
Schedule of Events for Audit Committee Meeting

December 12, 2024

By Videoconference:

University of North Texas System Annual Audit Results and Trends August 31, 2024

Sara Grenier, CPA, Partner



University of North Texas System

Summary of Audit Results

- Accomplished audit plan and timeline
- Good client assistance and responsiveness
- Unmodified “clean” opinion on financial statements
- No significant deficiencies or material weaknesses in internal control over financial reporting identified
- No recorded audit adjustments
- No uncorrected misstatements or disclosures

Required Communications Regarding Our Audit Strategy & Approach

Overview & Responsibilities

Independence

The engagement team, others in our firm, as appropriate, and our firm, have complied with all relevant ethical requirements regarding independence.

Your Responsibilities

Our audit does not relieve management or those charged with governance of your responsibilities. Your responsibilities and ours are further referenced in our contract.

Government Auditing Standards

We will also provide reports as of August 31, 2024, on the following as required by GAGAS:

- Internal control over financial reporting and on compliance and other matters based on an audit of the financial statements performed in accordance with GAGAS.

Reporting Limitations: Our consideration of internal control over financial reporting and our tests of compliance were not designed with an objective of forming an opinion on the effectiveness of internal control or on compliance, and accordingly, we do not express such an opinion

Required Communications Regarding Our Audit Strategy & Approach

Qualitative Aspects of Significant Accounting Policies & Practices

Significant Accounting Policies

Significant accounting policies are described in Note 1 of the audited financial statements.

With respect to new accounting standards adopted during the year, no matters are reportable.

Unusual Policies or Methods

No matters are reportable.

Alternative Accounting Treatments

No matters are reportable.

Management Judgments & Accounting Estimates

Accounting estimates are an integral part of financial statement preparation by management, based on its judgments.

Significant areas of such estimates for which we are prepared to discuss management's estimation process and our procedures for testing the

Required Communications Regarding Our Audit Strategy & Approach

Other Required Communications

Significant Issues Discussed with Management

During the audit process, the following issues were discussed or were the subject of correspondence with management:

- Accounting for the Texas University Fund
- Accounting for TIPPS recoupment

Other Material Communications

- Management representation letter
- We orally communicated to management other deficiencies in internal control identified during our audit that are not considered material weaknesses or significant deficiencies

Contact

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Thank you!

The information set forth in this presentation contains the analysis and conclusions of the author(s) based upon his/her/their research and analysis of industry information and legal authorities. Such analysis and conclusions should not be deemed opinions or conclusions by Forvis Mazars or the author(s) as to any individual situation as situations are fact-specific. The reader should perform their own analysis and form their own conclusions regarding any specific situation. Further, the author(s)' conclusions may be revised without notice with or without changes in industry information and legal authorities.

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Board Briefing

Legal Approval:



Alan Stucky
General Counsel

Recommendation for Approval:



Susan Alanis
Deputy Chancellor;
Finance and Operations



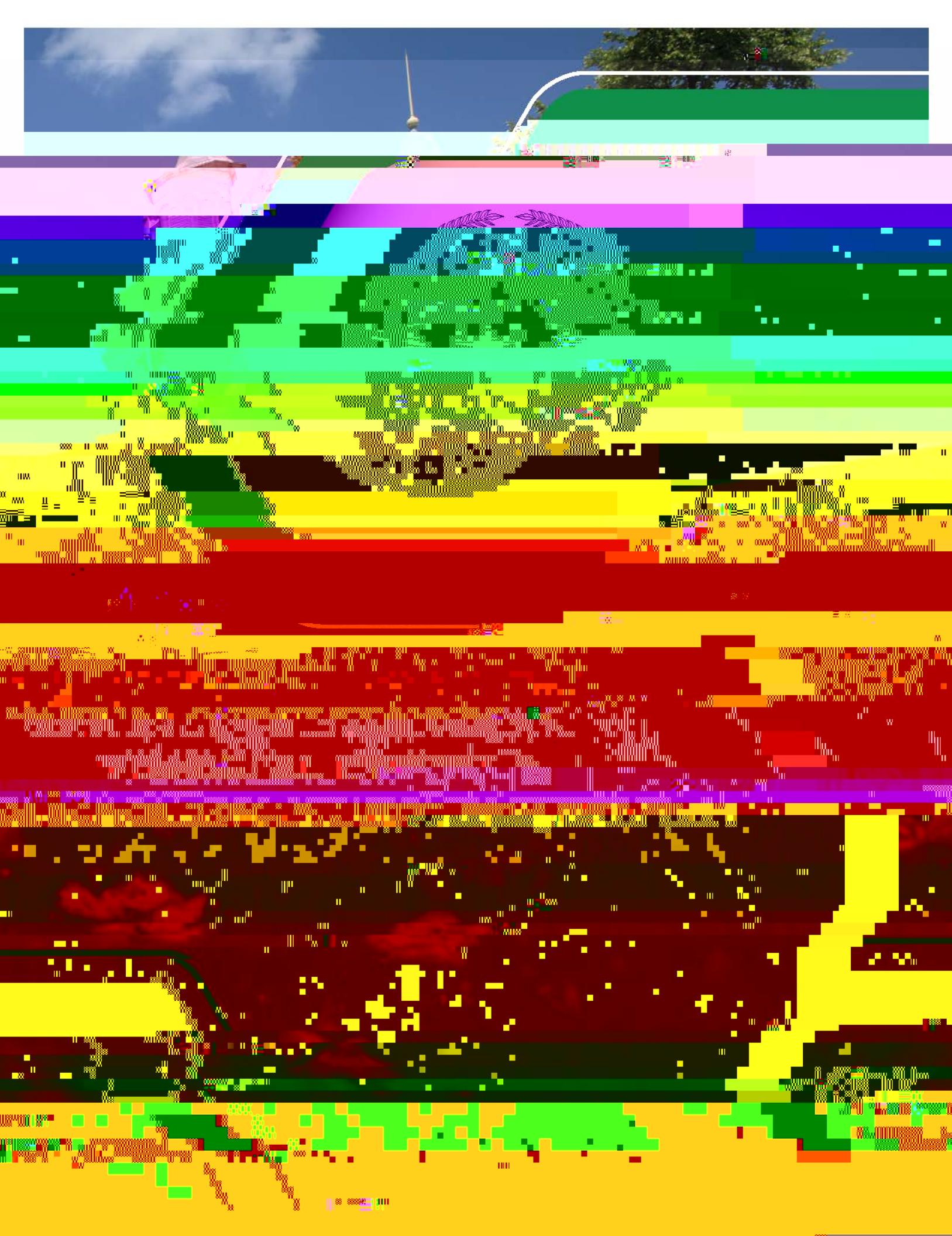
Michael R. Williams
Chancellor

Board Order 20& !

Title: Acceptance of the Externally Audited UNT System FY24 Annual Comprehensive Financial Report (ACFR)

At an official meeting of the Board of Regents of the University of North Texas System properly posted and held on February 13 14 2025 pursuant to a motion made by Regent and seconded by Regent , the Board approved the motion presented below

Whereas, the UNT System Board of Regents Audit Committee Charter established a responsibility for the Audit Co



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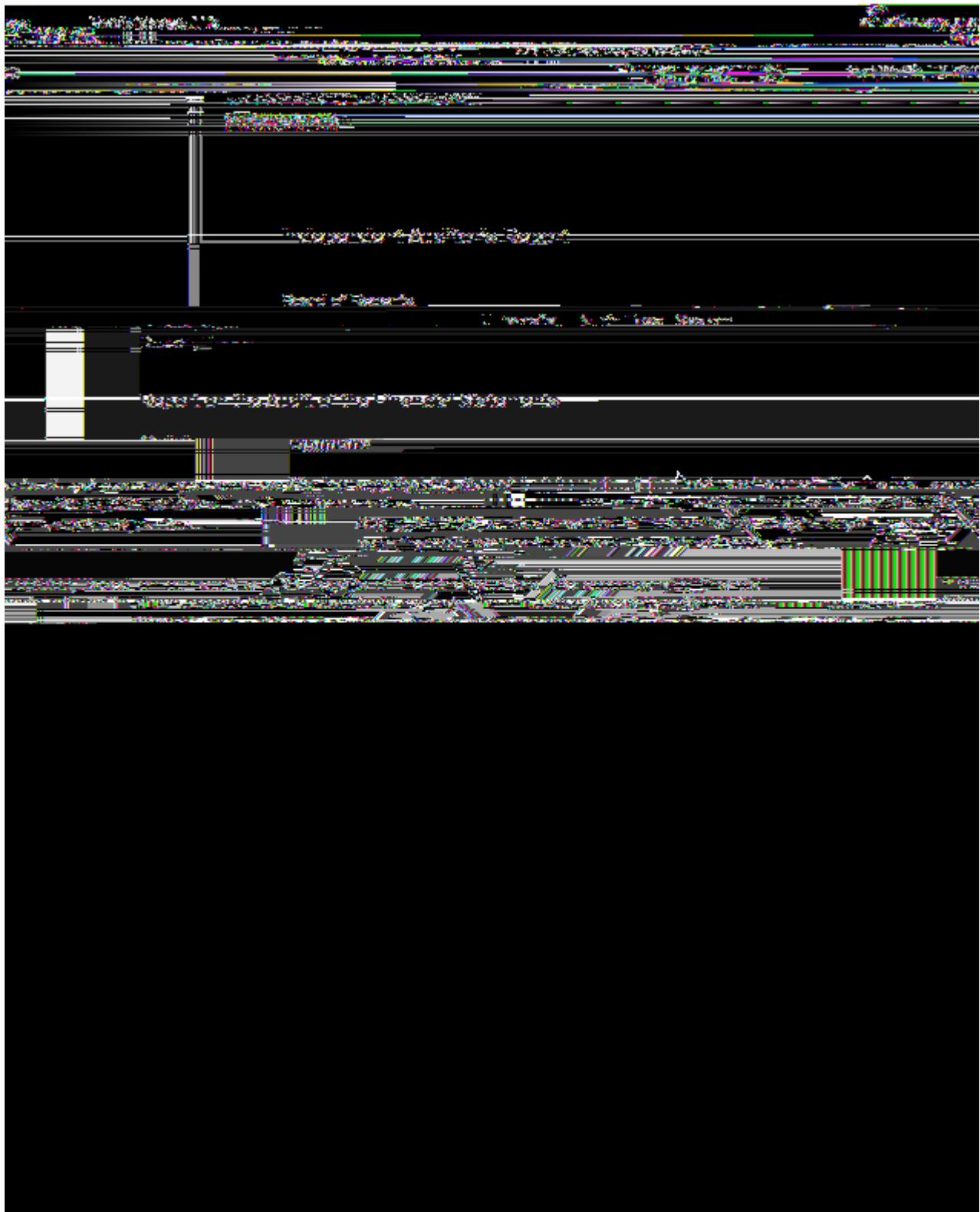
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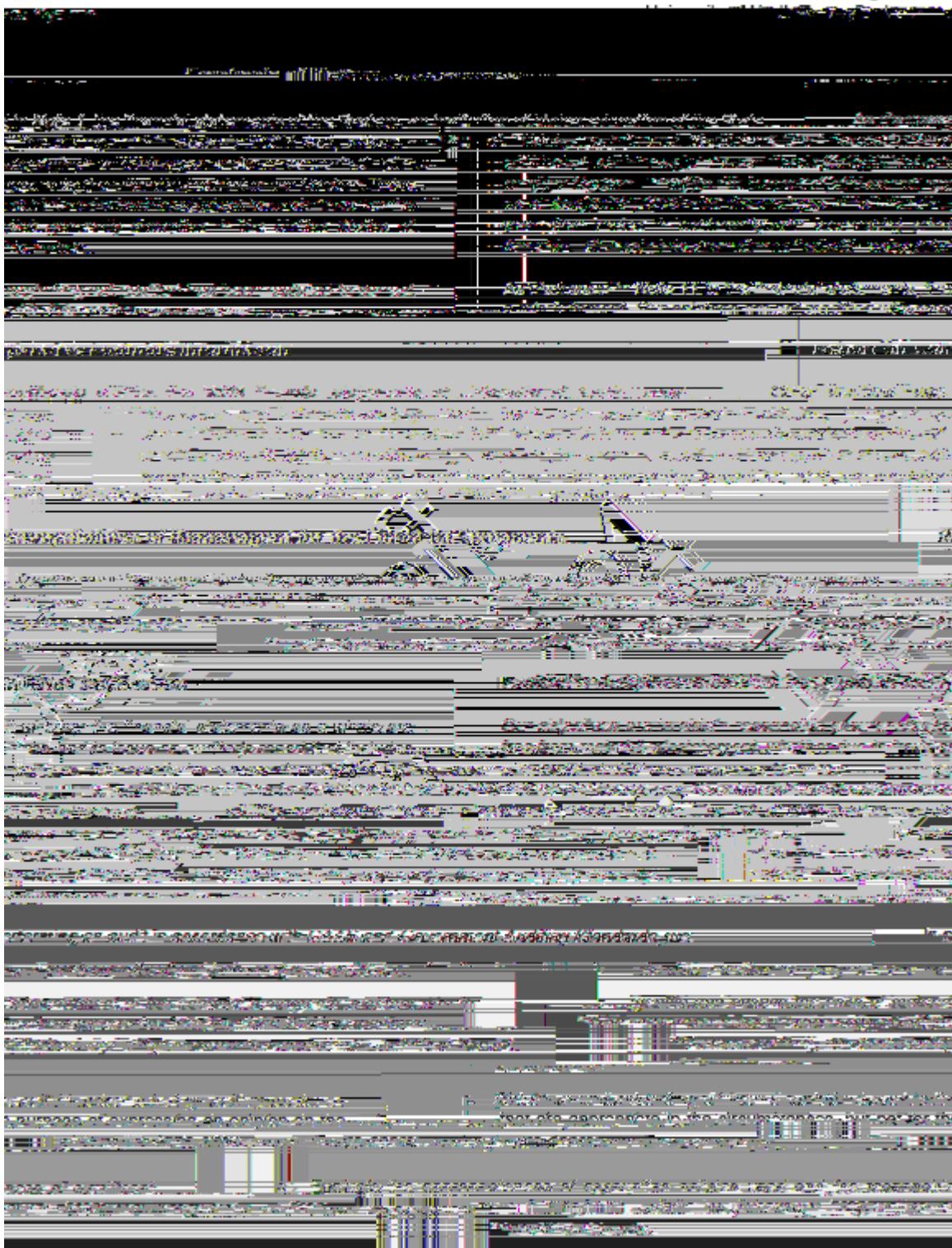
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Board of Regents



Board of Regents
University of North Texas System

We are required to communicate with those charged with governance regarding, among other matters, the

Postponed Supplementary Information

Document prepared for the

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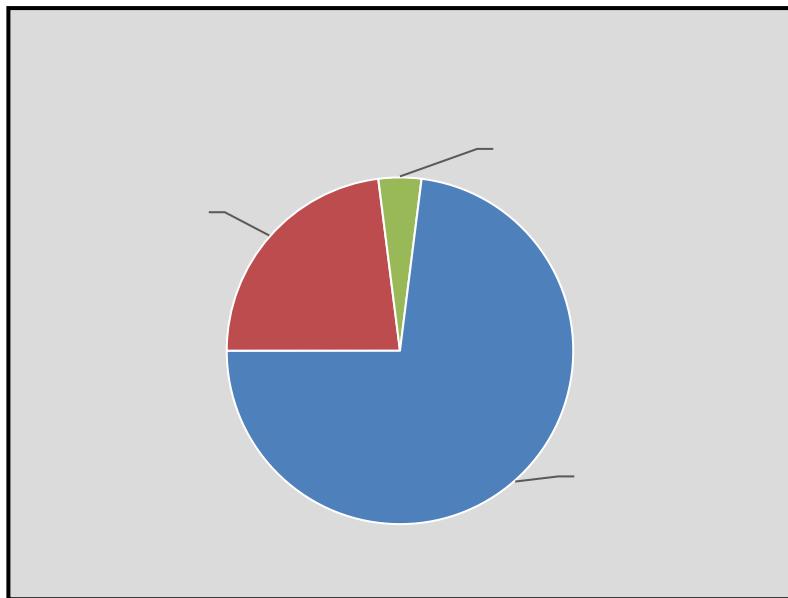
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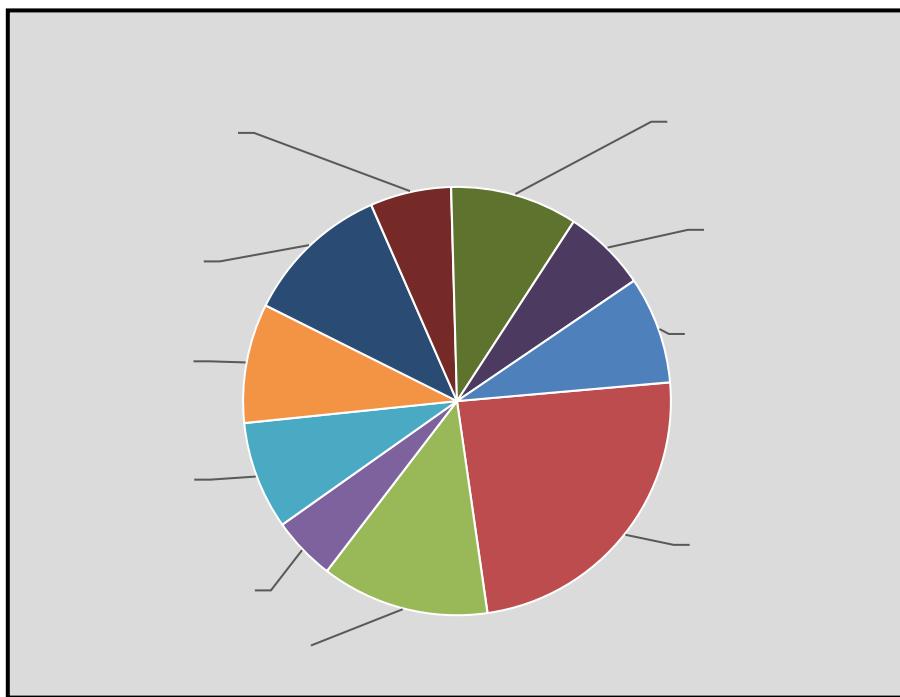
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, GRGP UKPHECPV TCEMIRI TGCPWUOPF GRGPUBCIG ECPUEGIF POPORGOLRI f=J G <[UOO_URLIOC]_ POPORGOLRI
TGCPWUOPF HOD UOAG CRRCRIOKOPF KFGION93MLOCPV TGCPWUOPF PGVIRECOGF IP KRT OCIV/XCNG CH
IPXQJOCALI JG <[UOO_URLIOC]_ POPORGOLRI GRGPUBCIGIPAGGL/GRGPUGOPF HKRNEJ CI CJOPF CJ/GTPOPORGOLRI
GRGPUBCIGIPAGGL/GTPOPORGOLRI TGCPWUOPF GRGPUBCIGIPAGGL/GTPOPORGOLRI CGTJGIPRECOGF EJOPF GIP
POPORGOLRI TGCPWUOPF GRGPUBCIGIPAGGL/GTPOPORGOLRI CGTJGIPRECOGF EJOPF GIP
KRT XCNG CHPXQJOCALI FVWVQOCIV/RCRIOKOPF RICRIOKOPF RECOGF '\$#H OIOP FVWVQ, CRKON CPUMAKP
* WOOPEG 9DCEV,,,*%a HMFUCRRCRIOGF KET ECRKNEOPUMAKP RICRIOKOPF CNECORMB/JCON ECG Y CNEDEG
TCFIRGJOPF CRDGM OPF PVURJ RICRIOKOPF CNECORMB/JCON ECG Y CNEDEG
TCFIRGJOPF CRDGM OPF PVURJ RICRIOKOPF CNECORMB/JCON ECG Y CNEDEG

=JG <UZO_U RTIOCI LOVNEGU CHTGCPWZ CIG VAWKOP CPF KEGU KI KIKANG CRICRIOKUS CPF TICPAU CPF ECPIAECWU . PIQIDGPM TOV CPF RIC TOO GZROPUKP ECPIAECWU VACRCRUEKGAKOMIOTV G<UZO IPZI Z"FI

>7=KUJGVURFICLGLMKGUKY IP=GZUOPF V GOOLWEDRIGI GPKUGIRURKALP IP V GPOV =GZUIG KPF>7=CPICMF
"\$! : " UMGPAUP / OMEI Z "/ CP IREKGUGCHZ f1° HOD / OMEI ZI f1>7=KOP. OGIIKI ; GZCIEJ >PRIGUKY CPF V GJJKJGLYI
TOPMF , CPG IGERKLUIGF =GT SPGTGUGCEJ IRUKALP IP V GPOV =GZUIG KPF, CPUMAKP KUMIFGIYQ CP V G<EGPEG
CPF =GEJ POKD [: GZCIEJ DMHIFI f1RAY KNOGVWEKRONURCEGPFGFU. E C N



, VIGVSKF

6





/DRV G/KEONBOGT. PFGF * WWW! Ž/zł ž"

- 10 C\$%z! z\$ #!!#

ŽYČ

WOPDF/Q3J

Ž#&A ! %B/A f1%

- KEOMAUCPF * NYCPGJ

ž'ʌŋk'z ř'ʌŋk'z

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Digitized by srujanika@gmail.com

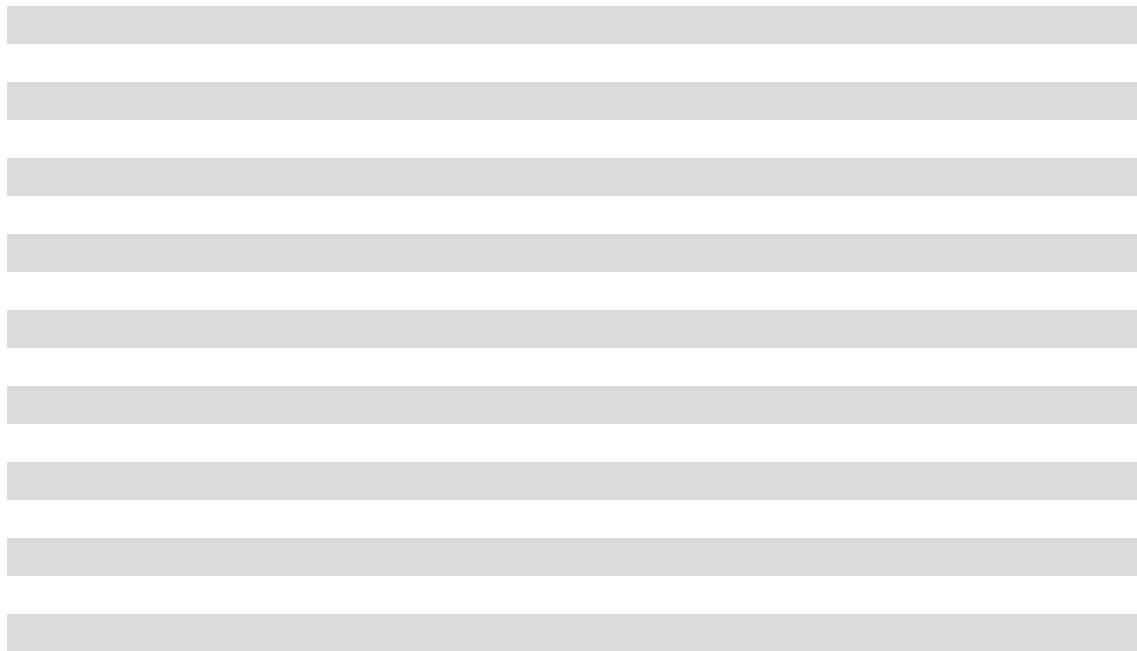
- KEOMAUCPF * NYCPGJ

*VENCZ

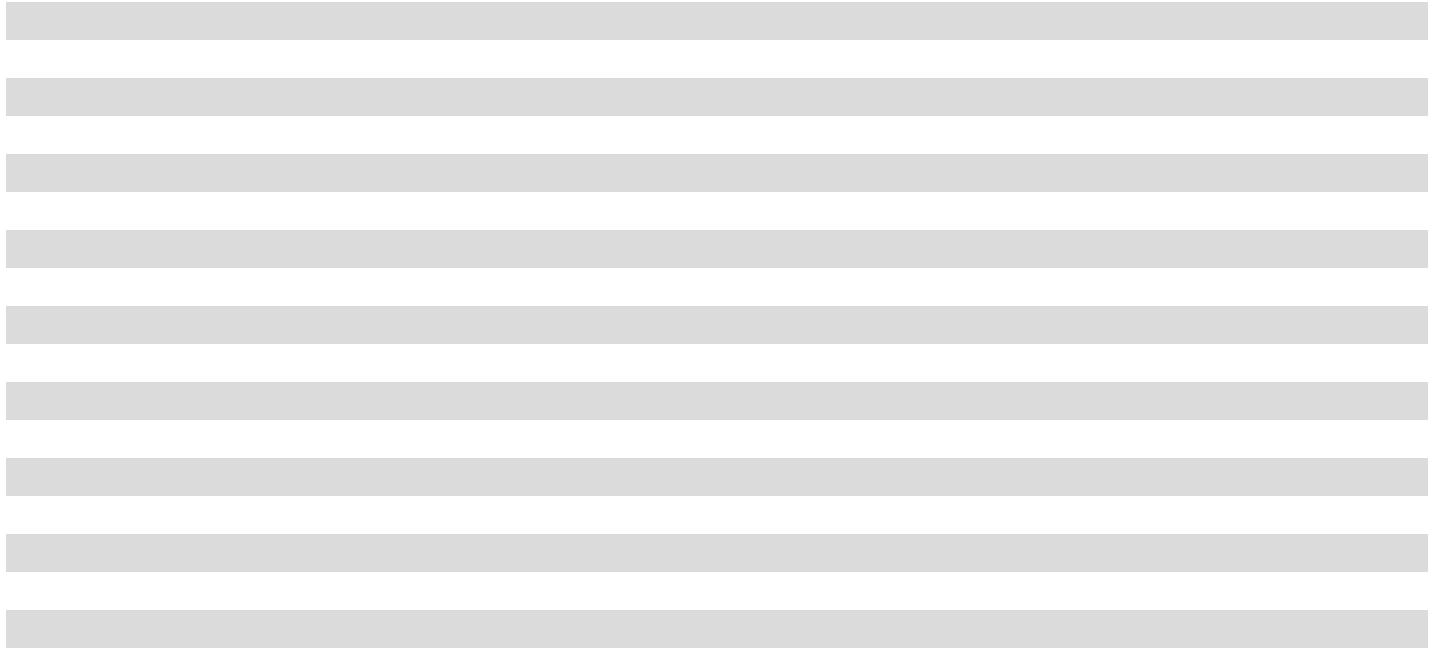
%%

% % F

/DVG/KRONECT. PFGF * VVVV. Ž/žl ž"



/AVG/KEONNECT. PCOF * WWW. Ž/Ž Ž"



AVHODIFU-DH	Ž\$%& "ž"	!# " %%	fi	Ž/ & # / & #	fi	Ž/ & \$ / % \$
>OKGUOPF @ GU	&/\$& / " !	Ž%& Ž/ \$!	! Ž# &%	! Ž/ Ž/ ! #	fi	Š/ A# Ž/ Ž
9QTCN GOMF, GU	!! / & # ! #	Ž/ P& / & #	# # %	Ž/ Ž/ & #	fi	zz Ž/ & / % &
9ICWILKOPNCGUOPF <GXEGU	ž/ # / & # Ž	' A \$ / & # &	Ž/ & #	Ž/ & % " ! Ž	fi	Ž/ # % & / # &
/FGDNQWMSJ TOMJ . ZRCGU	fi	fi	fi	fi	fi	\$! Ž/ # Ž/ \$
<AG9DWMSJ TOMJ . ZRCGU	fi	fi	fi	fi	fi	! / & !
=TOGN	\$! Ž/ & #	' Ž/ Ž/ &	fi	! \$/ \$! #	fi	Ž/ & # & Ž ! &
6AGKUOPF <VWKGU	! / Ž/ \$! " !	Ž/ & Ž/ ! &%	fi	\$! Ž/ Ž/ % ! %	fi	\$& # A# Ž
, COOMKOKUPUF >VWKGU	ž/ Ž/ Ž/ ! Ž	Ž/ A " ! & Ž	fi	! / \$/ # & %	fi	Ž/ # ! Š/ A %
; GRUOPF 6 QPACOPCPEG	" / Ž/ % & Ž	Ž/ P& \$/ & Ž	fi	# \$/ & \$/ &	fi	ž/ & \$/ & Ž &
; GPONOPFF ' F tñURII ž & / \$ \$ \$ / " Ž ! fl ! &			F6OKI ž 3			\$ \$ \$ /

ORU	#\$/ žž	ŽA! \$\$/&Ž	Ž/ž/&!
OTOPV; GCPV;	fi	Ž#\$/#&	Ž#\$/#&
7G/2PGJL0GPV; GMP	" ž/ž%"	! ž/"#!" "	! ž/"%&žž
8WGT2EODG	fi	ŽA! &	ŽA! &
, JCP1 GIP ?CNGCH-RWVZAGGLV* TCGOCPV	fi	#& P&!	#& P&!
ODRUL2EODG/TOD 5662U/NOPEG9QMEGU	fi	ŽA! "	ŽA! "
* ŽG/6 CPO COGPV/CG2EODG	ž' "&%&	fi	ž' "&%&
; CGDUGCH-CPOT; GUHEVKPU	ŽA# ! /žš	ŽA# ! /žš	fi
=TOPUGL; JCP1 GIP- CPOT; GUHEVKPU	žž/ž! !	žž/ž! !	fi

<VEROVAL>7=

- KOMOKPUNO>7=	!V Ž / &	fi	!V Ž / &
<E CKTU IRUOPF * YCIFU	!\$\$\$%&	fi	!\$\$\$%&
OTOPV<VEROWD>7=	ŽAHz\$AHz&	fi	ŽAHz\$AHz&
+ODF - CUKPOAF OTOPVNU>PIKGUN	žl & ž	fi	žl & ž
<GMIEGJL ZRCPUBKHTQI TOOU	ŽA ŽAžž	fi	ŽA ŽAžž
ZAGPCN6 CPC1 COCPV/CGU	žlžž&ž	fi	žlžž&ž
SV/GT<VEROMVTOKEGF	Ž/!!	fi	Ž/!!
- KOMOKPUNO8V GT ŽUKWAKPU	Ž\$!!	fi	Ž\$!!

<DOCUDCF +CPGKU

, CPNIVOKPUCV/CPHROPEKON UGUU	fi	Ž/Ž	Ž/Ž
<REKN XGPNU	fi	ŽŽ/ &	ŽŽ/ &
6 CPD COGPV/CGU	ž"&/&ž	fi	ž"&/&ž
; CGWCF ODP CP 2XGJUOCPU	fi	"\$A \$#	"\$A \$#
>PIGAGCF ODP CP 2XGJUOCPU	fi	!AŽ' A \$&	!AŽ' A \$&
2XGJUOCPU/2EODG 5QW/7GVH RCEV. ZRCPUGU	%/ " "!	\$S%\$S	# Ž%#
8V GT 2EODG	Ž/Žž	fi	Ž/Žž
; CGWCF ODP ; CGWCFP	Ž\$/\$/ \$!	Ž\$/\$/ \$!	fi

9IC TCO . ZRCPUGU

ORNUOPF <EJ CTKUJRU	Ž\$' /' \$	fi	Ž\$' /' \$
<ERONRI <GMEGU			
6 CPD COGPVOPF ODPGN			
9IC&WCKPONCGU	#%/# &	fi	#%/# &
6 CGWCF . PIGAGCFOPV	ž!A #!	fi	ž!A #!
8V GT. ZRCPUGU	!# {	fi	!# {
+CF - CDV. ZRCPUGU	Ž/P&!	fi	Ž/P&!
AMFTOKRI . ZRCPUGU	ŽŽ'AS!	fi	ŽŽ'AS!

ž&" A " " ž&ž&%ž ! / %ž&\$

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/AVG/KEONBGT. PFGF * WWW. Ž/ž Ž"

910EGEFUOD , VMOGDU	8ŽA & A #888
910EGEFUOD =VIIKOPDF /CGU	#ŽA \$ #8#HŽ
910EGEFUOD ; GLOCEJ OTPAUDPF , OPVIEGU	ŽI I/ZI {A %#H
910EGEFUOD 50P 91Q TOOU	#Z #H# I #L\$
910EGEFUOD * VMOGDU	' !/\$#/\$\$'FIZ
910EGEFUOD 8V GR8GIOIPI ; GCPVLU	8&8#Z'FIZ
910CPVLU<VIRIGUHOTODIFUOPF <GXEGU	! Ž' #Z%!'I Ž#H#
910CPVLU ORI&CGU	%Ž/8 \$SŽ#IŽ#
910CPVLU#50P#U#TOMEGF	' #%&HIZ
910CPVLU#8V GR8GIOIPI . ZRCPLGU	Ž8Ž/ Ž'A \$#HŽ'

PIECE OF FUNK & DANCE	! ŽŽA ŽHZZŠD
PIECE OF FUNK	ŽŽA ŽŽA ' & H&
PIECE OF FUNK . PCO/OPAU	ŽŽA A ŽŽŽZ
PIECE OF FUNK =TOPUGUHOD SV/GT* I CPGU	% %%"I 18Ž
PIECE OF FUNK 53 KOMKG=TOPUGU	! #####\$@! ! Ž#
PIECE OF FUNK OTCPV, CEGIRU	Ž ŽA I #ZZŽHZ
PIECE OF FUNK SV GT/CPEOKONVROPERI * EVKIGU	Ž\$##\$/S/6H2
PIECE OF FUNK =TOPUGUHOD SV/GT* I CPGU	\$""HF!
PIECE OF FUNK SV GT/CPEOKONVROPERI >UGU	ŽŽ&A I ! H! I

PIECE OF FUNK <DICH ORKON UGW
PIECE OF FUNK <DICH RRCRTOOKPU
PIECE OF FUNK - COVNUZ U



\$7H+7C \$7H+8FJ K7A0H

- CHTGF QMRY UCHIGLO/NEGUTGOGIOM/COOKNGF KLLBQPV GTCWIFIRI CHFGD/OPF EGNDP COQPAUTGOF VOCU/EV
TGCGPVCNQKCP/RCPUPCP/OPF QJ/GTQJGORNQ OGPVDOPGHU 89 +af1

%<@: / JI<L HD<1; HD1@H1; AII; : ID%8 1; JC 2=

/CFOOD/CHWIFIRI/VGFHISCPGDWCP VGTGCGSVMKOPRKEGOF VGPVCECT[IRI COQPAWH/GCH FCOMUFCHTF
OPF TCRGOF CUFGETGF QMRY UCFGETGF IRHDY UHIGLO/NEGUTGOGF WRI VGUOKJVRPGOGJCF OGTVG
TGOORI MSH/GCH FCOVAVGMSCH/GPGY FOD/Y JIEGTTUOANG/IRVUG>AOGPVCH GCPWU. ZRCPLBQF
, JCP GJIP7Q/9QJCP CUCEDROPGPVCHPGKU/GZCPUGF

%<@: / JI<L HD<1; HD1@H1; AII; : ID"HHI 1; I\$B; d / 8@71ZD

@JCP CP QMRY/TGRCGPVCDMKCP **; 8a KUTGEI PKGF/VG<[UGO OMW/CDT GEGC EOTGURCPFIRI FGCTGF
QMRY UCHIGLO/NEGUTGOGF VRKNDGQJU/COGPVCHOP *; 8/VGFCHTF QMRY/UCLBQF YRI CP *; 8 KUTGEI PKGF OMW
COQPAWH/GEGTGUOPFIRI MSH/GCH FCOVAVGMSCH/GPGY FOD/Y JIEGTTUOANG/IRVUG>AOGPVCH GCPWU. ZRCPLBQF
TGEI PKGF OPF GZCPUGF OGTVGMSCH/GCH GCUJGFI

%<@: / JI<L HD<1; HD1@H1; AII; : IDQ CH2D

, GNDP EJCP GJIP VGEOMWKGPG/RCPUPCP MSH/G. CHM G=CGEJGT; GNGCPV<[UGO CH=CGU^ =, <@ RKP 'VG` =, <
90Pa CIGTRGOF CUFGETGF QMRY UCFGETGF IRHDY UCHIGLO/NEGUTGOGF VORCPUPCP/FGCPFIRI CP VGV[RGCH
EJCP GJIP VGV[RGCHTF QMRY UCHIGLO/NEGUTGOGF VORCPUPCP/FGCPFIRI CP VGV[RGCHTF QMRY UU
TGEI PKGF OPF GZCPUGF OGTVGMSCH/GCH GCUJGFI

- b <[UGO ECPVWIKCPVUWGSVPAQV GOCCU/COGPVCHGCH/GEOMWKGPG/RCPUPCP MSH/G. CIGTGEI PKGF CJ
CTGFVAKP/IP VGP/RCPUPCP MSH/G. IPV GJIP [GJIP]
- b =JG CHIEVCP VG<[UGO_U RICRONPOAG UCG CHV G VQANRCPUPCP MSH/G. CHEJCP GJU CHCEPODIE OPF
FOCI TORIE CJW/RCRCPVCHGJU GTIRRNUV OMRECGLGV G VQANRCPUPCP MSH/G. KUCOINKF CUCEDROPGPVCHGCP
CHRCPUPCP GZCPUGWRI VGUOKJVRPGOGJCF OGTVGZGRCGF OGID GTGOORI LGXEGNGUCHENGOPF IRCEWGGORNQ[GJIP]
- b =JG CHIEVCP VG<[UGO_U RICRONPOAG CHM GEOMWKGPG/RCPUPCP MSH/G. CHM G FHIISCPGDWCP GZCPUGF OPF
CEWKGZGRCGFEGV VQANRCPUPCP MSH/G. KUCOINKF CUCEDROPGPVCHGCP GZCPUGWRI VGUOKJVRPGOGJCF OGTVGZGRCGF OGID GTGOORI LGXEGNGUCHENGOPF IRCEWGGORNQ[GJIP]
- b =JG CHIEVCP VG<[UGO_U RICRONPOAG CHM GEOMWKGPG/RCPUPCP MSH/G. CIG COOKNGF CUCEDROPGPVCH
RCPUPCP GZCPUGWRI VGUOKJVRPGOGJCF OGTVGZGRCGF OGID GTGOORI LGXEGNGUCHENGOPF IRCEWGGORNQ[GJIP]
- b <[UGO ECPVWIKCPVFWRI VG OCCL/COGPV/RGKF VO/CIG I TGOAT VCP KU RICRONPOAG UCG CHV
ECPVWIKCPVCGCOOKNGF CUCEDROPGPVCHGCP GZCPUGWRI VGUOKJVRPGOGJCF OGTVGZGRCGF OGID GTGOORI
LGXEGNGUCHENGOPF IRCEWGGORNQ[GJIP]
- b =JG CHIEVCP VG<[UGO_U RICRONPOAG UCG CHM GEOMWKGPG/RCPUPCP MSH/G. CHM G FHIISCPGDWCP GZCPUGF
CEWKGZGRCGF OPF CEWKGZGRCGF UCP IPXQJOCPUKU COOKNGF CUCEDROPGPVCHGCP GZCPUGWRI VGUOKJVI
MPOGJCF OGTCRGKCF CHHIG[GJIP]

%<@: / JI<L HD<1; HD1@H1; AII; : ID/ Q#

, GNDP EJCP GJIP VGP/G/89 + MSH/G. ORK[GJIP; GNGCPV<[UGO CH=CGU^ . <@ RKP 'VG` . <90Pa CIG
TRGOF CUFGETGF QMRY UCFGETGF IRHDY UCHIGLO/NEGUTGOGF VQ89 +/FGCPFIRI CP VGV[RGCH/EJCP GJIP
VGV[RGCHTF QMRY UCHIGLO/NEGUTGOGF VQ89 +/OPF VGTGURCPFIRI VCOLOCPUIGFKENMF DQDyf1

- b <[UGO ECPVWIKCPVUWGSVPAQV GOCCU/COGPVCHGCH/GPG/89 + MSH/G. CIGTGEI PKGF CJ
CTGFVAKP/IP VGP/G/89 + MSH/G. IPV GJIP [GJIP]
- b =JG CHIEVCP VG<[UGO_U RICRONPOAG UCG CHM VQANRCPUPCP MSH/G. CHEJCP GJU CHCEPODIE OPF
FOCI TORIE CJW/RCRCPVCHGJU GTIRRNUV OMRECGLGV G VQANRCPUPCP MSH/G. KUCOINKF CUCEDROPGPVCHB9 + GZCPUG
WRI VGUOKJVRPGOGJCF OGTVGZGRCGF OGID GTGOORI LGXEGNGUCHENGOPF IRCEWGGORNQ[GJIP]
- b =JG CHIEVCP VG<[UGO_U RICRONPOAG CHM GEOMWKGPG/89 + MSH/G. CIG COOKNGF CUCEDROPGPVCHB9 +
GZCPUGWRI VGUOKJVRPGOGJCF OGTVGZGRCGF OGID GTGOORI LGXEGNGUCHENGOPF IRCEWGGORNQ[GJIP]
- b <[UGO ECPVWIKCPVFWRI VG OCCL/COGPV/RGKF VO/CIG I TGOAT VCP KU RICRONPOAG UCG CHV
ECPVWIKCPVCGCOOKNGF CUCEDROPGPVCHB9 + GZCPUGWRI VGUOKJVRPGOGJCF OGTVGZGRCGF OGID GTGOORI
LGXEGNGUCHENGOPF IRCEWGGORNQ[GJIP]

b =JGGHHEVCP V G<U100_U RICRORWCPAGU CIGCHM GPG/89 + MDMW CHM GFIHICPEGDQW/CGP GRCMVF CPF
CEWANBOPRI UCP IPXGJIOGPALIUCOINKF CUCEDORCPGPVCH9 + GROPUWRI VGUADU VMPGOGLF QGT
CRGIKF CHHKG[CCFI]

5C0MKGU TG0G VQ CEEQAUU CPF QJ GT RQ COOKS VACCPGF TGCPW/ TGCPVG DOPFU RQ COOKS ENIQU CPF LMN OGPW
GOMKQGJL EODRPLUDG KOGY KOGC COOKPS UNLUETRKP COOKPS HMFU JGW KOT QJ GUS CLEA/ TGRGCPV
COOKPSYPG/RGPUPP MDMW/CPF PG/89 + MDMW/fi

"991AH7C /I> COMVSAH

* EECMVAUCPF QJ GT RQ COOKPSYJGPGVWGM DMW/ KOT V G XOM&CHAUWUUTLGKEGUTGEOKF O/WG<1000GPVCH7G/
9QWCPFAGKOTYJIEJ RQ OGPWURCPFIRI fi

4C 7G : 1; K C;

>PCCIPGF TGCPVHICRIGLPAUCLUGUTGEOKF IP CXCPFGHOP GZEJ CPI GVWRI RKEGIP CP GZEJ CPI GVCPUEVKP CTUAW
TGEGKF RICRVOGKHMW TGSMVCOGAUQJGV CP VOGTGSMVCOGAU DGRI OGMPCPGZJ CPI GVCPUEVKP PCCIPGF
TGCPVHIRENUGJ Z' \$# OHMOP CHW/CP TGCPVHICRIGLPAUCLUGUTGEOKF VQV GLBOGJIGUN QJ OGPWUDOP EODRISGF CUCH VWW! Z'
Z' Z' FHMOP TGCPVHICRIGLPAUCLUGUTGEOKF DOLSF CP VGPVODGTCHEKUFCUUCRGIECPV GCHQDNELUFQ UNOMWVWVWVUG
HKDN[CCFI]

1; K C; #DC HOMVSA

; GCPVGDOPFURQ COOKPSYJGPGVWGM OVRCTXOMWFI+CPF FKEQMAUCPF RICRVOGKHM GDOFP
WRI VGGHEVWVGPAGGJVOGJCF; GCPVGDOPFURQ COOKPSYJGPGVWGM LERCTOGLI CUGWGD E Q T C G P E

"**XXL 1:1 GB; D / 84-71 DC**"

P; 8 KUC KG CII CPHOECODG MDDWY CII CII CII YKU VIG TGUOCGPV/CII CII VCI IDG ECKKNCIUSI*P*; 8 OWW/DG
TBCI PKGF YJGP VIGMDWY KUREWIGF CII TCCUPDII GIIOCDFLII EIVPGEGCHCII MDDWY KUOCPLSII D[VGCBEVPGEG
CHDW CII GAGPONDWY KIIA GGPVOPF CII PAGPONDWY KIIA GGPV/GUWII HCO POCOGRGOKPSI

1988, 78AN

=JGHFVCI[PGVRQKOP CHM G= < 9KIP J CUDGP FGFGOIRGF WRI VGHDIY CHGEPODIE TGUOLEGUOGGU[COGPV[KEW
CPF H[M[D[E[M[D[U[C[H[G[E[O[A[I[R[F[C[T[R[V[Q[B[U[C[H[D[G[U[I[R[V[G[P[G[R[P[U[C[P[M[D[I[F[G[H[E[T[G[F[C[P[F[G[H[E[T[F[I[R[H[D[U[C[H[G[L[O[E[G[U[T[G[O[C[K[P[R[C[P[U[C[P[R[G[R[P[U[G[Y[I[R[H[O[D[O[C[O[M[V[G[H[E[V[C[I[PGVRQKOP CHM G
= < 9KIP CPF CFFKICPUNQZFGFVAKCPHOD VG= < 9KIP_UHEVCI[PGVRQKOP J OGDGP FGFGOIRGF CP VGLUGOGDNU
QUNQI[CIGTERQNGF D[= < F1CPGHIURQ[OGPV[KRENVERI TGHMFUCHCOKRQ[GGECPV[M[O[KPV[CIGTEQI PKGF YJ GP FV[CPF
RQ[CCGTIP CECATFPEG YKU V[G VGLUGHM GRMPTI ZKGJUOGPAUCIGTRQNGF O[K[X[X[V[I[C[T[X[X[K[U[C[O[C[M[D[G[F[
OGGU[COGPV[PQ[CP[GP[K[F[R[C[H[E[O[C[U[V[COGPV[< V[W[K[G[U[C[P[G[O[T[O[G[C[H[G[K[D[Y[I[R[
X[X[V[I[C[P[V[G[E[P[S[K[U[P[C[F[G[T[]

1 / OR# 782N

=JGHFVRCI PGVRQKIP QHMG. ; < RKP J CUDGP FG/GOIRGF WRI VGHW CHGEPODIE TGLOMEGUOGGU/NGCPVKEW
OPF H/LLCE MNDLQUCHCERQ/WRI f:CPGHV/RQ[OGPA/IRENRI TGHFUCHKORQ[CGEOPVWDLKPU CIGTCED PKGF YJ GP
FV&OPF RQ[CGDGP CEEOFCPGYKU VGDGPCHAGLUSI 2XGJOCPAUCHV G8VGT. ORQ[GG+CPGHV=TWI/VIF CIGTCEDGF
O/IRAT XCMFH-JG KAT XCMG CHIPXGJOCPAUKUDOLF CP RMMUF OCTMV/RKQJOPF SWAOKPUDOD OQCT IPXGJOCPA
DIOCKUO/CXHDKGEV/CPVGZJ CPJ GTOGUSI 1Q/GGP/EORQJAGDOPFLIP I CGGDNCTGXCNF DOLUF CP E/CPVJ OCXHDK
TGHFUCH-EDRQJCGDUGEV INGLUT KLUKUYKU UOMHTEGFV/IRAI US

- GIGTGK IRHGYUCHGLOUGTGGVQVGGCGWGFICRUPCTGWIFIRI CHFCGVCPFEGVCP COOAUUTGGVQKQGVRGPUPU89+CPF9991.
RNGCOPMTCU

$\% \leq 6\%$: C_1 HD ≤ 1 ; HD $\geq H_1$; A_1 ; ID $\leq B_1$; $dC \leq$

%<6: 10 HD1-HG1-A-1 ID: 7H

=JG<UGO TCEQ PKGUFCFGTGF IRHDY CHIGU/REGU/KT KU/LT KU/G/CSV/ALQV GROLG TCEXODIGURKNDGUV/CGPV
RNU/OLGRQ OGPU/TECGKGF HOD V GNLW/EG/CDTG/OGKULGEODOGP/CWV O/CGAGQH/WGRGK/FU/-JGF/GTGF
IRHDY KU/LYCOQFNU/TEVIE OGTV/GM/GV/FGTG/BOPFIA YJM V GTGFO PKKP/CHNG/GT/GPMU

ANSWER

b =JG GHEEV CP VG <UQD_U RICRCKPOAG U CIG CHV G VADNRGPUP MDWV CHECPJ GU CHGEOPDIE CPF
FOOD TORIE CWVORICPUPCHV GTHRAUN CUFGETCAGVG VADNRGPUP MDWV KUCOOGNGF CUECDRGPV
CHREKCPGRCB GWE MG : GCEMULU U CH HCP V L G G Z

%<@: *CALL HD<1; HD/G/H1; AI; : ID/Q#
, GRP EJ CPI GJIP V GPO/89 + MODM[CH/V G. ; <90P CIGTGFQVGF CUFGEHTGF QMHDY UCHIGDNEGTGQF VQ89. + AT
CUFGEHTGF IRHDY UCHIGDNEGTGQF VQ89. + FCGFFIRI CP V G V RG CHEJ CPI CTI-J G V RG UCHFGEHTGF IRHDY UCH
TGQDNEGTGQF VQ89. + CPI V CIGTGFQVGF GEGO/PAIRI VCGO/CPUGTGFKEMGF D30Yf1
b = JGGHEEVCP V G <[UGO_URTRKAVPAGU CIGCHM G1Q/AB9 + MODM[CHEJ CPI CUCHEGPQDIE CPI FCGQI TQRIE
CULWRIKOPUDHJ GTRWLM O/FCETGUGV G1Q/AB9 + MODM[KUCOONKGF CUCEDDRGPVCHB9 + GRCPUG
WRI V GUDKU VMPGOQ/CF QGTV GGZGEVGF OGQI GTODRPI LGMEGNGKUCHENKGPF IRCEVKGORN[CGSf1
b = JGGHEEVCP V G <[UGO_URTRKAVPAGU CIGCHM G1Q/AB9 + MODM[CHFHEGPQDQV CEP CIGEVEF CPI
CEWAGRGKPEGV O/FCETGUGV G1Q/AB9 + MODM[KUCOONKGF CUCEDDRGPVCHB9 + GRCPUG WRI V G
WCKU VMPGOQ/CF QGTV GGZGEVGF OGQI GTODRPI LGMEGNGKUCHENKGPF IRCEVKGORN[CGSf1
b - CECOLQJIP V G <[UGO_URTRKAVPAGU CIGCHM G1Q/AB9 + MODM[CIGCOONKGF CUCEDDRGPVCHB9 + GRCPUG
WRI V GUDKU VMPGOQ/CF QGTV GGZGEVGF OGQI GTODRPI LGMEGNGKUCHENKGPF IRCEVKGORN[CGSf1
b <[UGO_EOMDIAKPU FVWRI V G OCQ/ICOPV RGIKF V O/CTG KLU V CP KU RICRANKPOG U CIG CHVQD
EOMDIAKPU CCGKMF CUCEDDRGPVCHB9 + GRCPUG WRI V GUDKU VMPGOQ/CF QGTV GGZGEVGF
OGQI GTODRPI LGMEGNGKUCHENKGPF IRCEVKGORN[CGSf1

%<@: *CALL HD<1; HD/G/H1; AI; : ID000
= JG <[UGO_GJQDNU GUCFGEHTGF IRHDY CHIGDNEGTGQF VQ999 VCPUEVKPUCVM GUW CHM GCOQ/IVCHM GIRON
OCQ/ICOPVCHM GTEGKOKGKOTIPIQDGPVRQDQPI/ RVW/999 RQDQPAUTGEGKGF HOD V GORGQDQ/ATD30YVUG
EODOPEGOCPV CH/V G 999 VGO/ RVW/ V G COQ/IVCHM GTEGKOKGKOTIPIQDGPVRQDQPI/ 999 CH/V
IORTQDQPAUNQV GMFGM[999 QLQ/CPF TEGKOKGKOTIPIQDGPVRQDQPI/ 999 QLQ/CPF

7Q/9QJNKP TQW/GJLQPGM/PXQJIOGPVIR ECRKNDQI/7Q/9QJNKP PG/RQJNKP/CPF VPGJNKP/CPF PG/RQJNKP/CPF

. ; I 'OK; HIB; D TS\$7E77A'HHIH

7G/1PXQJIOGPVIR ECRKNDQI/7Q/9QJNKP PG/RQJNKP/CPF TQJ VDQ WG CIGW PG/CHGEVWV/CPF FCGFQDQF AT
COQ/IVCHM GTEGKOKGKOTIPIQDGPVRQDQPI/ RVW/999 RQDQPAUTGEGKGF D[QLQ/CPF DQKPEGU KOT DOPFV PAGU CPI CIG FGD/V O/CTG
QDQ/IVCHM VQV GESV/IVCPY ECRKNDQI/7Q/9QJNKP ATD30YVUG

1; HGP; . ; I ODHZC

; GUW/CPF PG/RQJNKP RIIQCPY ECRKNDQI/7Q/9QJNKP PG/RQJNKP/CPF KUJ/CEVQDQGQDQPI/ KORQDF D[EGFKQUS
I TQDQ/IVCPF ECRKNDQI/7Q/9QJNKP D[KQY V TQDQ/ ECRKNDQI/7Q/9QJNKP PG/RQJNKP/CPF KUJ/CEVQDQGQDQPI/

; GUW/CPF PG/RQJNKP/CPF PG/RQJNKP/CPF KUJ/CEVQDQGQDQPI/ KORQDF UJRM/DRKPUN O/IGSM/GV GCOQ/IVCHM GDIQDQDQGQDQGQDQPI/ IP/PGIGRGM[D[V G <[UGO_FVW/ QLQ/UREVWV/GV G <[UGO_URGQDQGPVGPFCY/ OGPVADPFI

; GCPVJUOPF GZCPLBUTGAGVDCRGQIPI TGCPVJUOPF GZCPLBUTGAGVDCRGQIPI TGCPVJUOPF GZCPLBUTGAGVDCRGQIPI

/E: GIC=1; KC; H7C &V; CH

SRGTOIIR TCGPAVUENEGCEVNGUJN CUPGAVUWCPAIIOP CPF KGU/PVRIQWUICPONRUGKJ CLRKONBIRPKNGKJEGU
PG/LOKUOPF LGNGEUDI OMNIIC GPIGRIGKJSOPF OOLMFGIOMUAGOPF NEON TOPAUOPF EOPVCEUSIBRGTOIIR GRGPBLJ
IRENVEGEOLUCH CEFULCH/LODINGUOPF YC GU/RQ/TOMIGOF EQLJ/RICHBLCPONRUGKJOPF LGNGEUDI KFGJONOPF UAGRQUSI
VTOJIS GRGPBLJVOGMOOLGKJOPF UMRIG/ECDOWMEOKPUOPF VMIIG/TCRRIUOPF OOPALGPOEGYTCRQWOPF KQOLJS
RIPAVI OPF TCRIOFMKOP FORIGEOKOP CPF COOKAKOP LEJ COKU KRUOPF KBDLJ U RJS CPF QLG/TGRCOGPVODKOKPFI
SRGTOIIR GRGPBLJQUDIRENVEGUJNGRGPBLJTCRQWV YQLEJ COKU KRU GZORIKOP CPF GRGPBLJURDE YKU VG1KJGT
. FVBOJOP . OGII OPEI ; CICHA/WF ^1...;/af12P OFFRKOP CNEJ CPI GU/VQ IREW/MF DAWPO/TCRQWV MDRHKGUJTCRQWV
IRU/WPEGRIQ TCLOUIGTGHNEGF CUCRGTOIIR GRGPBLJ

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1< JCUJ TCGCPVYKU VRF RCVGJWQ/RDQFGLT T3ODVLCGPWQ1< Q/CQPAUFIHGPVHO KUGJQWGF
TQGJF, CPVCEWQNCFLMIOCPAU VRFGT VRF RCV T3ODVLCGPVRQ TQOU TGRIGLGPV VG FIIHGPQEG DQWGP 1< U
GJQWGF TQGJF LGKRGJOF VG COQPAU T3ODVLCGPV DT VRF RC %%%

O* <+ <1000GPV7CFŽ Ž/ \$DBE, CHI; : "B, C9H AMPU TECI PRKP CPF OCJUWCOGPV I VIECPG KOT OMVYRGU OH
EDDRPLQGF OOLPREGUMF GTCVMBGF OCFGNPF GNDIPOQEGVOP RTGKOMI TGSVIGF FKBNLUTGJF J KUJOOGPVW HNG
KORODCPAGF IPHKEON[GCTŽ Ž#f]

O* <+ <1000GPV7CFŽ Ž/ \$ 67C 1%#%P9H GJTGSMVUCI OGPOCPVNCPK YOQWVUTGCVCPF FKBLGYJCP CP
GCPVCLIOOF YKU ECPEPATOJCP CTCPWVDPVEONGUW GCDWY CHIKWY KU CUMUWPKNORCEVROQPVW TGUWRI
IP TGCPVGF CEDVHGI OGPOCPVNCPK KUQD TGSVIGF IP RUFKBLWGLQAGVGCEVKPUWMP YOORKAGVGJOM
RKAQVNGKUWPEGCHJ GHCPBKNUACGPVWORCEVFFJ KUJOOGPVW HNGIORODCPAGF IPHKEON[GCTŽ Ž#f]

O* <+ <1000GPV7CFŽ !/

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* WOOD[CHEJCP GJIP KOLF CPF UMLERKOP ECKKOKLQKOTVGHKON[CCTGPFGF *WWW! Žžłż" KURIGŁPAGF
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, WUICFICNEIGFRVTKMOTFCRQKUWUGTOMJCVIPVGGCPVCHJGKUWGHCHFCRQKUQJ, HROPECKNURKWDP/VGDGP
YHNPQ/DGCGKQTCGEGTFCRQKUQJYHNPQ/DGCGKQTCGEGTFCRQKUQJ, CEGVNGVQ/CIGIPVGRCQKUQJ, CHOP
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GEGCFVGOCZIOVO, IRUJGF, MOKWAFGTFCRQKUQJ, CPEGRTQEGFD, VG/GFGCQV, CQKUZU/OPEG, CIRQKDP/VG
`-2a/UICD/CDNFCRQKUQJ, GCGKQTCGEGTFCRQKUQJ, YKU1QGIPGPVUGENNGJF, UCHVMMW! Žžž"/VG<UICD_JCF PQ.DOPM
DOKPEGUQVY/GIGGGRQKUQJ, VDNCFICNEIGFRVTKM

JG<UGO_UORGIAI HMFUOOPD GOOPVOCIGMKG IVO TQGP ORRORTIOG NSMVKY VQ OGGF/FGD₁ ORGOIAI FCOOPFU
YJ HMGUGNPI JIKJGT[GCPCEPJ TGJGXJM TOMI CP ORRORTIOGPI FGKUGKCF NPI FGIO IPXGJIOGPVRATKMOH JG<UGO
IPXGJIOGPVHDFUMFGT KUEPAQNTGJ GPH OOPD CF D₁ VG<UGO VRFGT=GZUJ. FVDOJOP , CFG<GENCP #ZMH ! ZE
YIEJ OMWORGUVG<UGO_U+OOF CH; GCPAU UMGAEVQ RICBGFVIGUJOPF TGJMKUPU/GJUDNU GJ/VQIPXGU<UGO
HMFUOPD NPF CHIPXGJIOGPVOPF IP COQPAUVEOPUEGUCRRORTIOG RTONEGF VQ/RVCFJ GJUNQV GRMGPVRGLOP
UOPFCIF FGLETIOGF IP VG=GZUJ, CPUNAKOP * TNG? 22<GENCP ZJDHJ KUJOPCFI RTONEGUJ OMW G<UGO_U+OOF CH
; GCPAU POCMIP IPXGJIOGPWQD CESVIG/GEZCP GUGMUGMKG/OOPD GATQGPVUTOM RICBGFVIGUJOPF UMGAEV
VQ TGJMKUPU/VGJUDNU GJ OPF IP COQPAUVEOPUEGUCRRORTIOG CP. NPF CHIPXGJIOGPV/VQ/RMGPVIPXGUJOU
GZEGKPI TGGLOPDKG ECTY UNWICP EOKOP YQH CESVIG AT TQGP IP MUV CHVG RMRCQES VGIUS FKJOMAKP
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QJGJU CHVG HMF TOJGT VCP C URE HMFU UMGAEVQ +OOF CH; GCPAU ECPOAM <UGO
CPFOY OCPVHMFUOPF 1< OCFIEORIOGJLCPONIDM₁ LGMHUWOPEGRCP HMFUJU QNDGPACJCF RMLKUPLAQCRMGPV
RGLOP UOPFCIFFI. CEJ IRUNAKP CHVG <UGO CFORUOP GPFOY OCPVIPXGJIOGPV RQH[fi=JG RQH[OMWORGUVG
KMDHPI VRGU CHIPXGJIOGPV>FVDOONGPOGPVODKAKP>FVDOONGPOGPV*1 GPH ODKAKPUS QJ GT I ONGPOGPV
ODKAKPUS EOROAG ODKAKPUS EOROAG QJGMDENF CPF OCIV A GDEMF LEMVIGS/ GSIV/ IPAGPOKPCN
ODKAKPUS IPAGPOKPCNGSIV/ EGMRBQGJUFGROKJ DOPNATLUECERCP/PEGJ OCPGQ OCIV/MOWKHNHFU OWKHNHFU
TGMEJ CLGD TCGGPUS RIKAGGSIV/ JGF GHWIFU; CON UOAG 2XGJIOGPV=TMUJ. . 21b/FGKJOKGJ/CPGJ [CPF TCG
GJQAFI

* UCH* MMW! Ž Ž Ž VG <UOO_UIPXGJOGPAU CIG RIGLGPAGF DOKYfI2ENAGF IP VIU COQPAVU · Ž%/%! #V'Z88Z
EQUJLGF CLEOJ GSVMKOPAUSI

* VVVVVV. Ž/ž/ž/ž"

>FLFDQGPOGPV>FLFDQGPOGPV <GEVINGU
>FLFDQGPOGPV I CPET SDWOKPU
, CIRIOOGSDWOKPU
. SWVZ
2AGIPOKPOV SWVZ
; GRMJEJ CLG* BEQVPAU
1GF1 G/WIFU
- ODOJIE 6 WKAIVIFU
2AGIPOKPOV6 WKAIVIFU
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* NGPOKQG2PGJQGPV
6 KEGNIPCOV

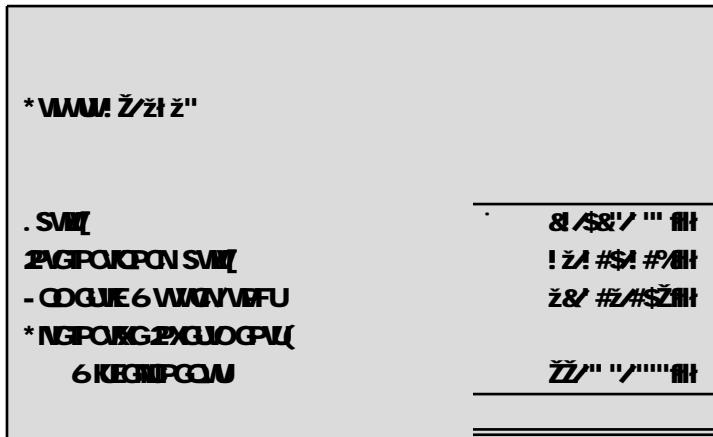
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, TGFVVKMUNJGTRWVAOPKUWATBEO/PAGRWVY VQCPIRXGJOCPVYHNPQVWVWKRUDWKAOPSHJJKUOGGNGF D[VG

EOROTAG COKKOKPUJCGP OGD GOAWWY CHORRIZOAGP HOW[COUSIN]KGF IREODG IPXGUOCWUJGF YQW DG

=JG>7= /QMFQKP 90011P~~X~~QDPIAGPOVAGF D[<OPCIF " 90011P UCH! WWW! Ž/žt ž"/VG>7= /QMFQKP

* UCH⁺ VMMW! Ž/ž/ ž"/VODNIPXGJUOCPAUIG D[VG>7=1<, /QMFOKP⁺REBMRP⁺ VG<[UGO RONOPCH ŽŽP/8&4%!!//
EOPUDGF CHM GJOMDYIRI IPXGJUOCPAURGJU



=JG>7=1<, /QMFOKP 900NIPXGJUOCPAUIG PO/TO/GF D[<OPFCIF " 900TUF! UCH⁺ VMMW! Ž/ž/ ž"/ VG>7=1<, /QMFOKP 900NIE PO/JCH CP[FRCE/IPXGJUOCPAUIG CP[CPG KUWT CHEOROOG AT OWMRNDOPUV O/Y GIG HNG RGECPVTCOAGCH/GOCH/NCN&CH/G>7=1<, /QMFOKP 900NIPXGJUOCPAUIG JG>7=1<, /QMFOKP 900NIE PO/ JOGIPXGJUOCPAUIG FVOEMLFCNECFV/KWJHJG>7=1<, /QMFOKP 900NIPXGJUOCPAUIG EOMAPGRU/LOGIKM HZGF IREODG OCPG OCNA/CPF DDFP OWKANHDFU] JOG C YGLVGF OGIG G OAWK, CHNWVCP CPG [CCT CPF CRRDZOOGI GJU V[GAT/TGRCWKGJU]

* UCH⁺ VMMW! Ž/ž/ ž"/ VG<[UGO_UIPXGJUOCPAUIG VG>7=1<, /QMFOKP 900NEPUDGF CHM GJOMDYIRI IPXGJUOCPA
VRGJU

. SVM⁺ EOPUDGF-FRCEVQ/PGU IR CHGSVM⁺ UCEVINGUJIP RMWTFI CG EOPUDGF SVM⁺ UCEVINGUJIGV/RICM⁺ OCPA GF
D[CP GAGPONIPXGJUOCPAUIGKOTI

2AGPOKPCONGSM⁺ EOPUDGF-FRCEVQ/PGU IR CHIPAGPOKPCONGSM⁺ UCEVINGUJIP RMWTFI CG EOPUDGF SVM⁺
UCEVINGUJIGV/RICM⁺ OCPA GF D[CP GAGPONIPXGJUOCPAUIGKOTI

- COGJUE OWKANHDFU CG OWKANHDFU VO/ D[ROEJ/ IPXGJU/ RICM⁺ IP>fKIGSM⁺ UCEVINGU CHRMWTFI CG
EOPUDGF

* NGPOKG IPXGJUOCPAUIG EOPUDGF CHJ G HBFU TCGNQJOG/CPF QJ/GT RODIF HBFU VO/CORW⁺ XCMWIPXGJUOCPA
UTOG IGJU O/CRG V/RICM⁺ KUWECTGKGF VOV GRM⁺ VCFGF IPXGJUOCPVOCNA/12XGJUOCPAUOG DGJ GJU V/TOM C
EODDROOKP CHMVPAGGJUWIP NOKF RONPGU IRU RMWTFI VCFGF CRPDPF OWKANHDF XG JERW/ATVWVQ/PGU IR IP
QJ/GTEODOIPI RIF RODIF HBFU

=JG<[UGO_UIPXGJUOCPAUIG TGOIFG O/WKXNGUCH⁺ VMMW! Ž/ž/ ž"/OPF JOGDGP EOG CIRGF DOLG VROP CHKT
XCMWIPXGJUOCPAUIG [IP CEEOFCPFGY KU O* <+ <0/0GCPV/7CPV/"/ 7/657/4; - ; 7HGB; D[7C "EEAB/1ZDFD" <+ <0/0GCPV/7CP
% FGHRGU KRT XCMWIPXGJUOCPAUIG V/G RIEG VO/VYQME DG TEGKCF VO LUNIP CUEV/AT RDE VO VCPUGT C MOKW⁺ IP CP CIRGF
VCPUGT DQY/CP OCNA/RCVERCPAUOG GOGJUOCPVFO/GF JG<[UGO EOG CIRGU KRT XCMWIPXGJUOCPAU
YKJIP V/G KRT XCMWIPXGJUOCPAUIG [GUJUOCPAUIG D[O* <+ <0/0GCPV/7CPV/1HJGJGJUOCPAUIG [KUDLGF CP V/G XCMWIPXGJUOCPAU
VZOGJUOCPAUIG KRT XCMWIPXGJUOCPAUIG [KUDLGF CP V/G XCMWIPXGJUOCPAUIG [KUDLGF CP V/G XCMWIPXGJUOCPAU
KRT XCMWIPXGJUOCPAUIG [KUDLGF CP V/G XCMWIPXGJUOCPAUIG

=J GLOVIRI FGLEOGUN GJIGCEJ [CHRMUMF VOGGUIGRDXN BGPCTEVMIRI DOU(

5GCV : VDGF RIKGU'VPCFLWGF KOTIEPAKONCUA WATMOKINGUP CENKGOCINAU
VAVCI OGPOGPVEOP CEEGUOU GOOGUICOGPVAG
5GCN : 2RMUOJ GTV CP SWAGF RIKGUREVGF YKU IP 5GCN VAVCIGOLEXDG
KOTOP CLEAVATKOMM/GK/GTRIGEVN SWAGF OCTMURIEGUJUONKETCUGU
CIMOKNGU CNEFRIGEVN TECODATOIF HOD OLGIXCNGOCINMPCDOAKP
5GCN

=JG>7= /QMFOPP 900NCLV G1000V1 TCEMIRI KOT XONG OGLW COGPNUCCH* WWW! Žžž"/ YJIEJ KENEGU
'' 1%&\$ 2\$ CHVG{U00_UZAGPDU OCPA OF IPXGUOGPA'



@KJIP V GROD W HROBEONLQJLQJXO MF WRI 5GONŽ IPRWUICGDOLF CP WDFCLWIGF SWMF OCINWRIEGY KJIP CEMG
OCINWRIEGY ORXWUICGDOLF CP WDFCLWIGF SWMF OCINWRIEGY KJIP CEMG
1CFI G/VIFUOPF ; . 2U01GFQ/GIOIRGF D[V RFFRQV XCNWAKPFI

SVGT , COOIRI KIF /MFU ECPKJU CHWDFU IPXGUJF YKJ =GJU 5 <fl=JGLG ECOOIRI KIF HIFU YGG GJADLU CF IP
ECPHOKY YKJ VG=GZUOOGPOGPV, CFG/2AGKEDN CERGOKP * EV, JCRGT%Ž/OPF VG=GZUOOGPOGPV, CFG
9MNE/MIFU 2XGUJOPV* EV, JCRGT%Ž/#\$fJQ CIG UVMWIGF LODGYJOVWIGF OCPQ OCINWRIEGY VIFUOPF CEMY
U CIG CEGUN GCDWIGF VOFGRWUICGDOLF YKJ FTY HIFUOPCFCQJ DOLFIPCPFRICP YAGGUJTOA CIG CUDFLWIGF OPCFCQJ
DOLFIPCP VGHMIFULUGMIOODPAP CECPUOPVPG/CHWDFU CH ŽH/ CHWDFU CH WIFUOPP/DGHMII I WIFUOPPfHJG
QUGO TGRWUICGDOLF YKJ =GJU 5 <CH ! %##\$/Ž ' Ž" C/OCINWIGF ECQIP CECQIPPEGY KJIP O* < <LOBOGPV
7CFP/

=JG>PRKGUR^Y CH/CH =GZU+ODF CH G GPWRRIOGF TGLDNWOPUDRIR V GRIPERONCOQ/WCH^Y , ODOGEON
90RT7AQUVAO/OQ DGOMWOPFRI OV/CP[CPG VOGVQ *%#I I I I I I I fKOMDNY V G KLMPEGCH^Y , ODOGEON
90RT7AQUOQ PQ/GZEGF/ IP A I TG QG V G RTRBRONCOQ/WCH *%#I I I I I I I OV/CP[CPG VOGFI8WADOPFRI
EDOGEBNRORGTRICBQFUOQ DGWF KOTV GRVIRLGCHROPERI RIAGEVEQJUCHGMHGRIGEWOPF VOTGHROPEG
TGPY/ AT TGHWF EDOGEKNRORGTPAQUS RIOT CPEVODGIF ODKOKPS CPF ROKY ODKOKPS IRVIRARI IPAGIYI
, ODOGEKNRORGTPAQUSOQ PQ/DGKWA F VOTGHROPEG OT TGHWF RIOT CPEVODGIF ODKOKPSUT ROKY DOPFUYKJQV
VGRRIOONCH/G<UZO +ODF CH G GPW^Y ODOGEKNRORGTCENK^Y KOTV G<UZO KOTV GHKCN[GCTCPFCF * VMMW! Ž/
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EJ GKHLEI RI EJ CPI GUEEWIGF KP KPI FGIO MDDWGLFVRI V GKHLEI COTCPFCF * VVAAE ZZI ZZI C

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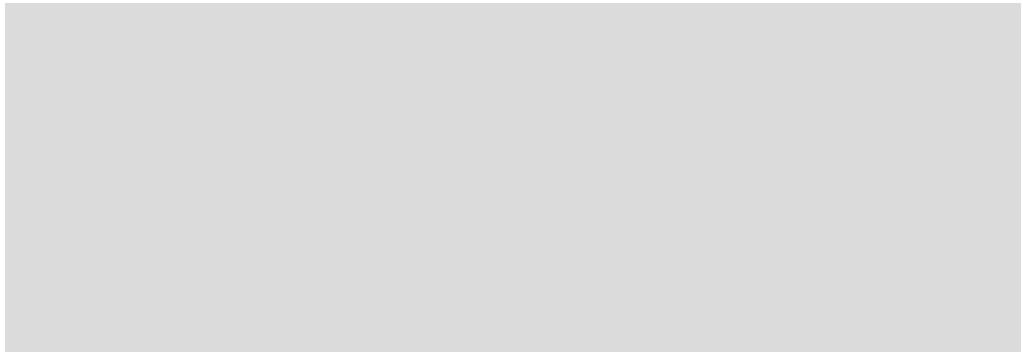
ANSWER

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Framework

**<EJ GFVNF RIIRERONOFF IPAGGLVRQDQPAUHOTFRGEVRKRGCOGPVIGGPVGDOPIUKLKFOPF QANQOFIRI CUDH* VMMW! Ž
žl ž" CIGCUKOMDUU**



V VWWA Ž/ž Ž"/VG<UGO JCF TGCPWGDOPFUURERONADOPFIRI CH \$ Ž\$SH A H H H f/ <FGDMULGEVGF D[OPFRQ COGHD RQFI GF TGCPWLUCLUFCHRGF IP VG6 CLJGT; GLONKP GJOMUJIAI VG; /<FGKFI GF TGCPWLUCEPJK/CHN
KCYHML OCHDNG TGCPWJS HMFU OPF DOKPEGS YKU EGIVIP GEGRKOPU RQFI GF VQ UEGVIG TGCPWLMRONGF
IRFDAGFPGLUKWKF VAFGTG6 CLJGT; GLONKP CULEVKW D[VG<VQGFOCPGCRNPHDOKP T30LGF VOTGCPWGDOPFU
ONADOPFIRI CLJGT VWWA Ž/ž Ž" KJYVOOCRGF IPVGVODIGDGOV(

*WANNA Z/CH Z"

;	/< GRMFIR +CPFU<GIKU žl Ž#*	=ORTONEGHISFUFUV GRM/RO/LUCHICHWIFIRI ; GCPUG /ICPBR { LUGO +CPFU<GIKU } Ž" 9IKOGNRECOPV *TICP COGPV/107CHWIFIRI CROWCPCH/G EDOGEBKNRGRG POLGJOF RTONEGHISFUFIRI KOTEPUMVIRI CPF GSMLIRI DMIRI U CPF RQJIRI EGNDPELUUCHKUMIR VGDOPFU	ŽL ŽZL Ž#	ŽHHT " fHHT "	Ž #ŽL#HHT	' \$M #HHT
; /< GRMFIR +CPFU<GIKU žl Ž#	=ORTONEGHISFUFUV GRM/RO/LUCHICHWIFIRI ; GCPUG /ICPBR { LUGO +CPFU<GIKU } Ž" 9IKOGNRECOPV *TICP COGPV/107CHWIFIRI CROWCPCH/G EDOGEBKNRGRG POLGJOF RTONEGHISFUFIRI KOTEPUMVIRI CPF GSMLIRI DMIRI U CPF RQJIRI EGNDPELUUCHKUMIR VGDOPFU	ŽL ŽZL Ž#	ŽHHT " fHHT "	%M! #HHT	! ŽBZ#HHT	
; /< GRMFIR +CPFU<GIKU žl Ž%	=ORTONEGHISFUFUV GRM/RO/LUCHICHWIFIRI CROWCPCH/G ; GCPUG/ICPBR { LUGO +CPFU<GIKU }) CROWCPCH/G QALWIFIRI EDOGEBKNRGRGPOLGJ KOTEPUMVIRI /ORTONER/ TOPQJIRI /CPF GSMLIRI RICRGN) CPF RQJIRI EGNDPELUUCH KUMIR VGDOPFU	ŽL ŽZL Ž%	ŽHHT " fHHT "	Ž SŽS#HHT	Ž ŽŽ #HHT	
; /< GRMFIR +CPFU<GIKU žl Ž%	=ORTONEGHISFUFUV GRM/RO/LUCHICHWIFIRI CROWCPCH/G ; GCPUG/ICPBR { LUGO +CPFU<GIKU }) CROWCPCH/G QALWIFIRI EDOGEBKNRGRGPOLGJ KOTEPUMVIRI /ORTONER/ TOPQJIRI /CPF GSMLIRI RICRGN) CPF RQJIRI EGNDPELUUCH KUMIR VGDOPFU	ŽL ŽZL Ž%	ŽHHT " fHHT "	Ž\$A! #HHT	Ž ŽA#HHT	
; /< GRMFIR +CPFU<GIKU žl Ž&	=ORTONEGHISFUFUV GRM/RO/LUCHICHWIFIRI /ORTONER/ TOPQJIRI /CPF GSMLIRI RICRGN) TGHWIFIRI CROWCPCH/G QALWIFIRI EDOGEBKNRGRGPOLGJ CPF RQJIRI EGNDPELUUCH KUMIR VGDOPFU	ŽL ŽZL Ž&	! HHT " fHHT "	Ž\$A! #HHT	Ž ŽA#HHT	
; /< GRMFIR +CPFU<GIKU žl Ž+	=ORTONEGHISFUFUV GRM/RO/LUCHICHWIFIRI /ORTONER/ TOPQJIRI /CPF GSMLIRI RICRGN) TGHWIFIRI CROWCPCH/G QALWIFIRI EDOGEBKNRGRGPOLGJ CPF RQJIRI EGNDPELUUCH KUMIR VGDOPFU	ŽL ŽZL Ž&	ŽHHT " fHHT "	ŽS\$#HHT	Ž ŽBZ#HHT	
; /< GRMFIR +CPFU<GIKU žl Ž*	=ORTONEGHISFUFUV GRM/RO/LUCHICHWIFIRI CROWCPCH/G ; GCPUG/ICPBR { LUGO +CPFU<GIKU } Ž/ Ž/ CPF Žl Ž#, KOTEPUMVIRI /ORTONER/ TOPQJIRI /CPF GSMLIRI RICRGN) CPF RQJIRI EGNDPELUUCHKUMIR VGDOPFU	%ŽZL Žl	ŽHHT " fHHT "	# /%M#HHT	Ž #BZ #HHT	
; /< GRMFIR +CPFU<GIKU žl Ž +	=ORTONEGHISFUFUV GRM/RO/LUCHICHWIFIRI CROWCPCH/G ; GCPUG/ICPBR { LUGO +CPFU<GIKU } Ž* CPF Žl Ž+) C RONCPCH/G QALWIFIRI EDOGEBKNRGRGPOLGJ KOT EPUMVIRI /ORTONER/ TOPQJIRI /CPF GSMLIRI RICRGN) CPF RQJIRI EGNDPELUUCHKUMIR VGDOPFU	%ŽZL Žl	! HHT " fHHT "	##Z" #HHT	" %S#HHT	
; /< GRMFIR +CPFU<GIKU žl Ž	=ORTONEGHISFUFUV GRM/RO/LUCHICHWIFIRI CROWCPCH/G QALWIFIRI EDOGEBKNRGRGPOLGJ KOTEPUMVIRI /ORTONER/ TOPQJIRI /CPF GSMLIRI RICRGN) CPF RQJIRI EGNDPELUUCH KUMIR VGDOPFU	! HZ' ŽL Ž	" HHT " fHHT "	Ž Ž###HHT	" ! Z#HHT	
; /< GRMFIR +CPFU<GIKU žl Ž&	=ORTONEGHISFUFUV GRM/RO/LUCHICHWIFIRI CROWCPCH/G ; GCPUG/ICPBR { LUGO +CPFU<GIKU }) CPF RQJIRI EGNDP ELOLUUCHKUMIR VGDOPFU	! HZ' ŽL Ž&	ŽHHT " fHHT "	ŽZ&" #HHT	% " #HHT	
				ŽZ&" #HHT	% " #HHT	
				! ZZ" #HHT	\$ ŽSS#HHT	

=J GRQ OGPVWQDG TCEKGF VIFGTPOP PPEOGD GQOLUQRI CPIR KNGO IPGEGLUCHPG [COTCJH VMM! Ž/ž Ž"
CIGUJOMYU'

* VMM! Ž/ž Ž"

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=J G< UGO J CUGAGGF IPAD<+2* UGTV GTIJ WOGGGAGPNCVU URGDOOKP VGEJ POKI [UOW CIG ROKOJO/OPFAT
IRHOMWANGF H GUGA TCGOPLUSWMI CUGV GRV CPV CAVGO UMLETRVKPUD TCGOPLUMFG O* <+ <AO GO PV/CFI
'\$ <MLETRVKPFDUF 21000OKP =GEJ POKI [* TCGO COGPW OPF/ V GIGAG C TIKV VQ WG UMLETRVKP CUGV OPF
EONUROPFIA UMLETRVKPMDWY J CGDGP TCGOFG CUGDOOCPECOPVCH/GUMLETRVKPVGOU!

✓ J GUGA TCGOPLUY HNGRRGIP XCIQW [CCUV TOM! ž! Ÿ Ÿ! / VGVQDN UMLETRVKP RQ OGPVY C J &%ž! Ÿ Ÿ!
EDRKF CH % %/#Z%&F RUEBRONOPF '#/#&&!' Ÿ IRAGJU/GRCPLUF H J G UMLETRVKP MDWY Y CUGOGLWF DOLF
VIOP V GIRECOGPVNDOTVIRI TAGCJH M GEOPVCEVUQVFOGF H J GIRECOGPVNDOTVIRI TAGCJHEMWF VRI V G
SVAGWY OGA GCH TCUWY , CPVCPV6 QWVKGUUTGRWF D V G/CFGTQ CUGXGF PCIKDRQ OGPVW Q/CIGPO CD\$

OAC% HEEZC

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, CPURWKPY* TWIGA? 2<CEKOP \$%/CPF =GZUOOGPQGPV, CFG=RIG&/<MKR, fHJG=, <PKP KUCSWKPF RCPUCP VWW
WFGT<CEKOP "I Ž" Q CHM G2AGPON GGPV, CFG=JG53 KUWINGJUW GANWOKY VOGUODNU CPF COOPF DPGH/WOPF
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OG CORRIQGF KER OPEJAHAT OGIG CHVG UOPFAIF YANIEF CPF PO/ GCORIF HOD OGODGUJR WFGT =GZU
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- GLOKF IRKDOOKP COOM VLG=, <PKP UHEVET, PG/RCUOKP KUODDING IP C URGODQJ KUWF *, /; VOV/IREVIGU
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; RGT<VGGV* WIBY=A%&%ŽE\$ &I

#, C <HOLEK>;:

=JG=, <PKP RICMFGUTGRCOPV FIKDM/ OPPWIGUOPF FCOJ CPF UNWAKT VGUOPON NON NCH TES

VIGP VG UNEG CHWIFIRI KOT VG CORKI CGU EODRGPUKOPV VG <VG CT VG <[UGO ECPOVW&J C RGECPA G OH
RCMVKOPVW&J C W&J &H° CHOPPAKNEODRGPUKOPVOTFVIRI VGOCU/WGOCPVRGICF CHZI Z! f!

=J GRGPUPRKP RKP_UHEBIC[PGVRQKPKIUFAGIOIRGF VJRI GEOPDIE TLO/EGUOGCU/WGOCPVIE/CPF V GCEEMNDUJ
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RQ_CDGIP CEDOFPEGYKU VGUGOUCM GRNPFI 2XGUOGPUCIGTRONGF O/HET XNKAFI / OR XNKAFIUCOCAW&J C
OGCU/WGOCPV PO/CP CPV[FURGBE OGCU/WGOCPV[= <WKGUOPGATOQG&J V GHDYIRI XNKAFP VGE PISVUJP CIFT
VQOGCU/WGOCPV[V GOCTW/CRRCDEJ/V GEOLW/CRRCDEJ/CPF V GIREODGORCDEJ f1 6 QIGFQD&F IRHDOOKP CP
VG RIPLU IPXGUOGPV RQH/ CUGW CPF HEMBIC[PGVRQKPKP OQ[DG CDVDRGF HOD = < HKDNZI Z! *PPWN
, ODTIGCPUNG/IRPEON GRNFI

V MMW! Ž/ž/ž"/VG <[UGO TGRNF C MOWW CH' Ž! \$/ž\$&o KOT KURKCKPKPQG U CIGCHM GEOMEWKG PGV/
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=J G C E W A K N O M K P Y C U R G I O D F C U C H * V M M ! Ž Ž Ž F I > R F O G R I C E F V I G Y G I G W E F V O T O N K O Y C F V G V A N
R P U K P M O D M Y V O * V M M ! Ž Ž Ž ! F I J G C E W A K N O M K P U K P U M F I P V G X D W K P Y G G R I O C M Y D O U F C P V G T G M I C H
C P C E W A K N G Z G K P E G U M A L K O T V G K O V [C C T R G I C F C P F G F * V M M ! Ž Ž Ž C P F C F C R G F I P 3 M Ž Ž Ž F I > J G C E W A K N
C U V O R K P U C P F O C J C F U C I G V G U O G C U M F I P V G F Q G I O I P O K P C H V G R I O A T [C C T U 7 Q / S C P U K P B C D M Y F I

=J G = G Z U J Ž ! 53 K U A V G R O U C F K B K U A K P V O U R T O N E G U C C P G I O G U I R C P F V O E G M A P T A M C F V O E J G U I R C P F Y C U
R C F V O T G R G G U D G I R P I R I I P < G R G O D G F C H Ž Ž ! F I J G 53 K U A V G C R R I C R I O G F H V F U V O R Q , K O T V I U C P G I O G U I R C P F U D
V G I G Y M A D G P O I O R C E V C P V G 7 G / 9 3 P U K P B C D M Y C H ; < F I P C F F R I C P V G 53 K U A V G C A U D R T O N E G F K O T C , 85 V O T G R G C U
Y J I E J Y C U C R R I O G F F M I R I V G 7 Q C O D G Ž Ž ! G R E K P Y J I E J Y C U R G E 3 P M A L Ž Ž " F I J G G G O G V V U C P V A R I C P V M D M Y
Y C U P O V G H I E V G C U C H * V M M ! Ž Ž Ž ! F I B V G I Y K O V V G G J O G D G E P P O E J C P I G M Q V G D G P G H I V R O M K P U C H M G R M P U R E G

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=JGUAGGHTGQUE/MCPVII RCVEROQUIP WOVRGUCHFOIRGF DOPCHIV/89 + RICPUSI =JG<UOO RCVEROQUIP VG. ; <

=J GLOVEGCHM GOVIBRNDOPF TOGIKUNG+OPF +VJGZ CHI GPGIODOOKOKPUDOPFUYKU ži [GOIUNOOAWY OPF
OKEF EIGFKSWAII f=J GDOFPFU_OGID GEIGFKSWAII KUTOMI] GSNIKPAWQ6 ODF_UZPKGJOU-GKREGU" C Z TUIH OPF
<OPFCIF " 900TU, OIRLU" *fI

=J G CEWAKNCLUOKPUWF IP V G XWAKOP YGG RIOCKI DOLF CP V G TQWV CHCEWAKNGRGKGPEG UWAKU
RGKDOGF D[VG. ; < TGRGOOPVRKIP CEWAKGUHGT V GRGKCF <GRGODGTŽ/ži Ž' VQ* VWWA! Ž/ži Ž' KDUOG
C GPE[OCODGUOPF KOTV GRGKCF <GRGODGTŽ/ži Ž' VQ* VWWA! Ž/ži Ž' KOTJIKJ GTGFEDOKP OCODGUHJGODVWY
TOGUY GIGDOLF CP V GVOOKLUEGPABIF IP V GDOOGVOKGVKF * EWAKN6 GJ CFUCPF * UWOKVOPSI

MOKWY YQW DGIK VY GIGEOMMDF WPI J GOV ECI GEOLWICPF TOGJOPGRGECPW GRCIPWY GRCOPGRGECPW GRCIPV
JKJ GTJOPV GEWIGPVIOQ

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žP&P%#

=JG<[UIC] KUPOKNGF IPUGGICNRPFIPI CPF V100/GPF KI CNEVKPS>PKWQJ GYKGFKRQKF IPV KUPQG/VGTP1 GOH
RO&PKVOKLHOD CIVLWJ EKIOUOPF CENKPS CAGJIKOAF D[VG<[UIC]_UIC CNEVKLNPF OCPD COGPVUQI P0/
OOGKOM CHIENG<[UIC]_UHRCPECNRLKOPF1

* OOMAUTGEGKF OTGEKODIGHOI I TOPIA G CPGKJGUNICVADOMK/CPF CFMVOGPWU[UME C GPBQ/RIPEROMI
VG>RfII QGPOGPW[P[FKQDGF EKIOUOQF EOPWNGCIMOMI CHNG<[UIC] HGOQMVHKP]/CHGRGPFRWIGU

RMEJ CLEEDOGEBNIRUWPEGKOTENIQUIP GZGJLCHM GOKEJ OGPVRDPAH J GOKEJ OGPVRDPMKZI Ž" YCL \$#A# fl
/CV GHEON CCTOPCF * VMAA. Ž/ž"/EGOURIE OMVGGPO/OAGKRI

*C9G: #JI . D 1; EDO: 2 A'CH G09 \$ABH

=JG <UGO LKHURNGU LODGRJ [URONRIV] CPF RICRGV FOOD GEKOUVVA/CIG PCV/HROPEGF VTOAIS EDOGEON
IRUNOPEG/CIGDQWY VG TQGPCK COQPAUKTETEQUOBGIF DJ EDOGEONRUP/PEGF JG <UGO/CJCP A CPJ OH
VG <AG KURQKGF HOD TMOKHNUKRI HOD VGLG VOLENDUQ LQGKPK KOVRI/GZCRV/CUWRI ENIOUCIG
RGTRWCF VIFGTVG=GLU=AV, KIOW* EVIP CFKIP VONOKRI VGV/RGCHRGUPONRIV, CPF FOOD GEKOUVVA/CIG
DIAWVA CIGUVVG <UGO/VG=GLU=AV, KIOW* EVIKLUVG KIUVVA/CIGPCP HOD ENIOUVVA/CIGPCP DG OCFG VD
Ž#A#H KTGEE RGLUPY #H#A#H KTGEE URI KGDEW/PEG CHDFKJ IRV[CPF/CPF Ž#A#H KTGEE URI KG
DEW/PEGCF/FOOD GATFGUWVKPCHRORGV/f/CTV GHEON CCTOPCF * VMAA. Ž/ž/ž"/EGOURIE OMVGGPO/OAGKRI

& J 91DGI ; =7A 78AM

. FVIOOLUS CNEOMI EQGD GIPUNGUWPKWAKPUIP VG <UGO CUY GNDJNDHEGU/CORI@CGUOPF XOMFAGGU/HG
RQEJ RTONEGUERCOZIOW MDRCH Ž#A#H YKU C\GOFGVWMOGRGTRUNG IRKNEVNOF #H#A#H FGFVENDG
RGTRWCF GPV[fl

"JIDBDBA

=JG=GLU 6 QLT ?GHEG <AV[; GURPUOMI * EVIGSMIGUVA/XGIEKUORGIAF CP C UAGJIKYQ DG IRUNG KET
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- ; : ?/ACD; HHDCA 78AM

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=JIEOGIA GNDGAGPFUWQ1< OGFIKNUWCPV>7= - CNUWFCPVIP VGEQMLGIRI RTQ TCO) CPF >7= WFCPV
OPTOLF IP XCIOWRI TOUW WED CULCOKY CMEOMPLPI/TG COKIOPCP CUKIOPAWG COKIOPCP EOMPLPI/JGON
? W P K V † MN GDU %oo%o _ N

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QWLOPFIR EQUUYGGRPFIK O/* VWW! Ž/ Ž"flJG <LUGO OGPVOPUQGKXKIK VACORQOCGPVEODROPLAOPK
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V P U %o%o U .

E N

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2 * VMA/ZH! />7= CPAGIF IRDQCP A TCGOPVYKU VG>7= /QMFOKP VQDG/IG FCHRGV G TCKMKPU IR DG/V GGP VG
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ZH! A TCGOPVRCNFG VOA/VGF GOKROGPV/CFGUJR KOT>7= YQMI DG RTMFGF D[VG>7= /QMFOKP_U, JIGH
. ZEWNGSHKGFI P COGPFC A TCGOPVY CUCRTOGF D[VG>7= /QMFOKP_U+CCF CH- RGEAQUIP VGT ZH!'
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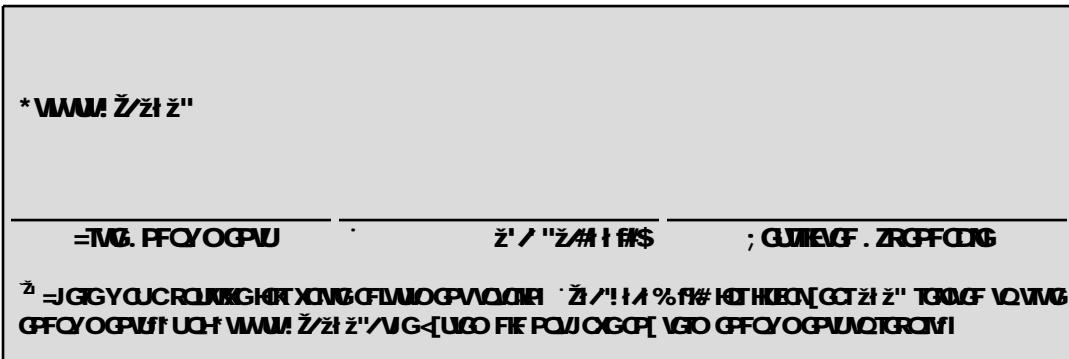
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; G GPVf1=JG FRGEVOP CPF OCPV COGPVCHM GCHRUCHM G>7=1< /QMFOKP CPF VGEOPVONPF FKURQKOP CHRU
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=JGFICMOMWCPKUOFGIPCECIFOPREGYKUVG=GZL>PIKDO9MBCPV6CPDGOCPVCH2UKNWCPNVBFU*EVHJGPV/
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CPFZRGPFKNGD]VG<UZOfl



4CK GIND: DO>3 MH DIC 712C

=JG>7=/QMFQKOPJURCPFIRI RQH[KOTVKKFCPFOYOGPVUHGKNUOPCDIGEKGVOFRIMDAGCUOVIJ VQVNGWPCDU

4CK GRIND. DO>3 MH) ; 7A>29,09 \$ A; G DIC 7 DC

=JG>7=1<, /QMFOKP_UOCPFI RAIK KOTCPFO/OCPVUHIEUOP OCGEVKG VOFIOMANG CJOVET VADNTGWP CJKU
ECPUDAPV YKU OGONWPKGUOCPV OCGEVKG CPF IRAGI CPFOKPGNSWY YJHIS RIOLVERI VG TONXONG CHVG
CPFO/OCPVRIERBODI * P CPFO/OCPVUGZENGF HOD VCI G/FIOMANGCP VIANW GCPFO/OCPVJ CUDGP CJKDNU GF KOT
CPG[CCFI]

=JGVCI QFIMANGCP CHUOPFCOGIREODGVOCGEI VEFVCHM GCPFO/OCPVHMF YIHDG" CHM GOONI OGIA GOONIV
XONVCHM GCPFO/OCPVHMF KOTVGRICECFI Ž Ž SVNGUSI >PKLWQJ GYIKFGFGIOIRGF D[VG>7=1<, /QMFOKP
+OOF CH RKELOU/V GVIQ GJPPVNFIMANGCP TOGU CHDG" CHM GOOGI GMVKOCNMXONFI/CHKON[CCZI Ž"/VG
FIOMANGCP TOGYCUI" f1 - KJOMANGCP U CHDG OCFG CPPVAFI =J KJOMANGCP COQAVU CHDG TGEOMANG CCEI [CCT
DOUG CP CŽFSWANGTOMI OGIA CF12H0ACP RCPVCHFIOMANGCP VGHITOCNMXONVCHM GCPFO/OCPVUDGKU VG
EOMANGCP GGPFO/OCPV/V GFKOMANGCPUU CHDGFGIGIOIRGF CPCUMIPI UEGDOLUKI

=JGFIMANGCP KUOFGIP CEEOFPEGYKU VG=GZU>PKDIO 9MCPV6 CPD COCPVCH2UWICPONWIFU* Evi =J GPG/
CRKICOKP TMOVWAKGCP VHGZCPFGI CPFCPOFCUWIFG CPFO/OCPVUGZENGF DOKY KUOFGKOTAN CJKOKP
CPF GRCPFRWGDQ VG>7=1<, /QMFOKP/CFKETIGEODRCGPWIKCHM G<UOIFI

*VMAA Ž/ž Ž"

=TMG. PFO/OCPVU

% ! " # \$ % &

7G/ UGDUYKU - CPOT; GJMFOKP

Ž =JGGY CUCRQHKGK XONVCHM GCPVUOPI " / ! # % & KOTHEON[CCZI Ž" TGMGF VDING
CPFO/OCPVU* UCH* VMAA! Ž/ž Ž" VG>7=1<, /QMFOKP FIE POJOG CP[VGO CPFO/OCPVUO
TCOMV

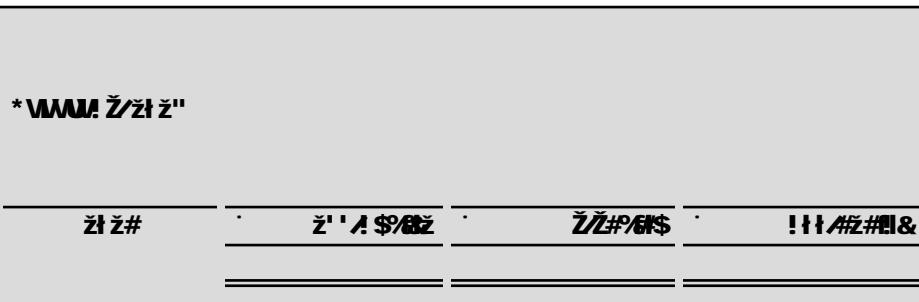
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; GEOPHOKP * EV~, 8+; * a VROP VGOIKAOKP CHORN[CGPFI =J G<UO FOBUPA/COIRAGTVG, 8+; * RNP CURVU
OCPD CF VTOA. ; <1

=JG<UO J CUPGIGF IPIOCDOMNOGLGMEGJU TCGOPVYKU +CPGU" 700G, CMB G+CONDBU 55 ~+" 7a IP Ž Ž f1
=J KUJ TCGOPVUXDF VIANBAG! Ž/ž Ž&f1" 7 CRGOKUCHM GKGDOONIICGCP VG>7=ECORMVNEOLF IP -CPVCPFLP
VIAUD TCGOPV VG <UO KUVG VCPUGO/ TOPRI +" 7 VG TIKVVO CRGOKG IP VG>7=<MCPV>PKCP CPF VG
A TCGOPV/UEKUWCF CJC<GMEG, CPEDCP* TICP COCPVRGT* <> <MCPV>7CF " /VMMERPKOKGCPF PMMERPMNE
9CPGJU KUOCPF * XONVCHM Ž/ž OCPV* TICP COCPVFI=J GPOVIG CPF GAOCPVCHG TIKVVO TCGOPF D[VG <UO CJC
VCPUGO/ VAFGTU KUOTPI COCPVIRENG/DVAGPOMOKF VZ OCPADRI TGUFWNIPAGGJIP VGWU[CHM GULW
LGWRI RIEGUOPF JQJUJCHRGOKPUCPF RMEJ CJI RPKPDI[CPJCPF OAGIOIKAOKP; KJ VU TOPGF VCGDADUWV
A TCGOPVO[KEMEGV GORN[VOOCHGORTOCGPVNUV GURGEYKU YTRGP RGOKUOKP HOD VG<UOIFI

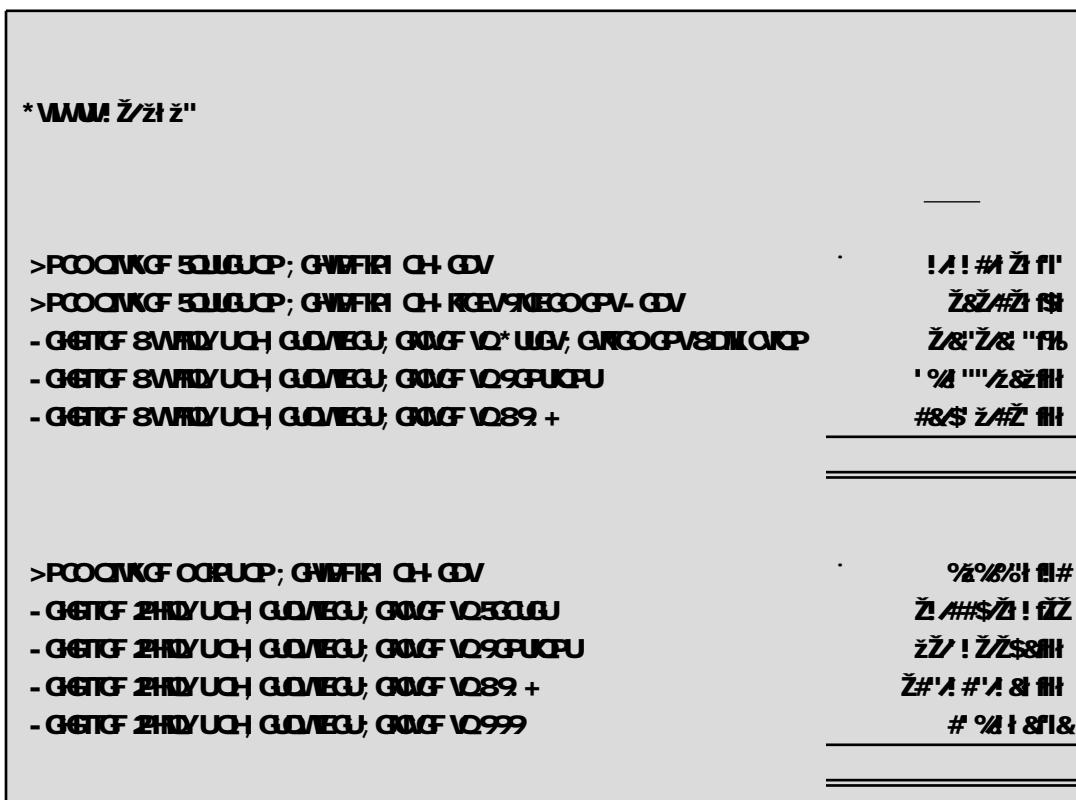
=J GEOPVCEVRQ OCPVAGIOUTGSWY+ " 7 VORQ VG<UO CRGECPAI GCH TOLUOKUCHŽAF" VEVVONGHILU & I I I I I
IP LDUOKP VGP Ž'ff" VGCCHGTPCPVWU CP CPVWV WZCPVGF OIRHOV CH Ž/ž I I I f1 JUKECPUEGGF CXKOKG
RQ OCPVRGT* <> <MCPV>7CF " f1 VVRI VGHIBON[CCZVGEOPVCEV CUGAGPFCF HOD 3AG! Ž/ž Ž#VQ3AG! Ž/ž Ž&
VVIK GII C TCGOPV/CGPFI 2 VIU TCGOPV VG FG&TGF IPHOU CHTGLOUGI RETGOLF CPF CP IRUADCPV

D TCGCPVQDF . Ž' A \$%\$Z CPF . # % I &I&TGURGEKGPF W GECOPENKOP CHM KU TCGCPVVG<UNCO YHNGDP
VGKIJWNOV G>7=<WCPV>PROPUREGI

2 ŽI Ž"/ VG VOONVOMERPIKOG 9CNPGLIR ~ 999a IRUOUDCPVRQ OGAUTCGKCF VDOKF . Ž/Ž#%I"/ EODRKF CH
/&& I!%RIPERONOPF . Ž/Ž% I!%RPGQJF JGHN/G999IRUOUDCPVRQ OGAUDUCH VMMI . Ž/ŽI Ž" CIGCJHOUYU



* UNOC[CHG<UNCO_UFGANG QMIV UCHGLOMEGUOPF FGANGF IRHIV UCHGLOMEGUUCH*VMMI . Ž/ŽI Ž" IU
RIGEPUOF DGOY(



<G70GJ/2BB7ND>2-C29D "9DIDC=CDP, H70G#, DC=3 CB , 78A?H70G%, ; 7H7C 2#3'H70G&
% 4C: #, C 4 0 CHDCAC7C % 4C: \$00G 7 C : % B ff

=JG>PKIGU[CH7OM =GZU/QMFOPKPV 2EF1^>7= /QMFOPKPa IJC PCPRICH/CH CPKAOKP GJODNU OF VQ.RIONEG
HRCPEKUWRCVWQVG>PKIGU[CH7OM =GZU[=JURVRCQG KUCEDRNU OF D[VG>7= /QMFOPK TECOKRI CPF
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>PECPFKOPNRCOKBUVQI KG CIG TEC0IFGF CUCGKOFFI , CPVIIWCKPUCTGKONG FVGPV VGPGRV[CCT CIG TEC0IFGF OF
VGRGJUOKGF PG/TCOKKONG XONKIFI , CPVIIWCKPUCTGKONG FVGPV VVAGSVPV[CCT CIG TEC0IFGF OM GRIGLGPVXONKACH
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FKEOM/VG COQALSI *P CDMYCPG KOT VRCHEMNG RICOKBUVQI KG JCU D3GP RIONEGF DOLF CP OCPD COGPAU
GJODNU CPHECPVIIWCKPUCTGKONGV[CCTCPFFI

, CPVIIWCKPUCHCQI CPF OM GRGJUOKGF TEC0KOF CUCGKOFFI WRCVEMG[CIG TEC0KOF YKU FCPOT VRCMVKPUV OF
MORW GWAUCHI GFCPDQGF CUCGKIFI

. PFO/OCPV ECPVIIWCKPU CTG RGDOCPGV[TGJUWCF D[VG FCPOTI 2XGJUOPV/IRECDG OXKING KOT FVIIWCKP
IU TEC0IFGF CUCFOPCTGJUWCF PG/CLUGUDEROGH-RIC TQJUWCKPFI JGRONOP CHM GKRKXONKACHGPFO/OCPVWIFU
YJIEJ KUDQY VGPFO/OCPVWIFU KQJUWCKPFI UTEGF CUCGKOFFI PGV/CLUGUYKU FCPOTVWANOPC

, CPVIIWCKPUCHCPDQGF PCPDCU CIGD3UIG TEC0IFGF OM GRGKDKUJIP VGRGKDF TEC0KOFFI , CPVIIWCKPUCHCPDQGF
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RGKDF TEC0KOFFI

7G/CUGUW TECOPKU[I CIRU CPF KUUEUIG ENULWCF DOLF CP VQG ZKU/CPG OF CEGPCHFCPATMORLUF OF ITOPAOF
KORLUF TGJUWCKPFI EOCFIRI VVPGQJUQWOPF EJCPI GM GGP CIGEQUWCF CPF TEC0KOF CUCGKOFFI

. ; I "HHIH6 ?>D1 %000G1; HG9ZDH] 7G/CUGUW OXKING KOT VQG IP I CGPGNORGIOKPUCPF PQ/VM/GEV/QFCPAT OF
EGNOPI ITOPAOF TGJUWCKPFI JGI QXGPIRI DOOF J CLFGKUKPQ/GF/HOD PGV/CLUGUYKU QMFOPCTGJUWCKP/PGV/CLUGUW
ORGIOPI TGJGKUOPF DOOF IFGKUKPQ/GF CPFO/OCPVSI

. ; I "HHIH6 ?>%000G1; HG9ZDH

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VGDOKIPGU CGG/FOLG/ECDRKGV GHDIVIRI (

* WWW. Ž/Ž Ž"

, OJ OF EOU GSMOKOPAU
5GUEOU OF EOU GSMOKOPAU RENEGF IPV GIPXGJOGVROON
8RGIOIRI IPXGJOGPAU
, OJ OF EOU GSMOKOPAU RENEGF IPFCOPITGJWEGF HWDU
+OOF FGUKPOGF TGLGXGU

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>7 /QMFQKPF GFPQ/OGPV HMFU ECPKU CHFQKPGVWGF GFPQ/OGPV OPF HMFU FGUKPGF D[V[G DOOF CJ GFPQ/OGPV 12ECDGHD FCPKPGVWGF GFPQ/OGPV KUJGLWGF KOTURGEHE RVIRGUSI CPGKPGVWGF GFPQ/OGPV HMFU GPOVCKDKGKTI CPGKPGVWGF

SW! DCOFFGUKPOGF GFOYOGPAU CH^ŽE! AŽ ŘÍONEG KOT OPPAANFKMIAKPU VQ VG >PKGUR CH7OM =GOU
* NJ QMJ YGFQPOVIRGPV FOD VGLGDOCFFGUKPOGF GFOYOGPAU KOTI CGKGNGRGPFRNG/VGLGCOOMAU
EOMV DGOFGOOGKDGKPCGUJCTF!

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OCPC OCINWHRFL

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EVWGPVOCIM/W/CPFRKOPUTG CIGKUWCHY J QJ GT V O/RKEG KUFRGEVJL CIGKXOKG CT GUJDOGF WRI CPQJ GT XOMKADP
VEJ PISWVIZERWUWVGF VOFAGIOTRG KRF XCMG TQET DLOFTJ VQ V G CLWOKPUPV O/OCTM/W/RCVNERCPAU Y QM VAG IP
RTEBPI V GCLWOKCIMD/IRENBPI CLWOKPUPUDOMKRNZERRAUOQ DGOUGXODGTVODLGXODFBOLGXODGIRRAU
CIGIRRAUW OLTKEEV GCLWOKPUPUOCIM/W/RCVNERCPAU Y QM VAGIP RTEBPI V GCLWOKCIMD/ DLOF CP OCTM/W/OC
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DGLMPKODOKP CIGKDGFT V TCGRGTJIGCIEJ BQG CIGKU GIPRAUWCUKHDYU

SGN	: VDGF RIIEGU VDGFVWGF IP CEVKG OCIVAU KOT IEGPAKNDU GUDT MOKMIGU V O VY GEOP CEEGUJOM GOGLU/GOGPVFOGFI
SGN	2RMUJO/GVCP SVAGF RIIEGU REVF YRU IP SGN V O/CIG CEEGXDG KOT V G CEEU/CT MOKMIGU/ CVG GT FRCEVU CT IFRCEVUf=J GLG IRENEG SVAGF RIIEGU KOT UOKEE CEEU/CT MOKMIGU IP CEVKG OCIVAU SVAGF RIIEGU KOT IEGPVNEON UOKEE CEEU/CT MOKMIGU IP OCIVAU V O/CIG PO/CEVKG IFRMU QJ GT V CP SVAGF RIIEGU V O/CIG CEEGXDG KOT V G CEEU/CT MOKMIGU/ CPF OCIVAU MOKMIGU/CT IFRMUSI
SGN	>POLGXDGHEPVAU KOT V G CEEU/CT MOKMIGUf=IP V GLG UMKPU/Y GFGGKIR IFRMAU V GDGJURPHOOCP OCKEDKGIP V GEREVOLUSPEGSI

**2 LODGECLB/V GIPRMLMUF VOOGU/LV GIKTKDNQDCHP QLGLWOKJ VDGEODG CIGF YKJ IP FIEBGPV/GCNDH M GIKT
XKMDA JIGCIE] [f12 V QLGEODG/V GIKTKDNQDCHP QLGLWOKJ VDGEODG CIGF IP KIJCPRNG] IP V GLDODG/GCNDH M GIKTKDNQD
JIGCIE] CUN GKD GLKQGPRMLM QMKLKPRIEGRLOV GGPANGOCQ/ISCPAT* UGIPR VIGUKPRIEGRQCHCRVMEVIT**

IPRMAQCPAGOCU/ICOPVIGMIGUM OCP/VONPI IPQDCEQPA/KEVOLURCHIE VOGGULAFH GEQG COKAOP CHP
CQG/YKIP V GJIGCE] [KUDOLF VACP V GRHEI VCPURCIGPE] CHM GQG/CPF FCBUPC/PGEGLDQF EONGRCPF VOQ/V
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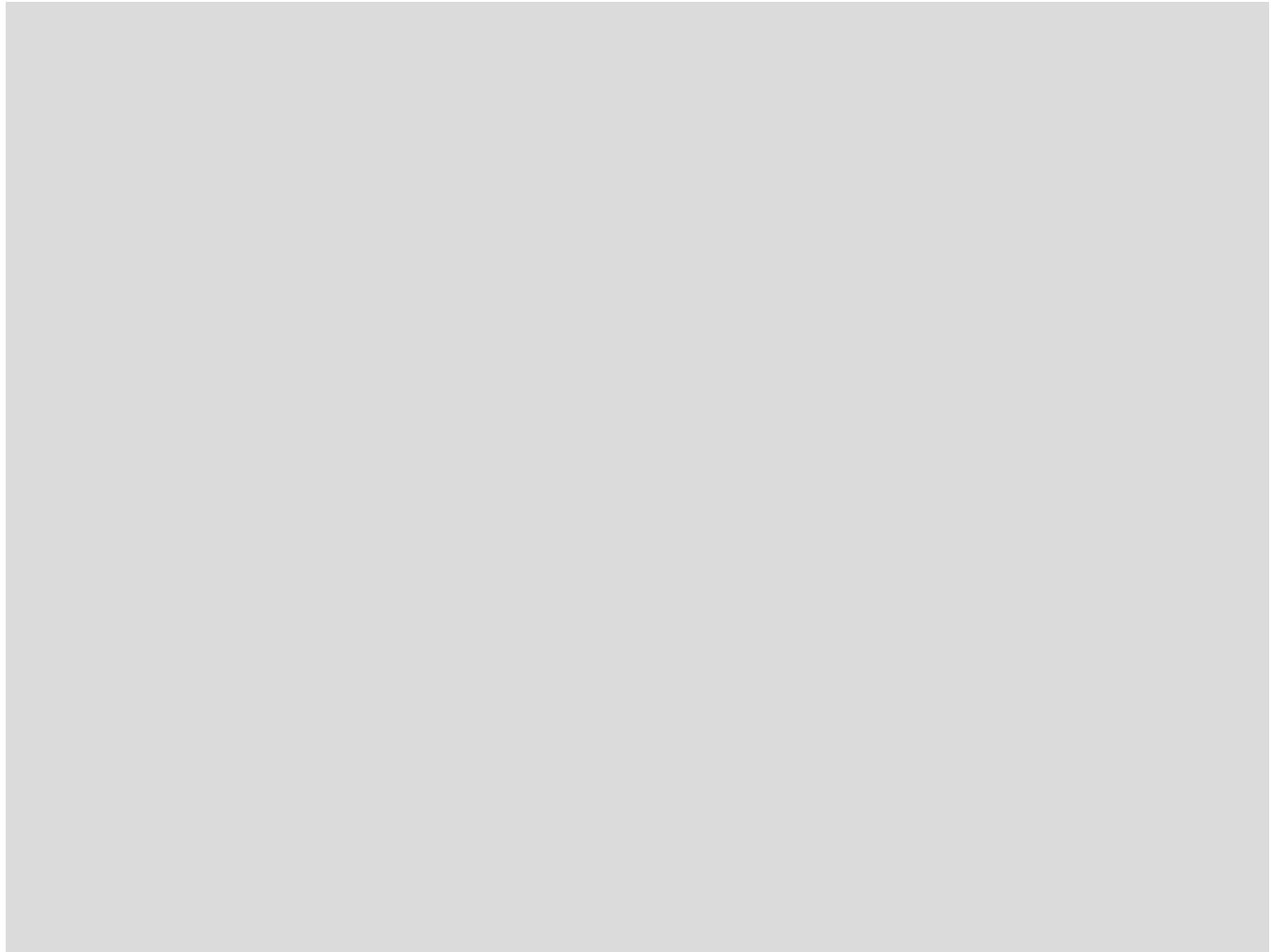
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OCIVAFHJCLG, - UAGXMF Q[VGEALIFCPUCHM GLE/NGUWRI RIBRI OCFGUDDOLF CP EIGFVSVN/VOGVO
OQW/UAQF IPGGU/DOG/CPF OCIVATOGAWIKCP/CPF CIGEOLWICF YKIP BGQVf

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XOMAFPOQ/CPK] [CPF KZOMFVJUKUECPUEGIGF VDGC5GQH OGQ/ICOPV]

@GWGPG/CUG/XNG^7*?a RGTU CIG/CTKUGSM/ICOPV U/ QJOGODGTWIKUOP CP Q/PGUJR IPGGU/CP RCPVQ,
ECKOMCUCRICEVONGRCFIGPVQGWWAGVGHRTXNGWCHEGNDP JCFI GHMFU/RHKAGGSV/[FCDV/HIFUOPF MOKF
RCNPGLI IRUYJIEI FOPQJ QGTCFI FGGOIRCPDGHX KXNDUDOLF Q/CGOCLICF OMRTXNGWRI 7*? RGT
U CIGCLCRICEVONGRCFIGPVCPQ/DOGF IPVGHRTXNGWICDE] [f]

=JGKRTXNG^7*? RGTU CIGCLCRICEVONGRCFIGPVCPQ/DOGF IPVGHRTXNGWRI/Q/ VMM. Ž/ž Ž"fi

=J GŁOŚNIEJ WOKRĘGŁEJ PŁYTY JÓZEFOWSKIEJ OMÓTKOWSKIEJ CZEWAŁI DŁUGIE RÓWNE GŁOGOCZKI DŁĘGOWI
WIRI 7*? RGŁU CIGŁU CRICIEKONGZCIGPVOLIECPVILIF IPVGŁOŚNIEJ/WAŁ WWWW. Ź/żł ź! fl



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VGO CHMGD T330CPVGPFGF * VMAV! ž/ž/ž/YKU CRIONKCP VZQALADOLECNY TPGY CPPVAKI V GICGNGFBP<CRGODGT
ž/ž/ž/ VGD T330CPVW CUYGTYTNG YKU CP GHIEWKFOGCH-KRGODGTž/ž/ž/YKU V GICRKGNGO CPFIA CP* VMAV!
! ž/ž/ž%CPF CRIONKCP VZQALADOLECNY TPGY CPF GACPF K01CFRNKCPNKGfCCTVGIU!

. HEEVKG- GEGODGTŽ/ži ži / VJG>7= / QMFQAKP GPAGIFG KPAQCUUJKAQD! UQHITIPKGJUOGPVOCPD COGPV D TCGOPV
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, QPUDFOGF 2XGJUOGPV 900!>JG>7= - GPFQ/ OGPV WHFU CIG UUZGEV VQ VG UUQG IPKGJUOGPV OCPD COGPV CPF
FKUQDNP RQHUGJUQVG>7= / QMFQAKP_UIPKGJUOGPV! JGPKWVGO CH! G! TCGOPV/GPFU* VMM! Ž/ži ! / YKU C
RIOKUQVQOLODOKA! TGPY CPF GZQPF KOTCFFKKPONHKG! CCTVGOU! FFRKDPD! KHDALOGGPV>7= FGJGQIPGU
VQKUQV P KMFQAKP KURGOKPQD! ECRDQGCHRGKZD! V GIPKGJUOGPVCPF OCPD COGPVCH! G>7= GPFQ/ OGPV
RIOVQGRRQKOP CH! G! TCGOPV! VQ! VGOIPGU G! TCGOPVYKU ! FQ! UPQREGVQVG>7= / QMFQAKP!

>7=CPF>7= CIGIRFCRCPFCP/CHMG>7=/QMFQKCP IP CINGURGEVIT/GRUGT KUC UMLUICL CT CHMG CHMG>7= /QMFQKCP CPF CIGPO/FRCENI CINGURGEVII ECPOVCH D[VG>7=/QMFQKCPfJG>7=<[UIGO+COF CH G GPWUOQMLUOW FCRKUPUTG CIFIRI VG DMWIGLUCPF CHERUCH>7=CPF>7=/TGURGEVGTfI<REG VG>7=/QMFQKCP FGUPO/J OG

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CH RCEVOUT

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TGUWAKPUS

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EADENOKYCPF YHDGEOMEKF IP VGHU/SWANGCHMG[CCTCPFGF * VMMI. Žžžž#FIJWPOCDYCPFGHTEIGFKMULGJ
Y CUEKGF CUEH VMMI. Žfžžž"fi

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7G/CLLWYKJ FCOPIGJLAKPUJ VOGOF RVRQDQGTCUJLGF KLVGLDYLRI CUCHVMM! Ž/ž! ž"(

*VMM! Ž/ž! ž"

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9D&DUJUR	Ž%A #:
8VGT	žž/%

7G/CLLWYKJ FCOPIGJLAKPUJ KLVGLDYLRI GRCPLUGULQJLRI VGLDYLRI TGJLGF RVRQDQFVIRI
VG[CTCPFGF *VMM! Ž/ž! ž"(

*VMM! Ž/ž! ž"

- KDVWCPUCPF LEJCDUJRU	# &A %!
OKUOPF QJ GRCNQPAONRQ GRCPLUGUJ	

TGRMF PGVCHOP, CPVHQGK KQJGJFVKAQMPDNEVKGCEOMPAHJG>7=1<, /QMFOKP_URCM[KOTFGAGDRIPI YJGP
RKFJ GUTGECKDNG CIG RQJFVQCF QFQPSWOPVUYJ GP QNIGHDNVQEDIEVCRKFJ CF COQIAVJ OGDGP GZ OMIGFT P
CQDLY CPEGHOFQDADVNEEOMPAHJGJUOGLF D[OCPD GOGPVDCDF QPIRQDOAKP TCEKGF D[RKFJ CF FOPAUOPF RKFJ G
TCEKGF D[RKFJ LEJ CFVMSVQ CQDLY CPEGY CUECPUEGCF PCBQJCT, CUCH VIMMA Ž/ž Ž"fi

7Q/CULQYKU FOPATGJWAEKPUJ GH IP RGIGW YGIG ŽŽ/ \$### CUCH VIMMA Ž/ž Ž"fi JG>7=1<, /QMFOKP
CPFO/OGPVWIFUOPKU/CHGSW[LECVNG/ECJ CPF ECJ GSVAOKPUCPF IPXGUJOPVWIP IPXGUJOPVDCDOPKJHJG
WIFUOPKU/CHCOPVWOKPUCFG VQ GUODLU OP CPFO/OGPV VG GCPPIR UHOD YJIEJ CIG VQ DG WGF VQ WBRDV
FIRBICPVGJWIEVF RMRQDLSI UTGSWGF D[CECQWARI RIREKGIJ CPGDQJ CEEGRGF IPVG>PKGF <VAGUCH OGKOPGV
CULQJ CUEBAGF YKU CPFO/OGPVWIFUOPF CQF TGRMF DQDF VQCP VG GZKOPEG CT CQDPEG CHFCOPPI
IORQDF TGJWAEKPUJ

=JGIPXGUJOPVRCM[KUCLWF D[VG+CCF CHJG>7=1<, /QMFOKPBYCNEMAGUVGRIPERQD[YJIEJ VG>7=1<,
/QMFOKP OQGPVNGOCPD GOGPVCHKUJXGUJOPVWIP D[VG+CCF KUTGRCPUDIGK[CF CRVJ IPXGUJOPVDCDOPKU
CPF RQEGUS JRIK CPF GONVARI IPXGUJOPVOCPI GU GUODLU RI CECQWARI CPXKCPGPV CPF OCPPIR RKFJ
KOTFGAGDRIPI CPF IPXGUJOPV RGFQDOPCGF=JG +CCF GZGKCUKU TGJRCPUJ CECQFIRI VQ CRNEDNG HEVETI
WOPFCUOPF IPVGGZENWKGIPGJUJHJG>7=1<, /QMFOKP

* TGRMF PGVCHOP CHM GGPFO/OGPVWIFU DG HPPRI CPF CPFFIRI DQKPEGUJOTVG [CCTCPFGF * VIMMA Ž/ž Ž"
=JGGY CUPQEWVWMAKGCHIEVCHOP[COQWAD[YJIEJ PG/CULQYKU FOPATGJWAEKPU] JGIP RGIGW JCGDGP
TCFVEGF/CT RREIGDF VQVYGGPOURGEHGF D[VGFDPVCFIP VG CQDPEGCHFCPQ UIRWAKP YCRIOGF D[VG
+CCF

/CTVUG/KEONEGT. PFGF * VIMMA Ž/ž Ž"

.PFQ/OGPVPG/CULQW<CRKODGFŽ/ž Ž!
7Q/CRKODGF CPF VPIQDNGF

, CPATWAKPU
* RRTCRDOKPCHGPFO/OGPVWIFUOTGRGPFRWIG

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.PFQ/OGPVPG/CULQW<CRKODGF D[VRGCHWDF CUCH VIMMA Ž/ž Ž" YCQDQDQWU

* VIMMA Ž/ž Ž"

- CPATWAKPU

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=JG>7=1< /QMFOPCP QLWUJCG VQDG IPXQJGF IP C DQNPFGF RONVQD EDRQJGF CHGSVII/ HLGFIREDG CPF EOU
GSVIIKOPVGEVNGS@ UUJ/ KUJIPCPFGF VODGOQGDI TQJLKGVOP HLGFIREDG GDIKPGF RONVQD QPF KLUJ I TQJLKG
VCP GSVII KOPJDIKPGF RONVQD S12 VIUECPGV CD I TQJLKG TQJLKG VQWUJ KUJUJUGRCGF KIP FEGO TOGUJH
TQJLKG CPF TQJLKG XQDMM/ IPXQJUOPV XGJHNS FRQGUEROPC COCP GECPDIE CPF IRFWJL UGAVQI CPF IRFWJL
UGAVQI@KIP VIUHCOG/ QMVG RTTBRONIPXQJUOPV QDGEVKGUJCG UOAF DQOYfHJG QDGEVKGUTGQI PKG VG

=JGIOWIPI TGHENU>7=1< /QWFOQD_UHOPBONLUGUCLHM GDOQPEGU CG/FOLGIREVIRI COQIAUPO/CQKDG
YKWIPOPG[GCCHV GDOQPEGU CG/FOLG[OQIAUPO/CQKDGIREVIGFCOTIORQF TQWAVGF ECPVIAWCPRI

*VVVA. Ž/ž ž"

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ŽA'žA' #

/CIVIC/KEONECT. PFGF * VVVA. Ž/ž Ž"

◀UVO URICRONAPCHM GPG/RCPUOP NODWY ▶ Ž! ! Ž Ž Ž \$% ▶ Ž# \$ Ž% ° ▶ Ž% Ž% Ž% \$% \$ ▶ Ž! " \$! ° ▶ Ž% Ž% Ž%

◀UVO URICRONAPGU CIGCHM GPG/

/CIV G/KEONECT. PFGF * VVVV. Ž/ž ž"

<VOLVQJ TSVNG ECPVLOAKPU
, CPVLOAKPUIPTGOKOPVQNG
UOLVQJ TSVNG ECPVLOAKPU
, CPVLOAKPFGHEGP['GZC3W]

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CLWOF VZ GKEV J CONI EOGID G O/TGRCOPV/CPF RICRONCP CHNWIG TGRCLU GRBVF VZ TECIG VZ G 8R/8W, TFRV O/TGRCOPV "G V G RGEOPD G CH-11U GT . FWDOP XGLGF VZGIPOLF OGODGUCLWOF VZ J OIG VZGIPOLF KLUV CP CPG [CCT D30IG VZ G]CWAICP FOL' TH VZ G CPPVNDIG CHRECOLGIP VZ G 901CPV; CPVGF SWEDGU; GLECEJ ZUNAGKGRQ CORVIFGTVG* HIDFCIG, CIG* EVOPF 11 CLWDRICPUPH* LWOF 9GT, CRIC1CONI +CPHV, CLWOPF 1CONI +CPHV, CLVCPF ; GNGC , CPVDAOP VZPFU12 CPFRCP VZ G CLWDRICP KOT GRCPUGUFRCVJ T30AF VZ VGRQ OGPVCHO+9 1CONI <3EV/OCFIEONDPCHLW CLUD3P VZPOLF VZ TCKEVEVZCPV ECPVCE/IGKCPV1
 2, J CPV GPV CLWDRICPUPH* OCGLVZCPV [CCT CPGF *WFI Ž Ž Ž IRENIG "G FIKOJAVTOGIRECOLF HOD ŽŽ" VZI IFP / D RGEOPD GCH/CPVIGRGGJOPF VZT UROMBUP/ T/G/GRIGV VZCVRMROGIP VZG 1CONI <3EV/6 CIGCIG* FXPVQ G 9RIP CPF HWIG TGRCLUOF VZT UROMBUP/ J OY RGEOPD GCH/CPVIGRGGJOPF VZ TECIG VZ G 8R/8W, TFRV O/TGRCOPV F1 FGOI TORJ ECLWDRICPUPH* TOGLUCHIGRQ OGPV/FKCDM/AGIOIPOLCP/CPF OCMDM/CPF CLWOF LUDJ, IRECOLU KOT 11U GT . FWDOPX OCGGU/G RICRONCP CHNWIG TGRCLUOF VZ G VZCVRMROGIP VZ G 901CPV; CPVGF SWEDGU; GLECEJ ZUNAGKGRQ CORVIFGTVG* HIDFCIG, CIG* EVOPF 11 CLWDRICPUPH* LWOF 9GT, CRIC1CONI +CPHV, CLWOPF 1CONI +CPHV, CLVCPF ; GNGC, CPVDAOP VZPFU1
 3, J CPV GPV CLWDRICPUPH QM GTRMULHOTOCGV [CCT CPGF *VMMW Ž Ž Ž IRENIG "G FIKOJAVTOGIRECOLF HOD ! IFP / VZI IFP / D RGEOPD GCH/CPVIGRGGJOPF VZT UROMBUP/ T/G/GRIGV VZCVRMROGIP VZG 1CONI <3EV/6 CIGCIG* FXPVQ G 9RIP CPF HWIG TGRCLUOF VZT UROMBUP/ J OY RGEOPD GCH/CPVIGRGGJOPF VZ RKP OVA/ GCGMUV/FGOGV J IE EOGID GEPEODOGEGY/B RICRONCP CHNWIG TGRCLUOF VZ G VZCVRMROGIP VZ G 901CPV; CPVGF SWEDGU; GLECEJ ZUNAGKGRQ CORVIFGTVG* HIDFCIG, CIG* EVOPF VZ G TOIGCHV/IGIRECOLJIP VZ G 901CPV TH CLWDRICPUPH* LWOF 9GT, CRIC1CONI +CPHV, CLWOPF 1CONI +CPHV, CLVCPF ; GNGC, CPVDAOP VZPFU1, J CPV DOPH/AGLUDOTOCGV [CCT CPGF *VMMW Ž Ž Ž TGRCLPWW GGDORICP CHNDM/ QMHDVDSVO OGODGUHOD <3EV/CP/11 VZPF <3EV> PRGUVJF1

/3V G/KENBCT. PFGF *VMMW Ž Ž Ž"

<3EV/11 TGSVIF ECPIVDAOPU
 , CPVDAOPUP TGRCLUOF VZ G
 <3EV/11 TGSVIF ECPIVDAOPU
 , CPVDAOPFGHICPZ GZCJW
 <3EV/11 TGSVIF ECPIVDAOPU
 , CPVDAOPFGHICPZ GZCJW
 <3EV/11 TGSVIF ECPIVDAOPU
 , CPVDAOPFGHICPZ GZCJW
 <3EV/11 TGSVIF ECPIVDAOPU
 , CPVDAOPFGHICPZ GZCJW

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