# Boez - Allen - Hannifton

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5-T V\$LHILK[VPI]PL`VA [VODE). Wa-\$LU4HT P\$WU4V\$DEN/VWWH[PAUZi`. Wa-\$LU W[OL`/VT VMU`/. WHK VNOPILI[WZHZLUPW\$LHKLYZOPMH-UK NO\$M^Z[WROJ\$KLYZH] WY-UWH\$ 9 LL[PENWA][WROJ\$KLYZ[VI L OL\$KH]) +! HŽT ŽI 10@/WU&S #\k#!#\ZIUJ\$ZLK^P[O][OZVW]` Z[HLT LU[ HL`WYWW\_] JHKKUKWY!!#\HWHUXH\$YLWW[ [VZ[WROJ\$KLYZŽ



- "Ž 1\$J[PAUVIVISL]LUKPILJ[WUVT PLLZ,
- #Z > + [#HH-[POUVN]CL HWWR[T LU[ VNYUZ[ ] ENUNSE: HZ NYRKLWUKLU[ YLNZ[LYLK WI S9 HJJNU[RNIPHT NWYDZIHS LHY#! #8,
- \$Ž UJUJI RKRNIHČJEVY ]V[L VU[OLJVT VJUJH]RUUVJANHT IVV/[OL/VT VJUJ GJUHT LK L\_LJ\[j]L VITSJLVZEHZ KRZJSZLK RU[OL/VT VJUJH]RUORZI\ZZRUHJK - UHSZRZ ZJ.[RUVJV[OLVW]`Z[H]LT LU[, HJK
- %Ž/VUZIRLYH[PRUVNHU V[OLYI \ZPLZZ[OH[TH WWWWS I LI YWNO[I LIVWL [OL-UWH<del>5</del>9 LL[PENŽ
- d f\*PBSE PG\_USFDUPSTSFDPNNFCETU BLZPVVMJUF.7: 8SPCPIBVVŽfžfBCE!Ł

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## Boez Allen Haniton

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< VISIRZ VU @F RNNNDX IP 3Y-L[Z	<u>%</u> 。
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- WALKP -	_ ##

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R GQ PG FC

DP9979GGTG = P#CON"(@B) C@B; QCF \*#CON"(@B) F9.97GHC #CON"(@B) 5A.48(B) C@B; \$CPDCFF4:B 9.78GG19 C \*+GG G6G85F-9C = P#CON'(@B) 5A.48(BCF9.97GHC #CON'(@B) 5A.48(B'B)/ G FDF-A.5HVDDFF1-B; 7CADEHVEBS5K < C@MOKB93: G 6G865HVIC #CON") C@B; 7CF6//K F91  $^{\circ}$ C F3 1  $^{\circ}$ 1C08=  $^{\circ}$ U 7CF6/  $^{\circ}$ C4

#### /; C@ (; @

?[\V]ROJ\$\$LYZHZVIV[OLYL)VKKH-[LTH]V[LL\$J[WU9H56H][OL]PI[\H5TLL[RNVY]V[LRUHK]HUJLI`Z\ITR][RNHVW\_II` SSILYLLILILS.WOWLLLWYT HEHZINGS/^Z+







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3G+D7CLIVID+97CA

MI FDRUMST8

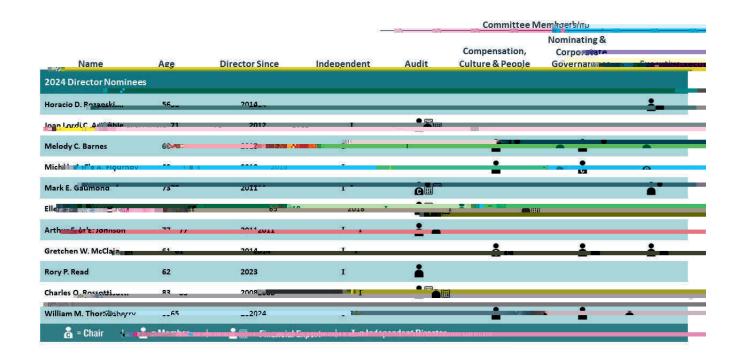
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  - \*%&Ž T 1990U [OKANO [OL YLVWYOHZL VIV/\$Ž&T 1990U ZOHLZ VIV/\$HZ JVTT VU Z[VJR 1^090 RJJ\$.KLZ \$Ž#T |\$\$\$\$U\XX\$\MAUT |H\RL|; ZO+YL YL\W\MO+ZLZH-HZ^L\SH-Z! Ž\$T |\$\$\$0UZO+YLZ|V\JV|LY[OLT |REF7 \T Z[H\\[V\] ^ PRODUSTRINI[H LZVUYLZ]VBPLKZ]VJR\UPZ[O-F]LZTLK VU] HIPA\ZKI-FLZK\YRN[O\_VMAPK\Ž
- k @OL. VHK RUYLHILK [OLX) HI[LYS KPIRLLK \*" INV VILVINIT HUIL RU [OL [OPK X) HI[LY VI VIII]HS` LHY #! #% VIII H S. RU [OLIMAYOX\HV[LYVVVZUHS LHY#! #7Ä.
- K ONRNITZUHS LHY###&WYZ[VJRWBLRUYLHZLKI`HWWZ\_FTH[LS'!"E^R[OH[V][HSZ[VJROJ\$KLYYL]\YJJWVI HWW IT HLS ' \$" Ž

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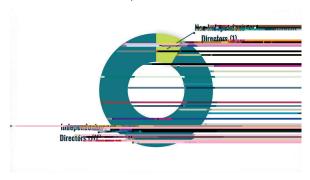
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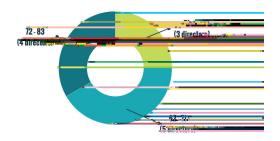
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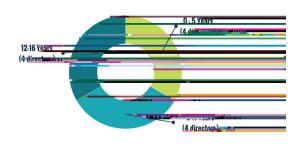
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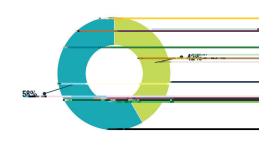
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- K CLWW/IRLNWHTHOMP ] V[RENZ]HUKHKINEWYI `SHZIW/[O.LSJ]RUUWWRHJ[WZINEWU]LZ[LKLSJ]RUUZ-^RFO [O.YXNPLTLU] [O-] HU RUNTILU[KHL][WUVTRLL ^O/KWZU(YJLP]LHTHOMP WY[O.]V[LZ]HRS JHZ[RHU

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- K ZYWYLK PUNY##\$ 1?3 >LWYE^L JVTTPTLK PU##' [V H SUNCYT [HNL[ WULFEW NYLLOAZL N-Z
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- . LSV HLZLSJ[YJLL[H] HKKLZPLH]PUZHLKHJVSKLZ. Wa-SSJJOHZYJLPJLK+
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- k &H::60x9F9Z\*CV3KZ9VZ[1[09H5/VTVMURZ\*iNY[00JVUZLJ\[]]FL\*LIH/\*
- k '*0769G*-TLV9HZ'. LZ[1TV\$VLVZIW/BL[LY+U9E'. LZ[3+NL1TV\$VLVZEHK'. LZ[1TV\$VLVZIW/OPLYZP'
- k 'CHIB9, 5,5 NB937, "CW\$KZ 9V2[-KTPLK/VTWHUPZ" | [CP[LLU[O JVUZLJ\[P]L `LHV" HUK-TLYBHZ "9V2[" \$LUV|HPL/VTWHUPZ"
- k (@GBOOFG. LZ SHLZ VC WR INV#! #%
- k *"B1904F00#1 GB936754*04". LZ[ 1?3/VT VMURZ"
- k , -49-57-VIDO C972 "@MV"! 9 1997-17 ?WAZL 24PLUS 1T V91/ LV2E , -49-57-VII-A 9G ". LZ[ NW BL[ZE HLK 3-59-07-V) 98-56 "@MV"! 9 1997-17 24PLUS 1T V91/ LVE"
- k 9KOK99972 "9 VZ[@KZ[^W[O /VT WHUPZ PU-T LYBH#!#\$E` "-T LYBHZ 3YLH[LZ[CWRA\$HJLZ NW OP]LYZP #!#%E "9 VZ[8V]LK CWRA\$HLZE` "-T LYBH\$J:3YLH[LZ[CWRA\$HJLZ NW >LT V[L CWRE` "-T LYBH\$J:3YLH[LZ[CWRA\$HJLZ NW -YKLUZHLK 2HT 19DZ#!#\$E` HLK "9 VZ[@KZ[^W[O /VT WHUPZ PU-T LYBH#!#\$"
- k *Offsaa Bhe* "!!! . LZ[/VT VMURZIN/C WRRN<hLU[Z]
- k 200% DEHA 92HC +560FG# #\$ 451BL[Z<\$FIRAT 9LKH\$RU-^HK~
- k 20'-9KG 4078/900772". LZ[/VT VMURZ[VC VR2]Y
- k 20' 1035/VZ"-TLY9HZ/\$7 HL8LHKLYZ"#!#%

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IMAVULY LHY[LYT Z HUK \U[BS[O\_LPY Z\.]]LZZMZ HIL L\$\_J[LK HUK X\HBNZ AU\$ZZ ` \\ RBZ[X][ \Z VU [O\_L WW\_` ]HHK [V ]V[L
KRIZILU[St^L ^BS]V[L ZRILUKYL[\YLLK WW\_PZ 2, > [O\_L\$\_J[RUUNIX.]OUXT RLLZZBJIMAHU YLHZWUHU UVT RLL\_JHUW[ W
^BSUM ZLYIL HZHKRL][Wt^L T H ]VIL ZJOWW RZIMMTO\_L\$\_J[RUUNIZN] ZIP\[L UVT RLL KLZRILHILKI ` [O\_L VHKZ

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AHU8NKP/Ž-TIS.

9ZŽ-TIS. ^HZ [QL 1\_L]\[];L B9L <\LZRLU[LZRHU]L NM [QL -TL\9HU 1\_WLZZ /VT\MU NWT 9H #"" [V QL]LTILY#""LHUK H\$W ZL\]LK HZ IPZ 1\_L)\[];L B9L <\LZRLU[ HUK /WWM-[L /VT\V];WSL\Y IWT QL]LTILY#!!\$ \U[S 9H #""Z <\RW [V QRIZRLU[ HUK /WWJ-TL\9HU 1\_WLZZ \VT\M] FULYL\S1.\[] PLLYL\S1.\[] PLL

8SOCIOEVIDO/CELPCT VIOCTIT-YCESFODE BCE 7U FS, JEFODPSI JCT CFIEI

, JEFDIPS

9 BOS - Ž25 NVV

9ZŽZSA YUV EZJVINA UKLYHUKTHUHNENNAM(ULYVACELZ[1\_LJ-K]EZVAZŁHZ[YH]LNB HK]EZVY
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#### 8SODCEVIED/CELPCT VIOCFIT-YCFSFODF BCE 7U FS, JSFDDPSI JCTCF1121

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9ZŽ&^L[] OZZLÝJLK HZT HUNRNYM(ULYH] /HUM. «NE[ /HM]+S89'EHURJLZT LL[ INTINO) ZRONUULHS ZJHN. ZUJPSJLLĮN Y.ZZZRUL #! "8Ž <PRY[V [OH] WZJPRULIWIT #! "! [V#! "8L ZO. ZLÝJLK HZT HUNRNKPLJ[WHLK OLHK WMZŽŽ 3VJLVUT LLĮ HUK SINHŽĮNJĮN L INW. 9; /HM]+S 9HRLĮZŽ «NRY [V [OH]E 9ZŽ &^L[] ZMALĮ T WL. [OHU #! `LHZ H] 3/3KT HU ?HJCZ ZMUPSRENIRI HRVVVĮ RINHŽĮNJĮN L INDHUIRNET VZĮ YLJLLĮS ZLÝJRNIHZ OLHK WMĮOL WM SP ZLJ[W[YHLZWV[H]RUNNA MIHUK WL]RNA ZS HZ OLHK WMĮOL HRVVVĮ INDHUL NNA WŽP ZŽ &^L[] OHZ ZLÝJLK WU[OL I WHK WMRLI [WZ WM Š]. SL 1: -?O-=+68Y ZRUL # ""E^OLYL ZOL JOHYZ [OL 3V]LVHUL HLK: VT RHIRN VT TITĮLLEHUK HZ @LHZNY WU [OL UWWWM]! I WHK WM [NZ]LLZ WWOSKYLUZ - RK ZRUL # "\*Ž?OL JN YKLŲS ZLÝJLZ HZ H[NZ]LL WUZL]LY SUMUMMĮ! I WHK Z HUK HZ LT LYJH [NZ]LL WVC LZŠLYU ALPLYSP HLK [OL. YLH&L" ?JOMSE OH]RN WL]RNA ZS ZLÝJLK RU JOHY HLK SLHKLYZORWWZJPRUZ WU [OL I WHKZ WV[NZ]LLZ WWI V[O HJHALT B REDĮP, [RAUZ

#### /**OHS**Z; **Ž>VZZ**/**II**P



9 \redright >\redright >\redright \redright \r \WZ**IPPUŁ9`V**Z>\ZZ\J[PPLY]LK HZ[OL/VT T IZZPULY\N\YOL\$\[L\UH\$>L]LU\L?LY]PL\WYT<sup>\*</sup>" [V#!!#Ž9\Ž>\ZZ\][PJVINALKLK-TL\BHU9HLH\LTLL]?Z[LTZLSJ\ŽHUR[L\LHR\L+S I\ZRLZZHKRIVATHRU[LJOUSAN JVUZ\\$RNINT RU"\*(!Ł^OL\L OL ZL\JLKH]H\R\Z - \KP\\\TTP\LLEHUK HZHKPILJ[\Y\M\]\_PRLYZPUL 9 HVO# #%9 YZ>\ZZ\[[FYMYT L\S ZL\]LK HZ HKPLJ[WVVP LY1958 UIO / VŽLSJŽIWT #!!%[V#!)Ł. HLR VMT LY9H/WWY-[PAU IWT #!\* [V#!"\$Ł/VT WZLHZO?V[Y) HL? Z[LT ZIWT #!&[V#"!ŁC HS?[YLL[ SZ[I]].[L TWT #!&[V#!"!Ł-WSV3SI HSWT #!' [V#!"#Ł=\WXT 9HLHNTLL[?VS.[RUZ.WVT #!"! [V#!"%L/HSS.?LSJ[@XZ[NVT #!"%[V#!"&L<\FF HBZ 2RHJIPSIWT #!"" [V#!"8L #!") Ł^OLYL OL ZĹŶJLK HZ/OHPT HŮ VN/[OL I VH-K NWT #!"\$ [V - WP\$#!") Ł/VH\$WL? Z[LT Z **5.JŽVW**T: VJLTILŸ#! "&\U[**156**.S#! "\*Ē: VJL[[H?**V.S.[P3UZ**987 **VW**T9HÚO#! "'\U[**15**#.#"Ł ALEXU / WWY-PRU NWT - WIS#! #! [V - \ N.Z] #! ##L HLK - JLS.Y-LK 8.HURN 5JIŽ NWT OLJET I LY#") [V 21 KHY ##\$29 VZ-VZV[[P-52/ZLY]LZHZHKPIL][WVVXMMR[OL 6AYLL`E ^Q.Y.Q.JOHŘZĪQ.QLĪLSWVLUĪ/VĪTHĪLLŽ

- NL+) \$ OPILITWZIEJIL+#!!) **EKLYNUKLU** 

\$CAA #1199 k -\KP

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- k 1\_vvv(rzl.re)met-ujll:met-ujrsk.vvv(rent)vt værujl huk.jvu(vvsl:huk.nsv hsi \zrelzzl.z,
- k √I S9 JVT VMU KPLJ[V/ZORWUK H,KP]JVT T P[]LL L\_VM/PLUIL,
- k
- ; WAYTENHUKT HUNIT LU[ L\_WARUIL, AUKLÆ[HUKENWAM] LYUT LU[ JVU[YY] TEN HUK k
- k /WLI\ZPLZZZRSZLPJS.KPNINH-UJPSI-LKZ[Y-[LNP VSHJLPNŽ

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- k ; WANTENHUKT HUHNLT LU[ L\_ WANEUIL,
- k ALKLY[HKRNMMM]LYUT LLU[JVL[YH][PEN]
- k /WLI\Zelzzzrszleus.krentreluipsi-lkzty-tlnp/wylurn hlk
- CLLVXUKLYZĪHJKRENMVINY/VT VIJU ŁIPZCIZĪVY ŁHJKJNSNYLŽ

#### , JEFEDJPS

## **ESCOCENIED/CELPCT VIJOFIT - YCFSFODF ECE 7U FS, JSFDJPSII JCTOFIZI**

#### CENT 9Ž@OWULW



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9 Y @OMILW YLWZLILK [CL." \$[OKZ]YP] WW. JERU [CL. AŽŽANZ. WALWZJLJHJPLZ INVT 6 U.H.Y "\*\* & \UJB 6 U.H.Y ## Z 4L ZJJLK W [CL. - YT LK 7.1]PLZ /VT T PJLL [OM NOA] CZ [FT L PU/VLWZZZ-^HZ PZ/O-PYT HUNWT 6 U.H.Y # "& [V 6 U.H.Y # "\*ŁHK I LJHT L PZ >HUREN 9 LT I LY PU 6 U.H.Y # "\*Ž 9 Y @OMU LW HSD ZJJLK W [CL. 4N.Z. SJLSPALUIL /VT T PJLL NW"% LHZ HUK JO-PILK [CL. / I LY@-JR 2 WL PU # ""Ž 4L WL]PN ZS ZJJLK PU [CL. 7]-[L CL.WH[T LU] K YEN [CL. >LHN-U - KT PZZY-[PNULHZ 7]-PKWU / HMP S4PS. HUK WHJ[PJLK \$1\* PU - T HMSM-2 \_ HZ 9 Y @OMU LW 3 NT PS CHZ I LLU Y-UJCEN PU @\_HZ ZPUL ")) "HH NT PS I \ZPLZZ PU ^ CDO CL. JUL[PA LZ [V VM [DPMH]LŽ 4L. J\YLU[S ZLY]LZ HZ / O-PYVN[CL. VHK VNOPIL][WZ VM 2 NM 2 NEL [Z 2 U.Y-B-5]JŽ

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@Q\_\_. WHK NLLY+S CASZ IMAY YLNS+YT LL[RIVE VMY`LHEHLK ZAMIPST LL[RIVE HE ULJLZHYŽ@Q\_\_. WHK T LL[Z RU L\_L]\[i]H\_ZIZMUK\YRNLHOYLNS+YT LL[RIVE VMY`LHEHLT LL[KPL][WEHEN/[`VAPHSS T LL[RUL\_L]\[i]H\_ZIZMUEK\YRN LHOYLNS+YT LL[RIVE/WAPZ[LL[^R[O]C\_/VT VMU g/\WWH[L 3V]LYLHUL 3\RTLSRLZH9HR1Ž3H\T VUK^HZHMWR[LKI`[CL\_UWLT HLHNLT LL[KPL][WE [V ZLY]L HE [CL\_SHK SKLWWKLL[CPL][WE LIMMI][I]L HE VM[CL\_##%-UNHS9LL[RIVVIX]?\WROASLYZ@O\_SHKSKLWWKLL[CPL][WAZYZMWAPSPRZRUS,KL+

- k włarenyjlylju\[ijkazaruzw[oluwithuhltlu[krij[wzhukwlarenariol/ohrizhalu[ah]. whk tli]enz
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- k WW/RRENREW/[[V[QL/Q-PYVU[QLX\HL]]P EX\HSP HLK[FF LSPLZZ\NRIWNT H]RUWW/RLK[V[QL | VHK,
- k JHSBNHLKJOHRENT LL[RENZVN]OL REKLVMUKLU[KPLJ[VZHUKHVMZRN]OL/OHPVN]OL RZXLZJVUZRLYLK,
- k Z.  $\frac{1}{2}$  RNH-Z [Q. SPEZULI L[^LLU [Q. RKLVMUKLU] KPILJ [WZHLK [QL./Q-PYHLK/QPZMLLJ\[P]L; MSRLY, HUK
- K JVSH WHIRN^IPO[OL-\KIPL/VT VALUHIRALE/\\$\YL HLK <LWAXEHUK: VT REHIRNHUK/WWWHIL 3V]LYLHUIL
  /VT T IPILLZVU [OL VANNAT HUIL HLK Z[YJ][\YL VN[OL. VHK HLK IPZJVT T IPILLZERUS.KREN[OL VANNAT HUIL VIVI
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@QL. WHIK HUK PZJVTT PZLLZLZJH SZOHUJ HSJHSLUKHZ WAHIJAPPEZ [V NJ.REL [QL. KL] LSWV LLĮ WAJQLAYHNLUKHZ KN VENI [QL. LHŽ-SKRYL] [WZHYL POJ PZLK [V WWWZL HNLUKH] [WBZ ^ QLU [QL. HUJ HSJHSLUKHYZHYL LZJH SZOLKŁHZ ^ LSHZ POHKJ HUJL WALHO YINSHY. WHIK T LLĮPENŽ SJ HKKIPPUŁ KPYL] [WZ HYL. LUJVN YHNLK [V YHZL. [WBZ [QJ. HYL. UV] WU HT LLĮPENHNLUKHWY ZNNLZĮ [WBZNWYN] YL HNLUKHZ 1HJOKPYL] [WEZ WWJ RCLK ^ YHZ] LUT HJLYPSZ POHKJ HUJL WAZHOT LLĮPENŁHUK [QL. WHIK HUK PZJVTT PZLIZZWWJ RKL NAZI HJR [WŁHUKT HRL YZNLZIZZWYT HUHNLT LUĮ HJ LHOVNYQLPYT LLĮPENZŽ

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CPLIVE HL L\_VAUILK [V HILLK LHO. VHK T LLIENL LHOT LLIEN VAIO. JVTT FILLZ VU ^ CBO [CL.` ZL.] LL HLK [CL. - UN H59 LLIEN VAII [VIROASCLYZON YEN INDIHS: LHY # # % [CL. VHK CLSX ZP\_T LLIENZ HLK HILLK I.` ^ VFII LU JVUZL LIŽ 1HOV VI VYBUNT I LLI KPLLIVZ ^ COZL.] LIK HZ HKPLLIVK VBNINDIHS: LHY # # % L\_JLV // 9 YZ ACUZVLZHILLKUK H\_SLHI (& VAMULU VVI [CL. HNNLNHL [V]-SUNT I LYVAN VHK HUK JVT T FIILL T LLIENZ [V ^ CBO [CL.` ^ LYL HZZPLLKZHUK V] LY SSHILLKHUL ^ HZ \* & VAMULIŽ-SKPLIVZ ^ COZL.] LIK H\_[CL. [FF L VANIN Y # # \$ - UN H59 LLIEN VAI [VIROASCLYZHILLKUK [CL-] T LLIEN Z

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- k "18+\$CAA+1199-@OL-\KP/VTT1PILL12YLN\\$+\$\Md-[LK1`[OL/OPLV&N+5; MTMLYE/OPLV[OPZHLK/VTVTPULL; MTMLYEOPLJ[WVN\\$[LYL+\$-\KPPEHLK/OPLV&NATH[PAU; MTMLYEHLKYLLI]PLZYLN\\$+YYLWV[ZJVUJLYURN[OLZ]-[\Z VN\[OL/VTVHU ZL[OPZHLKJVTVTPULLWWN\HTPRILYUHSJVU[WZV]LYMTHUPPSYLWV[PANHLKV[OLYWWN-[PAU+5 JVTVTPULLHYEHLKZPULTTHHL[JVTT\UPH[PAUZNWT [OL/VTVHU ZYLN\\$-[WZZ@OL-\KP/VTT1P]LLHSZV\$LHZ [OL.VHKZLMTM(Z^POYLZWJ[[V[OLV]LYZPNO]VNT1LYZJ\YPYYZPZ
- K \$CADBCH£B`\$I @IF95B8. 9DD@\$CAA#II99-@OL/VT WUDHIRUE/\\$\YLHUK <LWYL/VTT IP[LL IZ YZWUZP\$. IW/V]LYZLURN YZBZ YLSHLK [V [OL/VT WUD Z OXT HUJHWIH-ST HUHNLT LU[ HUK L\_LJ\[I]PL JVT WUDHIRU WSPRZ HUK WHJ[BLZŽ
- k CA <del>2012</del> 528\$CFDCF549(CI 97852879\$CAA \$1199</del>4@L: **Z**L\$L

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Number of Meetings in Fiscal 202	N. O.	- υ	4	- <sub>5</sub>	4	

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; \Y1\_L\[PL/VTTP]LLEYLZAALØP\$LHTVUNIPZV(OLYK\[PEZHLKYLZAALØP\$PPZLVA/HZZZ[PRNKY. VHKPUN\$BBPNIPZ YLZAALØP\$PPZZ; \Y1\_L\[PL/VTTP]LLEYLZAALØP\$. INVHANAJPRULY[HDIL\_[YHAKRHY JAWANH]. HJ[PAUZ@OL J\YLL] TLTILYZ VANAY 1\_L\[PL/VTTP]LL HLOVŽ?OHKLY I/OHPK 9LZZVZ 3HATVUK HLK >VLHURRE HLK 9ZŽ 9QV 9 9 JVT T IP[] LL INDH-UJIPSL\_VAA(j | HZZJJO[LYT IZKLINDLK \ UKLYSJLT % ( IKA &/ VAALNA S-[PAU ?! 7 VAVT \ SH-[LK \ UKLY[OL ?LJ\ \VPPZZ - J[ VAT\* \$55LHZHT LUKLK I [OL `?LJ\ \VPPZZ - J[ //Ž

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ALKLY[OL/VT VMU Z \$50RLY@HKRN<\X99`E[OL/VT VMU & VMXXVLLISHL VMXOPIĘLK RWT KPLI[S W REKPLI[S I\`RNE ZL\$PLVMYMĘDNZL)\YĘPEZ VNĮOL/VT VMU ^OB. RUWZZLZPRU VNYI HĮLYPSUJUVMI HĮRUJVUJLYLRINĮOL/VT VMU W RZ ZLJ\YĘPEZ L\_JLVĮV RU [OL \$7 RĮLK JPN\T ZĮHUJLZ KLZJYPLK RU [OL W59`Ž - KKGPNU+SS-E [OL /VT VMU & VMXXVLLLS HL VMXOPIĘLK RWT LLUHNRIN RU IP ZOJNĮ ZHSZ VNZILJ\YĘPEZ VNĮOL/VT VMU ŁIPP [YHLZHJ[RIUL RU W[ZLJHSZLW V]OLYKLYPH]PL ZLJ\YĘPEZ NĄTOL/VT VMU ŁIPP OLKNRINĮYHUZHJ[RIUL ^RĮDYLZMJ] [VZLJ\YĘPEZ VNĮTOL/VT VMU ŁIPP OLKNRINĮYHUZHJ[RIUL ^RĮDYLZMJ] [VZLJ\YĘPEZ VNĮTOL/VT VMU ŁIPP OLKNRINZIJ\YFPEZ VNĮTOL/VT VMU HZJVS-FILYHSIVMYHSHUŽ

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CL HKWIIK H^YIJLU YLSILK WAZAU [YHUHJIRUZ WSD` WAZHU [V ^CBO YLSILK WAZAUZ UHT LS WYLLIV]IJL ^IBJ T LTI LYZHU WJ WZMIZ UHT LS WYLLIV]IJL ^IBJ T LTI LYZHU WJ WZMIZ UHT LS WYLLIV]IJL ^IBJ T LTI LYZHU WJ WZMIZ UHT LS WYLLIV]IJL ^IBJ T LTI LYZHU WJ WZMIZ UHT WZMIZ WZM

## **\$18@0"1>?**;: **&>:?-/@**5:?

### **15**+, 4590(; **26**5°. 9, 4, 5:

CLOHLLLILYKRIVRKT URM-IRUHNYLT LLIZ^IROLHOWN,YKRLIWZHUKLLIVIJL WWX.HLI [V^OBO^LOHL HNYLK [V RKLT URM ZJO RKPRVHZ HNHRZ JLYHD \$PI 189PZ HMZRN W. WWX.HJ PL HZ H KRLIW W WWMLY WYO. VT WW HUK IZZN ZROPNRZZ @D. RKLT URM-IRUHNYLT LLIZ WWJ RL W YKRLIW ZHK LLIVIJL WWMLYZ ARONGZ [V [OL RKLT URM-IRUHK LLIWAL HK] HUILT LLI YRQZ WWJ RLK VUKLY WYI `\$-YZ-HZ ^LS-HZ JWLYHJ [N-SYRQZ [V HKQPN-SPKLT URM-IRUHZ WWJ RLK RD [OL RKLT URM-IRUHNYLT LLIZZ

## ž;/,9#,3;045/O:

9 P.J.O.\$ @O/T VXXVLEHU - ZZJIPP[LH] [OL/VT VAKU ELZ [OL ZXU VIVISZEH L[O @OVT VXXVLEHU 1\_LI\[]P,L EEPL < YLZRLU[ŽISJINZUHS `LIHY#! #% 9 VŽ @OVT VXXVU YLILIPJLK ""\$\$!!! POI HZL ZH\$Y E YL[PILT LU[ JVV[YP\[PRUZ VIVI(E\*#%EHUK HU HY HK VIVI"!!! Ž 9 VŽ @OVT VXXVUHZV VAKIJENPAMIZ POJOL/VT VAKU GZVJOLYI LULINPIVVANNHT ZVUJOL ZHT LI HZZ HZVJOLYLT VSV LIZH [OL ZHT L \$.] LSŽ

TT IS < NAPAJEH ?LURY / VLJ\\$H\_U H\_[OL / VT VMU Ł IZ [OL KHNO]LY VNORT < NAPAJEHU 1\_LI\[P]L BBL < YLZRLU[ HLK < YLZRLU[ VN[OL / VT VMU Z : H\_ROU-6?LI\YP ZLI[VYZ 55 | NZUH6`LI+Y # #% 9 ZZ < NAPAJY YLJLIPLK ° "! %\*(" PO I HZL ZH-5\*Y ŁYL[PLT LL[ JVL[YP\[PRUZ VN' !L]) Ł HLK HU H` HK VN' %! Ž 9 ZZ < NAPAJY HSZV VM[PRMA[LZ PO [OL / VT VMU & V[OLY I LLLT]! WMNYH ZVU[OL ZHT L I HZZ HZV[OLYLT VSV LLZ H\_[OL ZHT L S.] LŠ

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- [. Wa-SLLEWYWWWZLEZ[VLT W/LYWWWZ[VJOHUNL [OL ^WSZ; \YSLHKLYZORWQISZXWO HLKWH[ULYZORW\\$\YL HLINAUK-[RU-5[VO/^ ^LKY]L[Y-UZIVIT H]RUHUKNARLWYMAMZ[VZAŞLWYJSEU[Z'[WND-Z[JO-SAUNZŽ
  - ; \YL\_LJ\[j]LJVT VMUZH[PRUZ[YH]LIN IZ\UR\LS KLZPRLLK[V+
    - k olsplyjvt valifipljvt valst-[rou[rek [v salva[lyt z[v)roasly] hs.l.jylh[rou]
    - k [[YH] HUK YL[HD][WW[HSLU] NWT HYWZZ [QL NSM HST HYRL[WHJL ^OV ^ ISSUVL[IDAL [V WWW.IS\ZNM^HK NW [QL M/YL,
    - k 9V[j]H[LHKYL^HKL\_LJ\[j]LZ^I[OL\_JLV[IRUHSH ISI] [VT LL[HKL\_JLLK[OLKLT HKZVNN\YJSEU[Z
    - k 5.1V/L HUV^ ULYZOP/T PKZL[ [VI \PX Z\Z[HP.H S. NW^ [OHLK] HS.L, HJK
    - k >LRIVMLWYM(ULYZORIZ) \$.J\\$\YL^QBOKRIZKLU[P](LZWYH 198) [VJVT L [VT HKL] HZHURZ[P]([RUY-[QLY [O+UHZ/RKY]R\\HSZJYLH[L\HSPUT LU[VUV\YZ[YH]L\N\ZVIPAY]RZHUK HZZJIP[LKRJ|LZ[T LU[ZZHUK LUJV\YH\L\YH\WK

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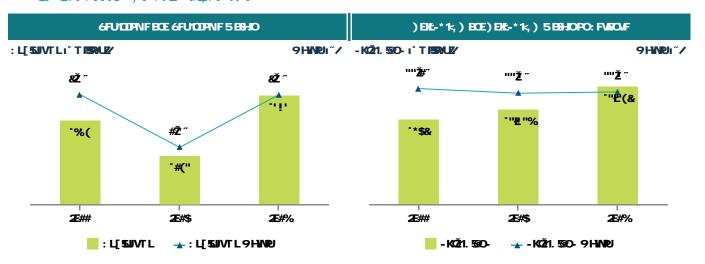
5 BJU FX ) Ł+B10FSPCF 3STILOF 5 BSJO) CEFSIPO



2/EJJ OŁ, PUPO



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- k 2.55 LHYL] LLJAL RUYLHYLK" 82#" [V°"! Ł'"Ž T FSRUŽ
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UHTUKL\_L\[P)LVTMLYZL1\_L\[P)LBBL<\YZRUL[ZLHK?;LURYBBL<\YZRUL[ZL[V]VVZRILU[ZL[V]VUZZ[LU[SH][P)[QL|LZ[P(LYZ[ZVV[QL /VTVMUZ; \YL\_L\[P]LJVTVMAZH[PQUWMNYHT EZPE[YPZBHSS [PEK[VVXYWWAZHK]HSLZZ

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. HZL ZHSVY YLWIZZLU[ZHYLS-[P]LS ZT HSWW[PRU VIV[IOL [V]]-S[HWL] L\_LJ\[P]L JVT WALEZ-[PRU WWW[\U]PRZ HLK WW] PRLZ [OL PP\_LK JVT WALLU[ ULJLZZHY [VH[]YH][ HLK YL[HRUL\_LJ\[P]L [PSLUŽ@OL ZHSHY WARK [V LHOVNVI\YUHT LK L\_LJ\[P]L WYRRLYZ RRIPRIHS LHY# #%ZZZL[ WW[ORR][OL []H S. I LSV^ $\tilde{Z}$ 

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## ~55√(3°(:/f57,50)

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[HWL[ HUXHSRULU[PJL HT WU[ NWWYUHT LK L\_L]\[PJL WYDHLYERZKL[LYT RELK LHJO\*LHYI \* [OL /VT VMLDH\_[ROUEV\\$\YL HUK
<!WWL/VT T PJJL I HUKWU[OL T HRL[ HUHSZZHUKYL)VT T LUKH\_[ROUNWYYJVT VMLDH\_[ROUJVUZ\\$HL[ZHZ\*\LSHZVN[OL/1;
IRD[OL.]HZ\_WWHT LK L\_L]\[PJL WYDHLYE\*\OV]HLKPKJ[ YLWW]Z[V[OL/1; /Z

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\$19H # #%[QL /VT WWHTRUE/\\$\YL HUK <LWW /VT TP[LL YL] PE^LK HUK JLY[MPBK [QL WWWNT HUIL YZ\\$Z VN[QL WWWNT HUIL] HZLK >?AZ NH-U[LK PU &S # #"EHWBPH \$ NW [QL NZH-6" LHZ # #### #%\WWWNT HUIL WWRWEHN-RET [QL [HWLZZL] H [QL I LINDLENNNI[QL [OLLE] LHYWWRWEĞQL NM-82 PU\$KLK [^V NZH-UIPFST LLYBZE/\T \\$- KQZ[LK QZ]LK QZ]LK QZ\[LK ]HWLPSZ [H [QL I LINDLENNNI[QL [OLLE] LHYWWRWEĞQL NM-82 PU\$KLK [^V NZH-UIPFSZ]H-ILND NM-82 HZWJP[LK ^FQ WYJVT T PPT LL[ [V KPLYZP ELX\P EHK PU\$ZPWLĞQL ZL UWHZH-UIPFSZ]H-ILND NM-82 HZWJP[LK ^FQ WYJVT T PPT LL[ [V KPLYZP ELX\P EHK PU\$ZPWLĞQL ZL UWHZH-UIPFSZ]H-ILND NM-82 HZWJP WWJLT LL[ PUWYLT WW LL L\_WWPLUL Z\]L YZ\\$Z HUK [QL KPLYZP WWWY WWWLZ\XJJLZZWS HJQP]LT LL[ WWIHJOUWHZH-UIPFSZ]H-ILND NM-81 \ [QL LLK WV[QL [QLLE] LHYWWWWT HUIL WWPK JW\\$X YZ\\$ PUHKKFPUH-8 &" \VZRC | Z WWW\LD WWHZHOUWHZH-UIPFSZH-82 YZWW][PLSEJH5\\$-[LK HQLYWWWT HUIL WW-[QL NZH-UIPFST LLYBZO-Z I LLUHWW]LK HUKJLY[PRZHZ

. HZLK VU PZ HZLZZT LLĮ VVIVĮO NRH-UIPSHUK UJU INBH-UIPSZĮY-ĮLNĐ NJ-SVANVAT HUILLE [OL /VT VALJE-ĮRPUL/\\$\\YL HK <LWKL /VT T PPĮLL HAVAVĮLK H NRH-S VIM V. [VAM LU Į-NL NAY [OL &S # #" VAM ANT HUILLI HZLK >?A HY HKZ INBUHS`LHZ # #### #%VAM ANT HUIL VAM KV VIV! & VIM HVLĮŁ PĮO HJ () HS NRH-UIPS VZ V \$Z HLK [OLZOJSKŁ [HNLĮŁ H V]L [HNLĮŁ HLK T HJF \ T NJ-SZ VZ Z LĮLK PU [OL ] H S. I LS/Y Ž

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-ZHNJLYJT LLJ JVLJYHJVY-L HL ZI QJJ [VHWBH \$. MKLY-5ZJ-J\] [LZ HLK [Q. 2KLY-5-JX IZFROU >LN.\$-[ROU i 2 > k \ ^GPONJLYJ [Q. YLF I \YZLT LLJ WANZZI ` WYNJLYJT LLJ J\$PLJZ \\ \YZ\YLJ [V] [Q. 2 > WYJVLJYHJZ \$F PP [Q. H\$W H ISP WANZFI \ WLT LLJ IMYJVT WALZ-IRDU [VJLYJ-RPLW PP ZAT L J-HZ J-HSLT V\$W LLZ-PRJSKRONWYU-T LK L\_JJ\] [PJL WADZ-YZ-VH I LUJOT HR JVT WALZ-IRDU JHWLZ-JH \$ZQLK LHJO`LHYI` [Q. ; IMBL WVP HLHLT LLJ HLK . \KNLJ i; 9. ZC QQJ JVT WARDN JVT WALZ-IRDU [V [Q. I LUJOT HR J-HWH-S- + HN.Z-Z-HS-Y-LI WWZ Z-KLIWWLK JVT WALZ-IRDU-HLK LT V\$W LYJVLJYP\] [PJLZ [V KLIBLK JVLJYP\] [PJU WALZ-PRIJU Z-W[Q. `LHZ-PZ-Y\_JVKLK PP WY I WRZ-HLK YLJWKZ-T \Z] I L PJSKLKZ-U HT W LZ VJLY [Q. J-HW-HL JVLZ-Y-KLY K \ LH-S-Y-H \$. HLK HL [Q.YLIWL UJ YLJVJ LYH \$. \LUKLY WY NJ LYJT LLJ JVLYHJ[Z QQ. JVT WALZ-IRDU-HWZ-JH \$ZQLK I ` [Q. ; 9. Ł^QDODZ HWBH \$. [V HWW]PJU WWWY JVLYHJ[Z NW [Q. # #%]H\$LUK-H' LH-KZ " '%-P! I Z QJLYVLYHJ[Z Q-J-L QRQLY]HWZ-HUK WWSF PP [Q. H-SW-H \$. JVT WALZ-IRDU-WWW-LYLT V\$W LJZ"

## +PNCFOBLPO: FDPVIBZ 85PVIIPOT "+IBK CED.TI

THURTON JS-1 HIR WASP REHJUNGHURL A FOO? LITENUT! O VANGE TJOHUNE - JE HUK ? LITENUT \$ \$ Z\* SATINGE : E?1 82 LK /VT VALU 9 HU HIR (LE ) \* VT VALU 1 HIR (LE ) \* VT V

CLHSOVOHLWWJEZPOUZPUNYRUJULIJELWYLZ[OH] WWJRL\Z^RZO[OLHRSP [VFFWZL [OLIWANZ]NYLWANJULVZLZHUK LXNP JVTWALZHRUHUK [OLYJV]LY WWLYHRUI WAZHTWUZHUKNHRZIWYT LXNP JVTWALZHRUHNHKLK\UKLY[OWZL WYYUZZAJONANZONYZHUKYLJVJLYRZTH WJNYA

- k PU[OLL]LU[ WNHUHUWU[PUNLZ[H]LT LU[ K\L [VT H]LYPSUWUVT VYPUIL ^HOHU MYHUIPSYLWW[PUNLX\PILT LU[Z \UKLY[OL ZLJ\YPPZ\$+7.Z^HOYLZWU] [VPKH]PK\HZ^OVPLW^PUNG WNWZZS ULNPALU[S LUNHALK PUT PZIVUKJ] W PLW^PUNG WNWZZS ULNPALU[S IMPSK[VWL]LU[ [OLT PZIVUKJ]Ł
- k ^f(O\LZ\M)[[\VBKP]R\HZ\Z\I Q][[\VH\[\VT H]B \M\MP\\L\\UKLY?L][R\U\$! %\M[\D.?H\ HLZ\; \_\$`-J[\V\V!!#LHUKL
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## - (SEDLPG) DEPVOLICHBEE «BY «FEINFOLPO+PNCFOIBLPO, FDTIPOT

@QL\_/VT.WALD-[PAULY\_\$\YL\_HK\_<LWKL\_/VTT P[]\_L\_O-Z NWT [FTL\_[V [FTL\_JVLDFRLYK [QL\_W[LL[PSFT WAI] WVTL)[PAU "" #T/WALD-[PAU "" #T/WALD-[PAU "" #T/F WALZ HSF P[ W [QL HT W U WANN-T Ž?]\_[PAU "" #T/F WALZ HSF P[ W [QL HT W U WANN-T WALD-[PAU "" #T/F WALZ HSF P[ W [QL HT W U WANN-T WALD-[PAU "" #T/F WALZ HSF P[ W [QL HT W U WANN-T WALD-[PAU "" #T/F WALZ HSF P] W [QL HT W [W LZ] @QL # " ( @-L\_/\[Z HK &M Z - J [ T HKL JLY[HD JOHUNZ [V ?LJ[PAU "" #T/E WSKRNYLWA-PRN[QL WANN-T HJUH HELK JVT WALD-[PAU L\_JLV[PAU "" #T/Ž - JVWKRNSŁ JVT WALD-[PAU WANN-T HJUH HELK JVT WALD-[PAU "" #T/Ž - JVWKRNSŁ JVT WALD-[PAU WANN-T HJUH " #T/Ž - JVWKRNSŁ JVT WALD-[PAU WANN-T HJUH " #T/Ž - JVWKRNSŁ JVT WALD-[PAU WANN-T HJUH " T PSPOU ^ PSOU[ I L KLKJ][PS. \USZZP X\HSPOZW/[HDPPAU YLSPNHWSHH S. [VJLY[HD HWHUNLT LL[ZPUWHL HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HLYPSYZW/] HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HZWWIV]LT I LY#Ł# " ( [Q-[ HL W [ T WARD-K POHU T HZWWIV]LT I LY#Ł# " ( [ Q-[ HL W [ T WARD-K POHU T HZWWIV]LT I LY#Ł# " ( [ Q-[ HL W [ T WARD-K POHU T HZWWIV]LT I LY#Ł# " ( [ Q-[ HL W [ T WARD-K POHU T HZWWIV]LT I LY#Ł# " ( [ Q-[ HL W [ T

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IN [ID. VAN [BRING [3]: LT VSV T LL[ WZL-Y] BL EZ [L-YT ROH-[L-K I  $\cdot$  [ID. / VT VANU  $\cdot$  RPOAL [ JH-XZL WYNAYNAKK YLHEAU  $\cdot$  RPOBL [ $\cdot$  V  $\cdot$  LHEZ INSEA PROAL [ID. LTWW [1]: LAY INDICENTAL REPORT OF THE REPORT

I# @O\_[FFLHHZKYZ]YB[JKZ]VJR\UPZYLVW[JKND[GOZJVSTU^ISS]LZ]tZN QD[[V[GLJVU]PD\JKLTVSWTLU[VN[GLU-FLKL\_J]N]]PLWSBLYEVU[GLNG-[LZZ][W[GND[GL]HS.ILSV^+

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NLHH-LILLK [O.PYL\_RIRNI LLLTRIZ VICLY[O. VISU [O-KNO] O. TRIZOH-LUPLVEHV VIVIO. JOHUN. RUJVLVSHUK YLJLEJ LH [O. LUK
VIVIO. TRILL' LHVIVANK HUHZOMI T LL [LX) HS[V [O. L\_JLZZ VIVIO. H] [NHPSIVZ] VIVIO. L\_L] [PLE-ZI LLLTRIZ VUCLY[O. VISU [O-J
-V.SK I L HUYLK VU [O. VIT VIAU Z TRIH-UPSZ [HIT LL [Z VU [O. TRIZOH-UPL-VIVIO. TRIZOH-UPL-VIVIO.
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JOHUN. RUJVLVSNIPRILITZE] [V [O-LINT REHINU WT VKRRIH-INU II V [L\_JS.KRIVIO. HUX HSW [O-VMIT LL [RZ.SAĞ)]

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6ENF	; <b>FVM39201</b> F <b>SEZ</b> <sup>2</sup> I	-RVIZ? JJ ) DDFTVBJE >FTUCH ~1		: FUSFNFOJ SIBID *FOFOJ" "I	, FBJ BCE , JIBCINIZ *FCFGJ ~1		#POJO/FE #FSR//JUFT BCE*FOFGJ "I		<b>⊄PUB</b> M ∝ï
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I" 4W-FIPY OŽ>VEH-LETPIZ WYWPUPRHGL, LIN[P]L WINNLYI<1; / WW M2UH6`LI-NZ##"L#!#L#!#\$LHLK##%Ž@OL PEKPPR\HSZJVT WEREN[OL UVU<1; UHT LK L\_LIN[P]L WINNLYZII: WU<1; : 1; Zj/WWLHJO`LI-WWZJLU[LKHLSZP[LKILSV^Ž

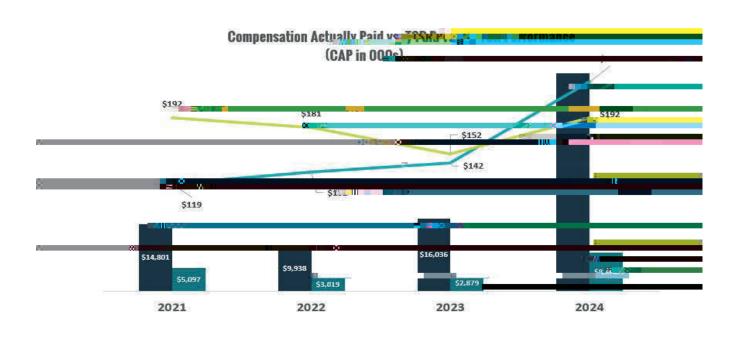
> **ヺ**ł ヺ**ブ** <del>žł</del> žž **ブł ブ**l **žł ž**'' 88/KCŽ4V^L9\$:6Ž 88/ KCŽ4V^L98AŽ 9HTQL^ -Ž/H\$LWUL 9HTOL^ -Ž/H\$LWUL 7/12[18L9H(18)-UKLYZNU 7/12[18L9H(18)-UKLYZNU 7HLU9ŽOHD.[ 7HLU9ŽOHO.[ ·HIF ÄSHIU ·HIF ÄSHIU **6KIPO4ŽOV[ZVU** AKIFO4ŽOVIZVU 2/11/18/4/11/19/8K 37H1874111019X : HUI` **&** 8H LU : HUI` @ 8H LU 7HLU9ŽOHD.[ 88/ KCŽ4V^LSEAŽ

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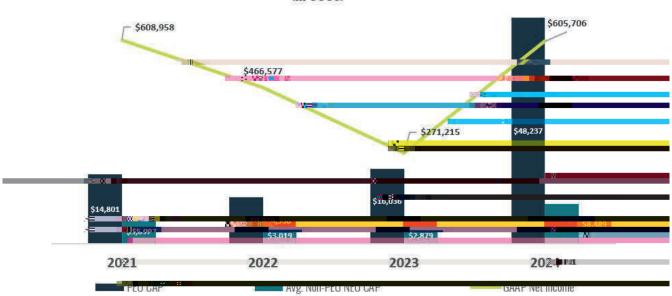
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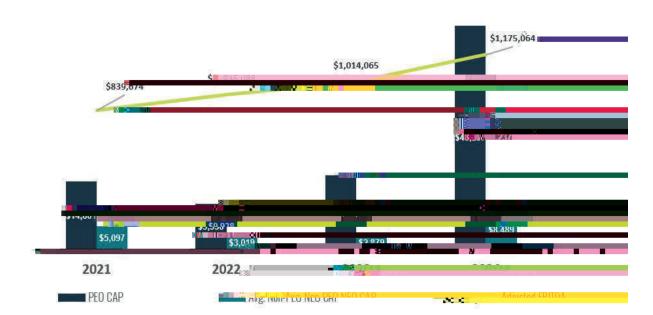
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# Compensation Actually Paid vs. Net Income (in 000s)



# Compensation Accularly ratio Vs. Augustierctor-ERITMA (Tin 1000s)



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@QL-\KP/VTTP[]LLO-ZHWWP[LK1, EHZ[QLPKLWAUKLU[H.KPWZ[VWWWT HUP[LWH]LKH.KPWQ]QL/VTWW WW [QL PWWHS LHYLLKPW9HVO\$"Ł# #8Ž1, E ZLYJLK HZ WYPKLWAUKLU[H.KPWZ WY [QL PWWHS LHYLLKLK 9HVO\$"Ł# #7Ž. ?[WROJSKLYHWW]HSW[QL HWWP[T LU[IZW] YLXNPLKŽ

@D. VHKILSP]LZ[OH VI [HERENZ[VIROASILYYH]PRIH-[PRUVV[D. HWARE[T LL.[EZHZALKJVWWH]LNV]LYLHUIL WHJ[EJLŽSM [OL Z[VIROASILYZKVUM]]V[L VUHUHK]EZW I HZZ PRIMJ W VMM, EŁ[OL - \KIP/VIT PRILL ^ ISSYLJVUZRILY^OL[OLY[V OPIL [OL INT HIK TH YL[HRU 1, E W OPIL HUM[OLY INT ^ PROAL Y ZAIT PRIRNI [OL T HILLY INW Z[VIROASILYZ [V HWW]LŽ@OL - \KIP/VIT PRILLYL]HRZ [OL KEZYYL]PRUH HU [FIL IVHWARE] HKREZIYL] PRILNALKILU] HKREWŽ

>LWZZLŲHĮPLZVIVI, EHLL\_WUĮLKĮVI LWZZLŲHĮ (OL-WAHS9LLĮRIVEH)HBH S. ĮVYZVIUKĮVHVIVVIPIĮL XLZĮRIUE HUK^IBSOHL (OLWWNĮVUP) ĮVT HRLHZĮHĮLT LLŲ IRVĮOLY KLZPILŽ

## "\$!"!% | IL~"(f% \$+(!&!ž°!Ž"~ž+1%,\*;°'&f(;°!Ž";ž%&fiž

- ZYLX\PLKI` ?LJ[POU''% VN[OL 1\_JOHUL - J[E[OL /VT VMJ IZVM/]RRENZ[VIROASLYZ^R[OHUALI IEKRENHK]IZM ]V[L VU[OL JVT VMAJH[POUVANYUHT LK L\_LJ\[I]EL VRIBILYZEHZKIZJSZIK RO[OL /O¸ - E[OL HJJVT VMJ RENJVT VMAJH[POU[H \$.ZEHLK [OL YLS+[LK UHWH]F]L KIZJSZIX RO [OZ VWL] Z[H[LT LL[Z-\$OANO[OZ]V[L IZ HK]IZMY E[OL . VHK HJK [OL /VT VMAJH[POUL /\\$\YL HJK <LWW /VT T P[]LL ]HSL [OL WWERUZ VNW\YZ[VIROASLYZ HJK ^ ISSYL] RP^ HJK JVJJRRLY[OL]V[RONYLX\\$Z ^ OLU T HRENIV[\YLJVT VMAJH[POUK]JZRUZ VMV\YUHT LK L\_LJ\[I]EL VRIBILYZ

- ZKLZYPLK PUKLĮHSPO [CL./O¸ -ŁWYJVT WWZHĮPOUWWYHT ZHIL KLZPULK [VHĮYHĮŁT VĮPHĮŁHUK YLĮHPUL\_LJN [PJLZ WWXNZIJHUKPUH 199° [VT LLĮ HUK L\_JLLK [CL. KLT HUKZWNN YJSPLĮZHWN ZT HUHNLT LLĮ WUMĮPT RIPENZĮWIPOJSKLYJHSL HUK WWZĮLYPUN HU V^ ULYZOPV J\S\_VYŁ JYLHĮL HWWWPPĮL YL^HKZ IWW W [ZJHUKPUN WWWNT HUIL HUK WWLHĘPPZ IWW WLAWWWNT HUILŁHUK WWJ IRL JVT WWĮPPJL YL^HKZ [CH] IWPĮLYJVSH WHĮPPUI `YL^HKRPUL\_LJN [PJLZ IWW [CLPYJVL]VPN [PPU [VWYV]LYHSWWWNT HUIL HUK IMHHUIPSZ JJLZZ^CDS. KLĮLYT POPNHUK HSWJHĮPNIPULLĮPJLZ I HJLK WUMYWWWNT HUIL HZ H ^CDS. PUYJVULĮPPU VVĄCI ZMIPP HUK J\S\_VYL WWWSH WHĮPPU [CH] CHZ KLIMPLK \Z [CWMNOM] WYCZZWY Ž-JJWKPNSŁ[CL

V Qi Q ú

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@D. VHK PZUM HY HL WATU V(OLYT H][LYZ[VI L WZZLLĮLKH [OL-ULAHS9 LL [RNŽSARU V(OLYT H][LYWWWAYWH][RUU H] [OLT LL [RNZOASKI L WZZLLĮLKL [OLOASKLYZ VANJOL HJUVT VMU RENVAV.] ^ [RS] V[L [OLZOHLZ YLWIZLLĮLKI ] [OLWW\_] WZJOT H][LYRUHJUWKHULL ^ [RO[OLPYI LZ] OKNT LLĮŽSARU T H][LYW] WWWAYWHJ[RUH [OLT LL [RNZOASKI L WZZLLĮLKL [OLOASKLYZVANJOL WW.] ^ [RS] V[L HH-RRE] JAURRILYH[RUUNNJOL T H][LYW] OLWWAZLKHJ[RUĽ

. WKLYVN/IOL. WHK VNOPLJ[WZŁ

STATIFA STATIFA

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## fŽ"! \$& ž&fž`! \$Ž`&f5 ž``!' & žž' `ł Ž į &fžı `ž" "\$! \*+"\$! ° į" \$ į %

@OL. VHK IZ ZVSMPRNVIV\_PZ [VIL\ZLK H] [OL-UJHS9 IL[RNVIV][VIROASLYZ [VIL OLSK] PI[\HS VU &S #%# #% I LNPURNH[) +! HŽ Ž10@H[ ^^^ŽIP[\HSCHLOASLYT IL[RNŠVT ž - 4#! #%Z

#### ) 4E-9 fb1/1553@41?1 <> □E9-@>58N

EN O-JL YJLIJUK [O.Z. WW] THLYPSTI JHJZ NY. WHK IZ ZASPIJENI NYWW] [V]V[L NYZOHIZH [O. - UNHS 9 LIJENŽ-ZHZJUROJSKLY: N HZ PEJIJUK [V. - UNHS 9 LIJENJHUK HZ YZNIZJUK [V]V[L W]O. IJLT ZVNINZRIZZ KIZYPLK PEJOZ WW] ZJHJLT LUJŽ@OZ WW] ZJHJLT LUJ PEJSKIZ PEVNT HJRU [O-J. ^ L HZ YZNIHK [V WW] IRL [V N N NULY 21/ NSZHHUK KIZYPLZ IZZNIZ WU ^ OBO ^ L ^ NS SPL ` N [V]V[L H] NY-UNHS 9 LLJENŽŠ HSV NJIZ ` N PEVNT HJRU W [O-Z. IZZNIZ ZV [O-J. ` N JHUT HR. HU PEVNT LK KIJERNŽ @O. WW] THJYPST PEJSKI NYWW] ZJHJLT LUJ NW [O. - UNHS 9 LLJENKNYHUNHSYLWI [V Z]VIROJSKI ZK ^ OBO PEJSKI Z NY-UNHS>LWI [W 2NT "! 17 NW [O. ` LHYLLIKI K 9 HVO \$ 'Ł #! #%HUK [O. WW] JHKKWHJV[PUJHKKNW [O. - UNHS 9 LLJENŽ

# ) 4E OBD fi>1/1951 - ;: 1Q:-31:; @\$15 @\$19-98>13->053@\$1 fi@> 1@-B\$8.\$88E; 2<> □ E9-@>5855?@-0; 2-2488?1@, 2 <> □ E9-@>58N

#### /; C/-: fi?53 A<2>@1118/@;:5<> IEO1881\*E?1\*B51N

EV. JHULSJ[[VYLJL]L HULT HB[O+[ WW] RLZHBR[VV.YW]. YW]. T H[LYPSZVU [OL SE[LYLL]Ž@OL WW]. JHKW[OL RE[XJ]RVLZ [O+[ HJVT WALRK \ V.YWW]. T H[LYPSZ \ RSJVL[HV RE[XJ]RVLZ WO OV \ [V YLX\LZ] LSJ[WALB KLS]LY WWM]. Y H[LYPSZ \ CO. JVZ] WWWR[RNHLK T HBRN WW]. T H[LYPSZ \ CO. JVZ] WWWR[RNHLK T HBRN KW]. T H[LYPSZ \ CO. JVZ] WWWR[RNHLK T HBRN KW]. T H[LYPSZ \ LT HB. \ \ V.W \ RSYLJU]L HULT HBUL\_[ \ LH Y \ PORZ[XJ]RWZ JWL]. HBRN HBRN [V [OWZ. T H[LYPSZ HK HBRR [V [OL WW]. ] W]. ] W[RNZPLŽ EV.YLSJ[RU[VYLJL]L WW]. T H[LYPSZ I \ LT HB\ RSYLT HDIRULTWD[ \ U[RS V [LYT RH-[L PZ]. ]

#### /; CO, fi-@q: O-: O<->\$\$5-@ 5 @\$1 B5@A8":: A8\(\) 11@53\\

EX ^ 1951 L H S. [V ] PI(\HS H[]LUK [OL - ULX HS 9 LL[PEN I ` ] PZPPEN ^ ^ ŽIP(\HSO-NLOJSKL\YT LL[PENŽVIT ž. - 4#! #/%.
- \$OX NOP ^ 1951 L H] PI(\HSVUS T LL[PENLE[OL / VIT VMU ^ HL[Z [V HZX.\YL PPZ Z[V)ROJSKL\YZ VIVPZ]VIT T PPT LL[ [V LUZ\\PEN[O-F]
[OL - ULX HS 9 LL[PEN VIVI] PRLZ PPZ Z[V)ROJSKL\YZ ^ 1PO [OL ZHT L \\ \PHO[Z HUK WWWN[\UPPZ [V VMM[PPPM]L HZ PP HU PEVWWZWU
T LL[PENLEPUS KPEN[OL H 1972 [V HZRX\LZ[PEUZ VIV[OL. VHK HUKT HUHNLT LL[Ž

@/WM[PRML PU[OL - W.H59 LL[POL' W. ^ ISSULK [OL JWL[WSULT I LYSUH]LK WU' W.YWW\_ JHK W [OL PRZ[NJ[POUZ [OL HJVT WHURK WYWW\_ THLYPSZ @OL - W.H59 LL[PON^ ISSI LNPUWVT V[IS H]) +! HŽT Ž1HZ[LYU @FT L WL6.S #%# #% CL LLJIW YHL W [VHJUZZ [OL] PI[NHST LL[PON^ LI ZP]L WPW[V [OL Z]HL[ [FT LŽ; UBPL JOLJR PU^ ISSI LNPUH] ( +% HŽT Ž1HZ[LYU @FT LYHK W ZOM SK HSW/ HT VSL [FT L [VLUEN L WYH ISP [VHJUZZ [OL T LL[PONŽ

#### °-: fi/4: 31 9E ŒN

EX TH Y\_VRL`XYVW\_`ILVWL [P EZ]V[LK H\_ [OL-UXH69LL[PENI` KLSPLYPENHZPLLK Y\_]VJH[POU \$\_[LY [V [OL?L]YL]HY VN[OL/VT VMU H\_])#)\$3YLLUZ VWYONPLE9J8LHLEPINPLPH##"!#LWI` Z\IT P[]PENHUL^ VW\_`LKH\_[LK \$\_[LY [O-UXH69LL[PENZX LZ]PBULEBNN HL]PI[\H6 H][LUKPN [OL-UXH69LL[PENHUK]V[PENK \YPEN [OL-UXH69LL[PENHUK]V

#### °-:;@11>9-@12?.101/5010-@211~::A-82\_11@53N

@QL.VHKRZUJ[HYHKWNID V[QYTH][LYZ[VILWZJL]LKH] [QL-UJHS9LL[RNŽSJID V[QLYTH][LYWWWMYNMHJ]RDUH [QLTLL[RNZOASKILWZJL[JK] QC.OSKLYZW[QLHJVTWD RNWV]. ^ [85]V[L [QLZOHZZYLWZJL[JK] [QLWW]. WZJLJUK [QLOASKIYW][RUH] [QLTLL[RNZOASKILWZJLJUK [QLOASKIYW][RUH] [QLTLL[RNZOASKILWZJLJUK [QLOASKIYW][RUH] [QLTLL[RNZOASKILWZJLJUK [RUW]. ^ [85]V[LHHRR] JWZRKIY[RUW][QLWWWZJKH][RWZ

#### ) 4@3@11 B@ >1=A5102>1-/4<> < ?-8J

2//WWWJ-5"ŁLHOWNIOL KRILI (WZ ZO-56) L LSJ (LK I` HT HOWP` WNIOL ] V(LZ ] HRS JHZ [H] [OL - U.J.HS9 ILL [RINŽ2// WWWJ-5Z #ŁHUK \$ŁHWW] HSWNIOL WWWJ-5Y XX PILZ [OL HOWT HIPL ] V(L WWHIT HOWP` WNIOL ZO-KLZ ILL [RINŽ K [V ] V(L H] [OL - U.J.HS9 ILL [RINWU] CL ZN OD [T H] [LYRU XLZ [RINWU XLZ LL [LK LIPC YRU WWZWU WN` WW\_ H] [OL - U.J.HS9 ILL [RINŽ

#### ) 4@2fi-9 - ?@/74; 801>; 2>1/; >O-: OQ : ; @<; BBD1 B; @535?@A/@5: ?C41: >1@>; 53- <; DEN

 $\label{thm:construction} % $$ $$ XNJEX[O]VINUENTOR HILYVU[O.VW_] JHKZ < W_EZ[O] HL ZELLK HLK YL[\YLLK I \ [ KV UV[JVL[H2]V[EN]V]NEX[YJ]ENUZ^ESI L ]V[LK+$ 

- k 2 > [OLLSL][RUUNRISKRL][WUNT RLLZHZZL[NM[ORU[OZVW] Z[H[LT LU]]]
- k 2 > [OLY-[HRH-[POUVN]OLHWRE[TLU] VM, EHZ [OL/VTVHU ZRKLVMUKLU] YLNZ[LYLKHUVNU]RNIRHT INVIRUHSLHY# #8, HJK
- k=2 > [OLHANN] HEVUHUALII PEKPENEHK] PEAY I HERELYA [OLJVT VALUEH] PAUVANA YUHT LK L\_LJ\[]] L VARBILYZ

#### ) 4@22fi-9 - . 1: 12858; C: 1>-: OO :; @3881 B; @535?@A/@5: ?@ 9E. > 71:N

#### /; C->1 -. ?@: @5: ?-: O. >; 71>: ; : OB @?/; A @ON

- I Z[LL[PULZ^PSO-] L [OL LYZY] (NY LYYYL] LYY (NY LLYY PRON) LYOVN LYY (NY LYY PRON) LYOVN LY (NY LYY PRON) LYOVN LYOVN LY (NY LYY PRON) LYOVN LY (NY LYY PRON) LYOVN L

. WRLYUWJV[LZ HIL JV.V[LK IM/ WWW.ZLZ WW.Z]H \$2000N H X.WXT Ž. WRLYUWJV[LZ ^1850]L UV LIMMJ[ W [OL V.[JVIT L V.V[OL WWW.ZHZ IMV] (OL LS.J]PAUVWIPIJ[WZ HLK [OL HK] PZW ] V[L WU] OL JVIT WW.ZH-FRUWW.WHT IMV[OL /VIT WW.J Z UHT LK L\_LJ.V[]PL VITMIL WZ OZJYL[PAUHY ] V[PANI ` HI WRLY ^1851 L WW.T P[LK IMW [OL WWW.ZH-SIMV [OL YH] PRAH-[PAU WW.HU PKLWW.KLU] YLNZ[LYKWI \$9 HJV.V.[PANIPIT Ł^OBODZ [OL VUS W.K] PL WWW.ZH-ŠČ

) 4, C38/; A @@f1 B @f?N

## ) [ '**%** \$ \_ ` , \$ , ž ° \_ %

\$\text{Inst Hirou Juli-relk www.yullulick [v hu ^u zijl vlimetulk re [cz <w\_` ?ihilt lu re w/ relwwhhilk i` vlimetul re [cz <w\_` ?ihilt lu relwwhhilk i` vlimetul re [cz <w\_` ?ihilt lu wrehu violyvlww wkw.\t lu ^l rel ^reo [cd ?1/žc l w/ irls \zl wysijlziw \ls.\froc ^u zijl [vww/relww.zzvls.hu.zhlk violyrelwh hirou]ch th i l klt lkt hit hir hille [vz] -JJwkrens to luw.\th rej lziwzhlk violyrelwzijlk rejc./vt www [vvl] re^ [cd relwh hirou]ch ^l zohu hirozhlk hirozhlk hirozhlk rej lziwz rej lxzijlk rejcz ^u zijl hew z rej lxzijlk vlwzwz [v zinu \wiv hiroxhlk hiroxhlk]ch hirozhlk rej lziwzhlk rej lzi



### ž;:Q~~"Ž1-?A⊳1?

CLWN \$95 KZJ\$ZZ\_JLY[HDUWJ3--<NBHUIPST LHZ\YT LL[Z:RDJ\$KREN>L]LLXL£1\_J\$KREN. ISH \$.1\_WAZIZ:-KQZ[LK 1. 580- Ł-KQZ[LK 1. 580- PHWDWJL]LLXL£1\_J\$KREN. ISH \$.1\_WAZIZ:-KQZ[LK: L[ 55JVT L£HLK-KQZ[LK 0]\$,[LK 1HJURNZ &LY?OHL£W-KQZ[LK 0]\$,[LK 1<?ŁI LJH;ZL T HJHNLT LL[\Z]Z\_LGLZ\_T LJH;X\Z NW I\ZRLZZ\WHURNIWWZZ;RDJ\$KREN[VT HJHNL NYI\ZRLZZ HHRRI] RE[LYJ-\$WWQJ[LK YZ;\$Z NWWM;RDJLK T LJH;X\L NYVWWW;T HJJLŽCL]RP\-KQZ[LK 1. 580- Ł-KQZ[LK 1. 580- PHWD WJL]LLXL£-KQZ[LK 1. 580- PHWD WJL]LXL£-KQZ[LK 1. 580- PHWD WJL]LXLZ WJL 1. 58

HZWIPILK ^ PROKRIZIPANZ WKLJULARKI-POLEHUK I\_P HT W[RI-PROUVY ^ YPLINTOWARL I FZX HUIL JVZ/Z HUK KLI [
KZJWULERUHJOJHZ UL WIJOL [H\_ LITZD] ^ CLY. HWWWIPIL JHSVS-[LK \ZRNHUHZXT LK LITZD][PJL [H\_ YFLZC L
WLWAL - KOZ[LK: L[ SJIVT L [V LSF REH]L [CL FF WAI] WWPLT ZEUL WVIHZ ^ LKV UV JWLDRLYRKEHIPL WWUNZN
WWWHIRNWAMAT HUIL KYL [V [CL PRECLYLU] \UXXHSL\_[YHWKREHY EW UWWYL) YMRNUH, YL WI LJHZ [CL Y YZ S
NWT HU L]LU WWH ZFF RSY UH; YLZC L ] RP UL RIVT L L\_JSKREN [CL FF WAI] WY[CL YLT LHZYLT LU WY[CL
/VT WAU ZKLIWYLK [H\_ HZZ [ZHLK SPI RSPEZ HZ HUFF WW[HU] RKEH [WWWWWWT HUIL JWLDZ]LU ^ PRO[CL T HULYRU
^COPOT HUHNT LU[ T LHZYLZ HUK WWLJHZ [CL /VT WAU Z WWWWT HUIL HUK [CL ^H RU ^COPOT HUHNLT LU[ RZ
RUILL[PRELK[VWWWT Z

- k i-KOZĮLK OBS, [LK 1<? YLWLZLLĮZ KBS, [LK 1<? JH9\S+[LK \ZRN-KOZĮLK: L[ 55JVT LŁHZ WWWZLK [V LL[ RUVT LŽ -KKP]PNU-SSŁ-KOZĮLK OBS, [LK 1<? KWLZLW[ JVL[LT VS+[L HU HKOZĮT LL[Z [V LL[ RUVT L HZYLX\PLK\LKLY[OL [^V I JS+ZZT L[O.KHZKZJSZLKRU]OL IVM([VV[LZ [V [OL JVLXARK+[LK INSH-UIRSZ]+[LT LL[ZŽ
- k i 2LL /H2O 25/^j YLWLZLL[Z [OL LL[ JH2O NLLLY-[LK IWT WWY-[RN H][PPRPZ \$.ZZ [OL FF VM][ VMW/O-PLZ VM WWW.N[ ŁLX:RVI LL[Ł-LK:ZM]N HLŽ

k i>ljulij Y.W.Zilizhsivuzvskijuk 3--<Yljulizhkozijk (viphjvvu nvat hilmshix izishuzvvkijlzija vz kvenio joliv lhvannat hul vanski vith i l hkozijk ip hjvvu nvajo tvsije p vaji vaz--<hus wjvzi hjvvujenzihushko huk nshumpsylvvijenjohunz i nphjvvu nvajo p vaji vazvjuvi uli zojkvvuz kvenio vanat hul vansk huk išvivljak io p vaji vanu vuz herinixhuis vjv ymensvazivjiven ljulizhkozivpuk nshumpszihit ulizvanizkujs vjv ymensvazivjiven kozvznozihit ulizvanizkuje knshumpszihit ulizv

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