH xC C8>: CI U"J96xHBW
                                      EE T .>BDI=N %>8=6: A $6L 6C9
=6GA: H 6AIDC : 9H W
                                          X .=: %6G<>C6N6 *: K>: L D: DD@H
      =IIE B6G<>C6N6 N6G: K>: LD:7DD@H DG< ?: L ?J9: 6C :DGJB 688: HH: 9
9: A: *: X=6GIO W'J96HB X I=: DHE: A D: "D=CX
                                                                FF T
": G: BN / DGI=: C W >;>8JAI ,: MIH %6II=: L X
                                                                EE T
%8=6: A *6BH: N W+161: B: CI 7N I=: G8=7H=DE D; 6CI: G7JGNX
```

, =: ;DGI=8DB:C<8DBB:CI6GN 7N "DC6I=6C />II: C7: G< DC I=: +NC6<D<J: A: 8I>DC6GN L>M

/DGA9 DJC8*A D; =JG8=: H W 8JB: C*86A DCH*9: G61*DCH*DC ": L*H=T =G*H1*6C **AD<J: X

CDI=: G: M6BEA: T 6MHD; GDB 6 = NBC 6HHD8>61: 9 L>I = 9K: CI T LDJA9 7: W DB: 'DB: BB6CJ: M L>I = | NH DE: C>C = EA: 6 ID D9 ID W66CHDB 86EI-K: !H66: M EDI: CI-6MN |
CKD®C< I=: >B6<: D; 7bc9: 9 6C9 9: ;: 6I: 9 + NC6<D<6 6H EG: H: CI: 9 > CI=: 9+8JHH-DC |
E6C: M 6I I=: : C9 D; =6EI: G I=DJ<= 6<6>C > L=M H: : B C6IJ66 ID B6CN = G+H: CO D = NBC 7DD@H |
99: CI>N I=: BH: M: H =: G: L>I = !H66: M 86N-C< DJI; DG D9XH 9: M: G6C8: +DB: =NBC 7DD@H

, =JH HJEEDGI D; !HG6: A 7N =GHIX6CH HXBEAN 7: 86JH: D; I=: =DGGDG D; I=: DAD86JHI DG I=:

```
, =: #6%DH (6A: HIX: 9D8JB: CI INA: 9
                                                                                                                            86C 7: G: 69 61
LLL @6%DHE6A: HIX: EH X9: M E=E 67DJI JH @6%DH E6A: HIX: 9D8JB: CI 688: HH: 9
. =: G: 6G: 6 K6G>: IN D: 8DCK: CI>DCH 6H ID =DL ID G: :: G ID I=: 8JGG: CI HD8>6A 6C9 EDA>86A
: CI>I>: H >C L=61 = GHI>C IG69>DC HDB: I>B: H 86MH I=: DAN $6C9 . =>H I: MI :DMDLH I=:
WHG6: A (6A: HIX: X , =: DG: ×C 6C9 DBBDCL: 6AI= ' ;; 8: HE: 6@H D; WHG6: A 6C9 I=:
'88JE>: 9 (6A: HIXX6C , : GG/DG>: HX , =: 8=D\8: D; I: GB\XCDAD<N \( \text{H} \) CDI \( \text{CDI} \) CI: C9: 9 ID 8DCK: N
6 E6G18JA6G EDH>1DC G: <6G9:C< : xl=: G 8A6xBH ID I: GG/DGN DG C61xDC6A H: A: JC9: GH16C9:C<
DC I=: E6GI D: I=DH: 8JGG: CIAN AXXC< xC I=: DAN $6C9
&61xDC6A": LxH= +8=DA6GH (GD?: 81
                                          6K6x67A: 61 LLL ?8G: A6IxDCH C: 1 67GJ5 B: I5 5 5": LxI=5
+161: B: C15DC5 = GHI>6CH56C95 = GHI>6CNN = IBA 688: HH: 9
) JDI: 9 7N A6G: BDH ×C
                                                                                                        : C: K6 /
                                                                                                                                              F
/DGA9 DJC8xlD; =JG8=:H :CIG6A DBBxl1::
                                           R
                                 RR
                                                                                                                                                   +::
6AHD BDH
.=: G6C<: D: =GHI>6C KD>8: H G: HEDCH>7A: :DG I=:
                                                                                                                         9D8JB: CI >C8JJ9:
H: K: GGA :GDB I=: 6HI: GC =GHI:6C IG69xbC 7DI= 'GI=D9DM 6C9 6I=DI88 !I H H6IJ16GN
ID G: B: B7: G I=61 I=: G: EJ9%1DC D: HJE: GH: HHDCHB L=8= =6H 7: : C HD >BEDG16C1 6
9: K: ADEB: CI 6BDC< *DB6C 6I=DA8 6C9 A7: G6A (GDI: HI6CI =JG8=: H DK: G I=: A6HI
N: 6GH = 6H CDI 7:: C: MI: CH-X: AN G: ;A: 8I: 9 × 6HI: GC 6C9 ' 6: CI6A ' GI=D9DM = JG8=: H
' C HJE: GH: HHDCHB H: : E6<: 67DK:
, =: G: EDGI
                                                      EGD9J8: 9 7N I=: !HG6: A (6A: HIX: %\text{HH\text{DC} &: ILDG@ D:}
I=: (G: H7NI: G>6C = JG8= -+
                                                                       HI61: H 861: <DG>86AN I=61 W.=: :JC96B: CI6A
6HHJBEIDC D; I=H HIJ9N H I=6I CD : M8: EIDC6AHI 8A6>BH 86C 7: ?JHI>>: 9 C DJ6
×CI: G8DCC: 8I: 9 ENJG6NHI/8 LDGA9 X .=: (G: H7NI: 6:6C = JG8= -+ 9: 8A:C: 9 = DL: K: 6
ID G: 8D<Cx0: I=xH 9D8JB: CI 6H G: EG: H: CIxC< xH Kx: L
!| \( \forall \times \) \( \tim
6EEGDK:C<AN D; I=: LDG@ D; %6G@ G6K: GB6CC 6 ": LH= I=: DAD<>6C L=D 6G<J: H 6<6:CHI
I=: 8DC8: EI D; W8=DH: CC: HHX <D: H DC ID HJ<<: HI I=61 =6HI>6CH IDD B6N C: : 9 ID G: KH>I
I=: % DLC I=: DAD<>86A KD867JA6GN D; 8=DH: CC: HH ×C I=: =GHI>6C 8DCI: MI ;D8JH: 9 DC
I=: JCFJ: C: HH D; =GHI H:: =H !CIGD9J8IDC ID %6G@ G6K: GB6C
                                                                                JHI>C , O +NC: G<N DD@H
                                                                                                                                          EE MKT
```

```
MK> , =: 8DGDM6GN D; GJ: <<: B6CCXH 6G<JB: CI B>= I 7: I=6I >; =GHI>6CH L>H= ID = DA9
DC 6 9D8IGC: D; I=: JCFJ: C: HH D; =GHI I=: N 6AHD C:: 9 ID 7: LANC< ID 6ADL "J96HB
H DLC WE6GI-8JA6GH: HX
) JDI: 9 ×C : D::G: N /×D9: G
%6C8=: HI: G %6C8=: HI: G - CX: GH>N (G: HH E
 : %DH=: 6A7: GI6A
                                                                  6B769<: %
 6GK6G9 - C:X: GH>IN (G: HH
 : GC669 "68@HDC WS: <6AHBX
                                                      +EG>C< EE T
                   W_{i} = : /6ND; DE: X H: 8I>DC
 =JG8=: HX DBB; DB; DG; DG; C1: G 6; A= *: A61; DCH
                                                              Ε
                   F
&61>DC6A": L>H= +8=DA6GH (GD?: 81
 DBE66: DC I=\(\mathre{A}\) ED\(\mathre{C}\) I=: 9D8\(\mathre{B}\)B: CI :\(\mathre{G}\)B I=: DC;:\(\mathre{G}\): C8: D; \(\mathre{D}\)GDE:\(\mathre{G}\)C *677\(\mathre{A}\)
 =>: ; *677×C61: D; !HG6: A 6C9 *677×C×86A DJC8×A D; B: G×86
                                                                    6K6x467A: 61
LLL 88% JH 9×6AD<26 G: HDJG8: H 9D8JB: CIH 6C9 HI61: B: CIH ?: L*H= 8: G 86> G86
688: HH: 9
+:: I=: L:7Hxl: ;DG W(xkGbB DJGH: ;DG I=: =GHIx6C "DJGC: NX 61 LLL ExkGbB
8DJGH: DG< ,=: 8DBB6C9B: CIH 6G: DG9: G: 9 HDB: L=61 9>;: G: CIM ×C ": LH= 6C9
 20kk699I 29klk9=
 < DBB×HHxDC:DG *: № XJ.H *: M61xDCH Lxl= I=: ": LH
                                         &DHIG6 : 161: CD
                                                                     H: 81xDC !.
6K63A67A: 6I LLL K6I386C K6 GDB6C58JG6 EDCI3;386A58DJC83H 8=GHIJC>G: M6I3DCH?: LH
5CDHIG6 6: I61: 5: C = IBA 688: HH: 9
                         : < !!! DC ": HJH 6C9 I=: $6L
+:: 6AHD DC;: G: C8: D; JGDE: 6C *677*H =>:; *677*C61: D; !HG6: A 6C9 *677*C86A
 DJC8xID: B: 6x86
                                               L=>8= CDI: H I=61 W : HE>1: EGD:DJC9
D: I=: , DG6= X
/: A7N W. × 36C8: 6C9 *: HDAJI>DCX E
*DL6C / *M>6BH W JH8=L>10T %@: C6JX
                                         6K6×167A: 6I = IIE 6D8
                                                                    76×M
;617::=X: 8DB 6G18A:H E=E 6JH8=L>10 7&@: C6J 688:HH: 9
/ *M>6BH W JH8=L>10 T **** C6.JX
```

'Cl=: 76M6C8: HDJ<=17: IL:: C \(b7: GIN 6C9 \) DG9: G\(\times C \) C<\(b86C \) I669\(b3DC \) H:: 6MHD I=: C<\(b86C \) DBBJC\(bC \) &: ILDG\(c) (DG !Cl: G; 6A = DC8: GCH E L=: G: CDI: 8DBB: CIH DC I=: G: M6I\(bCH = \times T : IL:: C (: Cl: 8DHI \times = GHI\(bC \) I669\(bADC \) 6H 6 ;: 6HI D; I=: DMN +E\(bA \) 6C9 +=6KJDI \(\times C \) ": L\(H= IG69\(bADC \) 6H 6 ;: HI\(bA \) (D8JH: 9 DC I=: <\(\times CD \) I=: , DG6=