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Translated into Cree by Greg Spence

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Ь N<9σСd۲′ <.Р2.Д·Д•Сф Р PL T2(Q-d, 2,C do U<, DbFo b bα·<<<` >P<>.∇·Δι·Δσσ°x کر که ،د۰∆۹-۱۹۲۰ ارج، bl ¬lcp, P·JlJ¬·∇, L\·∆ 40' 9.60 b Lo<op b Δ (\sim . Δ . Δ - σ ° \sim . Δ . Δ . Δ . -0°C ΓΥ·∇ <1.∇0 b Δ\$ Pσ·<<L)L,* >Γ P·JLJ¬·∇, b ¬∩C ∇ C·bCσ·√\ b Δ\$ Γ^PbUP Δb $\Delta U - P \cap b$ Δc $U < LT \cdot \nabla^2 c$ ⊲·b^·b∆bUP LγΦ∇ρ,*

15_x dσL Γζ·∇ dγΓΔΟ·Δ' β β Δ\$ ΛΙCCΦ·Φ' Φ'ς ba·d<CJ·Do VbdSA Arc P $\nabla_{\mathcal{A}} \sim 1 \cdot P_{-}$ 4.47U 5.5 Pr FC)FCa Fa σ·5 Γ()Γ(a 4·∇σba\ Lb 4.44∩ LCJLC. % ÞUU9, LYabbax F7' dop DL V5.63 $\Delta C \cdot \Delta \sigma' \quad V \wedge^{\circ} P^- \quad d \in P F' \quad \sigma^{\circ} C \quad L \cdot L \cdot \Delta$ d)^9·∆a o^C VV5\ d·√oba\ ¬^C 6 P^P_

 $4.\Delta^{2}$ 4.0 4.0 4.0 4.0PPC·√ √V,CFd·√, b,U°- bL - L)(1.4) β Δ\$ βσ·4<(b,

9.60 o'C 6 D)Cdl'\ doloo Δ (\sim - ∇ - Δ - σ - \circ \triangleright / Δ < \cap - Γ - Δ - σ - Δ / \star

17x 025.< Pr 286.46.0.0 $\mathsf{Lb} \ \mathsf{dor} \ \mathsf{d} \cdot \mathsf{\nabla orbo'} \ \mathsf{\nabla P} \ \mathsf{dorJCP'}$ P ∇₹ ·<<<p>Cb, Δ₹ L9,Π°Cb, 22604.7.7220, 20,0 dele, $\Delta C \sim \nabla \cdot \Delta \sigma \sigma^{\circ}$ Lb $\nabla P < P \cap \Delta P$ $6.9 \cdot 1.7 \cdot 4$

18x 'P @P^6·4·4' AGG·4' $\GammaPO(1) = \GammaPO(1)$ b ▷(^b¬ґ) Δ(·Δα ς·<^bΓ)</p> \triangleright C \lor _bC_PLP,* \triangle \land CL, \triangleright U_P0 $\triangle C \cdot \triangle C$ ¬^(⟨¬¬ 9.60 b Lo<o b $\sigma_{bq} = \nabla_{pq} = \nabla$ ∇)LPΠ, Jυρσ, σσρUς·∇σ ⊳L×

19x ∇P 47LV, LY·Δ P9 $\triangleleft \cdot \nabla^{\alpha} \rho \sigma' \quad \wedge \vee_{\nu} \rho_{\nu} \quad \rho \quad \rho_{\nu} \cap \gamma \circ \rho_{\nu}$ σα Þſ ∇ρ <ρ∩αρ\ 9·bσ° β Γ·ανσσ΄ ·Δ(L9·Δα σˆ(β ΔS ba·d<(P' dolor 9.6a β Γα<βαρία</p> P bal ·al·cl/ dace p >Γ
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< Δb 0<0 00, Δb 0 Δb $S\cdot\nabla\sigma\Gamma\Gamma$ $P^{9}\sigma(J\cdot\Delta\sigma\cdot \triangleleft^{9} \ b \ \Delta S$ P^9GCP' 9.60 6 NLNY6CP' 5^C Db PD·Δσ·d°x

20x For TP 4,C P b $\sigma_{b,\rho}\rho_{\phi}$ L_{c} L_{c} P⁹σU, ΔΦΦ θ·ρσ PΓΦ<Φb

 \triangle P°· \triangleleft <LP \cap , \triangleright F ∇ (\backsim · \triangle · ∇ , 6.9Γ9.1·Δα 6 P 6.9ΓΓ6·Δ²,× \triangle)(J· \triangleleft · \bigcirc \triangleleft \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc σ·<<CΓ, Γρ LυρΓ, dolpn, ωυC VA $\Gamma J L P < C \cdot \nabla$, A D L $Q < \cdot \nabla \Gamma P$ $PA_{c} = PL_{c} + P$ D³U₂D √0,ν

 $ba\cdot d < CJ \cdot \Delta \sigma$ $V > d > \Lambda$ $\Lambda \gamma^{c} \quad P \quad \Delta \gamma^{c} \leftarrow 0 \quad \exists \cdot b^{-} \quad \exists \gamma^{c}$ ors Pr FC)FCa Fa σ·5 ΓΩΓ(a d·Vσba) LP 4.44A LCJLC.56 ⊳UU9, Γ\σ∇ρσ×

 $U < LT \cdot \nabla^2 \varphi$, $\varphi < LU - \varphi$, φ ¬^C 9·6a 6 σ<·ΔL6P Partor Partor6.9697. DC U<17. DC 6.9631.7° F\σ∩.4 4,6 ...4 σος σρισ γραγοσρο ρις σρος Var assi ∆l Vullu, bCx $\lambda_{b} = \Delta \chi_{b}$, $\Delta \chi_{b} = \Delta \chi_{b}$, $\Delta \chi_{b} = \Delta \chi_{b}$ 6.9631.70 d,C P Q,CLU, $\Gamma L^{\sigma} \nabla P_{\lambda}$ P $\langle P_{\lambda} P_{\lambda} P_{\lambda} P_{\lambda} \rangle$

 $\Lambda^{\circ}PCY^{\circ}\Delta b^{\circ}\Delta b^{\circ}C \leftarrow Ub^{\circ}U$ $\sigma \rightarrow \sigma_{\sigma} \rightarrow$

$\triangle C \cdot P \subset A$ $\triangle C \cdot V \cdot P \subset A \cap P \cap A$ **ፅ**-**Р**σ **P QሞT**L**PO***O*, **U**<**o** $\rho\sigma\cdot d < CI \cdot \nabla \Phi_{\ell}$

4 $\Lambda^{\circ}PCP_{\bullet}\Delta b_{x} PP< P\cdot \nabla \cdot \Delta P\cdot \Delta^{\circ}_{x}$ $b^{\circ}P \triangleright \cdot \Delta \cdot \Delta a \quad \sigma^{\circ} (\nabla^{\circ} \cdot b \sigma < \sigma P)$

 $22x 4^{9}U - 0.4 \Lambda^{9}CYa\Deltaba^{3} \sigma$ $\triangle A$ $\neg \cap C \quad \triangleright b \vdash P \cdot \Delta \sigma \cdot d \cdot d \quad \triangleright P < \triangleright \cdot \nabla \cdot \Delta r \cdot d \cdot d$ ¬^C b Δ^·b<σσρ σσΔ $b^{\circ}P \cdot \Delta \cdot \Delta a \quad \triangleleft a^{-} \quad b \quad \Delta C \cdot bP \quad P'$ \triangleright a \sim · ∇ · \triangle σ α ' $_{x}$ \triangleright L b (·b) Δ U9 \forall σ L Δ C \sim V· Δ V σ C σ 6.9697.70 P 20-7.606 P 20-7.606 P du Vubchapab ⊳c×

23_x Γ²·∇ Δσσ·Δ¹ Γ·¬σC·L¹ Γ¹/ VVY $\Gamma\sigma d \Gamma \Delta \sigma VY$ $\Delta \sigma \Gamma \Delta \sigma$ Δ P bl L9.Pl ∇ . P σ b. σ . ∇ 6.9ΓΓθ′ 9.6Φ° Λθ Φ.∇Φ UNGLUS. AP bl F. J.d.c. FP $P\Gamma \Delta \sigma b \Delta U' \Delta C P \Gamma \Gamma P L$ 4774' 4.76 Lb 54^{-} 95° >P<>.∇·Δ·2° b <1.9 9.600 9 ام ره ۱۹۸۹ء° ط۰کههم ۰ط *J< J, D J → D C → L*

24x Þ′ <>∩∠·△σ· <^P >C 9.P, P <PTLP∩/ >C $P = V_b U_a \times V_b \times V_$ <PU σ F· σ P· σ · σ \rangle PP< ∇ · ∇ · ∇ · ∇ · σ V· σ V ¬^C <| do-L N<|do-9.\D 4<0.4 $677 - CI \cdot \Delta \sigma \sigma^{\circ} \cdot 4\sigma \Gamma^{\circ} \cdot \Delta \sigma \sigma^{\circ}$ bl byu•b, rp △ σσρ(·Δα(6, ΥΓUς·∇ααα, ω, C ·Δ·ΔΓΔδ° ΓΥ·∇ Δσσ·Δ Lb b PNNa·d·96L6 ♥ 6.97L7′ 9.66°x P^{-} To U
 P^{-} To U
 P^{-} C P^{-} C P^{-} Lb ·b'>' ∇ σ'C'∇σCP' ⟨\O')

25_x b ∧JCC·⊲·9 ▷′ 40^{\prime} 45.4^{\prime} $6^{\circ}PD.\nabla.\Delta$ Pr ·dadr ·DC 9Lb·a b U/PCL J-PO/x $P_{\wedge} b \triangleright \cdot \nabla \cdot \nabla_{\circ} b$ $b \vdash Pq \neg U_{\wedge} \triangleleft \cdot \triangle^{-p} \neg$ $\triangleleft \cdot \nabla \sigma$ be $\neg \circ \cap \nabla \cdot \nabla \cdot \Delta$ by $\triangleright \circ$

26x ▷P<▷·∇·△··△` CP Ld¬·△` <PC \sim \cdot V \cdot D \sim \sim C \wedge d \vee b

P C907.8 VV P F907 $< P(\sim V \cdot \nabla \cdot \nabla - \nabla \cdot \nabla - C \cdot d \cdot P)$ $\Gamma^{\circ}b\cdot d\Gamma^{\circ}$ $d\sigma\Delta$ $d\cdot \nabla\sigma baC\cdot V$ b $P\Gamma$ $\cdot \forall \sigma \Gamma \theta \sigma \Gamma \neg \Gamma \cap \Gamma \cdot \nabla \cdot \nabla \cdot \Delta \sigma \sigma^{\circ}$ b 45.9 ♥ (·VLbσσ' 4a4.√a b · d o √ P · P · P · A b · ∆ $\cdot \triangleleft \sigma \mathcal{S} \cap \mathcal{P} \cdot \nabla \cdot \nabla \cdot \Delta \wedge^{\circ} \quad \mathcal{T} \cap \mathcal{T}$ 47.4 $\triangleleft \cdot \nabla \sigma \mathsf{b} \circ \mathsf{d} \mathsf{CP} \mathsf{d} \wedge \nabla \cdot \nabla \cdot \Delta \sigma \mathsf{d}$ PL^{x} QV $d\cdot \Delta^{2}P^{2}$ P $Pq^{2}V$ \triangleright 6< \triangleright 6< \triangleright 7< \triangleright 7<0 C · ∇ C Γ· \triangle 0 d·9 ·√ Lda·9 √√- √ Fodd/ √√a $P\Gamma \ d b' \ 9 \ d b \Gamma^{\circ} C L d' \ D a c \ \nabla \cdot \Delta \sigma'$ LP VACGLO de 4.20 PL •Δ(ρ) Δ•δσβσ•Δ(),*

27_x ▷P<▷·∇·Δ²° ⊲⁵·⊲³ Γ¹′ PNNal' - o^C Nd P·<d' 4.70-ba $C \wedge G^- P \cap D \cap C \cdot \nabla \cdot \Delta G \cap G$ <PC∽.Δ.∇ Γ\σ∇σ (CV,9-ba·A Pagerbus)x

28x dol pr·√ b°p>·√·Δoo° pp \triangleright a \sim · ∇ · \triangle o' ∇ ·b σ L b ' P \triangleright · \triangle · \triangle ' Pr P·<d′ d·Vσ-ba b aaC·Δ $\forall b^{\circ} b^{\circ} b^{\circ} \wedge \Delta \cdot \Delta \sigma \sigma^{\circ} \alpha \rho^{\circ} b^{\circ}$ $P\Gamma$ $P \cdot < 0'$ $0 \cdot \nabla_{\sigma} b_{0} b$ $0 \cdot 0 \cdot 0$ Pr·7 6 45.9 6 C·VL600 6 L590 L·9 dod d·Voba V °C·∇σC·bσσ\ P1 P·<</p>

¬^(P(·∇ ∇)(·∇σ(·bσσ'_x DL Jr L5967′ 4.√c o^c \d b Jr ∆U&r′ <1.√c Lb Sd- Lb Cb ∇ b, Δ C· \wedge P·P \cap Δ $\nabla C \cdot P_{\lambda} \cdot P_{\lambda} = 0$ $\nabla C \cdot P_{\lambda} = 0$ 9.6, C·A 8 DL P92, 4.20x Δ^Λ 4·∇Φ P 4\$L<0. ∇ ee($\cdot\Delta$ erbe- \cdot d \cdot PP< \cdot D $\cdot\Delta$ r $^{\circ}$ C LL⊅J° 9.600° ·∇ 60.√00 ГГГ $\Delta \Omega^- \Delta \Delta Pel Legal. \nabla \Phi e$ bl ⟨\dolday \dolday \do Þ′ Þſ°CL9·Þx ÞL b ÞPP

29x b P·<▷/ <1·▽a Ja 79° ∇ b, ∇ V \triangleright b< \triangleright · \triangle · ∇ V \triangleright $P^9\sigma^6U\sigma^4$ Lb $Ad \Delta P^9$ $(C\Lambda^{-}\Delta^{\wedge}\Lambda \ b \ L \cdot b \Lambda^{\wedge}P\sigma^{\prime}) \ \sigma^{\wedge}C$ Ad b P·<>C ·<</p> $\triangleright^{\cap} \cap \cdot \vdash \sigma^{\setminus}_{x} \quad \vdash \quad \vdash \cdot < \triangleright \cap \quad \dashv \cdot \nabla_{\sigma} \quad \cdot \dashv \dashv^{\vee}_{x}$ $P = \nabla U \cdot \partial P \cdot \nabla U \cdot$ 4.7a .6b^\ a.d- 6LL)-0e(J.9 N<9~Cd7/ Pr _2/~\d\ -√C Λd PΓ·∇ b ΔC~·△Nd′x 9.60 Pr LLD-06-LPD 62.V, P QC·ΔP^9σΓ6U·9 PΓ P·<>/ ⟨□·∇Q P^n·66 · √45 6 △n·9 6 6∧U datice, dic or vibchappa,x ·◁ヂ ▽ △⋂′ ▷^⋂·७♂\ ୮८·▽ 9.60 C 60.4<P6UP .7r 9.60 $\wedge d = 0$ $\wedge d = 0$

30x b △PP 9·ba ∇b C·V 9 Pl b.<PU<, √.Δσ <p>4 6 $\triangleleft \cdot \nabla_{\sigma} \mathsf{b} \mathsf{a}' \quad \triangleleft \mathsf{b} \mathsf{a}' \quad \triangleleft \mathsf{c} \mathsf{P} \mathsf{b} \quad \mathsf{q}$ σρ(·ΔΦL9L, ⊳LC_o Δ ∇UL, ρ $\nabla \cdot \mathsf{\Pi} \mathsf{\Gamma} \rho$, $\rho \circ \varsigma \cdot \Delta \cdot \nabla$, $\mathsf{CV} \circ \mathsf{Q}^ \mathsf{Q} \circ \nabla$ \triangleright a \sim · ∇ · \triangle o' \rightarrow °(\triangleright ° \cup a \triangleright bLSCJLb ∇b Pr $\Delta C \cdot b$ $< \cdot b S \cdot \nabla \cdot \Delta$ $\Delta C^{\circ} d\sigma 9 \cdot \Delta \sigma^{\circ} 2017_{x}$

31x Lb ▷L ▷ΦϤ·Δ·Φ/ 9·b, △ L)-o-LPU/ ⟨¬¬- ,b (·PC, △ ΔσΙCL' ΔσΔ σΛΟ ΛΥΡΟΥΩΔ6Ω 6.9697.Vox

 \triangle C.PC \triangle - \triangle , \triangle V,bCL \triangle P,* \triangle Figure 10 Point \triangle $\Lambda \Gamma C \sigma \cdot \Delta P \cdot \Delta \Gamma b \wedge \Delta C L P \cdot \Delta \sigma \times \Delta C L P \cdot \Delta C L P$ 6 F^P6UP 5°C 6.9P9J.∆a

5 ♥ Λ^PſN'x ♥ L·4)&bUP PAGTONA ·ACL9·Ac

32x DC P V,bU, ,PT-(<0,5) $PP < P \cdot \nabla \cdot \Delta r^{\circ} \quad \neg^{\circ} C \quad d \cdot \nabla_{\Phi x} \quad \sigma$ ρ ∇l <
 LLP, ~ Φ ·∇Π, ρ ∇l apusa, dal p Dl Vinip $\nabla (\hookrightarrow \cdot \triangle \cdot \nabla)$ P ∇ L \cup P \cap P \cap bl pord<lpnb ouc a <buo,

6.919J. Da Dr 6a. d< r6UP

33x 4°C 6°C° 6 6.9°91' $\nabla C \cdot P = \nabla C \cdot P \cdot \nabla P \cdot \nabla$ >LCo →LC V9 △P ∇LV V9 $PQ_{0} \rightarrow Q_{0} \rightarrow Q_{$ (6.909J·△° 5.1)_x

o 6.9637, √orr $\nabla C \hookrightarrow \Delta \cdot \nabla$, by $\nabla \cdot \cap \Gamma P$ $PV \supset_{Q} PV \supset_{Q} P$ ·
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¬ $\nabla A \Delta P \nabla V \nabla A P$ VOSLPON PL PVUe/ $\triangleleft \cdot \nabla_{\mathbf{Q}_{\mathbf{x}}}$

 34^{\times} PT ∇ C \hookrightarrow · \triangle · ∇ · ∇ O ∇ OCTP \circ d·Dapa bey, du dal p Δ) $\nabla \cdot \Delta$ Δ $\nabla \cdot \Delta$ $\nabla \cdot \Delta$ $\cdot \triangle \cdot \triangleleft \sigma \quad \triangle) C' \quad \triangleleft \cdot \nabla \sigma^{\times} \quad \rho \cdot \triangle \quad \sigma C \cdot \triangle$ P^9660P 6 L79660V 9.63 6 $\Gamma \cdot \forall J$ $e^{\Gamma \cdot \Delta}$ $e^{\Gamma \cdot \Delta}$ $e^{\Gamma \cdot \Delta}$ $e^{\Gamma \cdot \Delta}$ **bl** <<, <a>-, <a>-, <a>-, <a>-, <a>- <a> \triangle P \triangleright b< \triangleright · \triangle · \triangle T₀ \cup V \neg · \triangle P ΔU°CJ·9 96 PP ·∇Λω ⊲σΤσ°

 $\cdot \Delta \text{CL9} \cdot \Delta \sigma \sigma^{\circ} \text{ (b.9} \text{P9J} \cdot \Delta^{\circ} 5.2)_{x}$ $\sigma^{\circ} \text{ 'P <PN} \sigma^{\circ} \text{ b.9} \text{P9} \cdot \Delta \sigma \text{ Vb.b'}$ $\text{PP } \Delta \text{COU'} \text{ b } \Delta \text{J } \text{ db} \text{FCL} \cdot \text{ded'}$ $\text{del } \text{PP} \sigma \text{Fd} \cdot \text{CL} \cdot \Delta \text{CL9} \cdot \Delta \sigma \text{ Fd} \cdot \nabla \sigma \text{ S.3}$ $\text{POS } \text{POS } \text{COS } \text{C$

 $\triangleleft \mathcal{J}^- \triangle^{\wedge} \wedge \triangleleft \cdot \nabla_{\bullet} \triangleright_{\bullet} \rightleftharpoons \cdot \nabla \cdot \triangle_{\sigma} \wedge$ P VASCAS, bu <bush of the Processing P \triangleright a \sim · ∇ · \triangle a $^{\prime}$ (\land 'd $^{-}$ \triangleleft aL P? $\Gamma^{\circ}ba\cdot\Delta$ $DU<\sigma S$ Pr $\Delta C^{\circ}9\sigma 9\cdot\Delta^{\circ}$ $\forall \sigma L \ \Gamma \sigma \cdot 9 \cdot \Delta \ < P \subset \sim \nabla \cdot \Delta \ P \Gamma$ $\Delta C^{\circ} d\sigma 9 \cdot \Delta^{\circ}$ of Ad Ad-L $\Delta C \partial_{\sigma} g \cdot \Delta$ < $P \cap_{\sigma} g \circ P < P \cdot \nabla \cdot \Delta f \circ$ Pr Dralid' Ad divoba >P^9&FdY·△ ·△CL9·△&&&°x ,6P·dLdT, V,bC,b, ▷,∩™▷ bL LLJ-0-Cb, bl ⊲Chσ7Pn-p-Δ V_{ρ} $A_{\varphi} \nabla \rho$ $A_{\varphi} \nabla \rho$ $\Delta C \sim \nabla \cdot \Delta \sigma^{\prime} \times (b \cdot 9 \cap 9 \cup 1 \cdot \Delta) \times 5.5 \times 5.5$ -o,C ,b ⊳2C, P·dLd¬·∇σ deΓ $PL \ \nabla(\hookrightarrow \cdot \triangle \cdot \nabla, \ P \ \nabla(< L(\hookrightarrow \cdot \triangleleft))$ $\triangle \wedge$ 6 PANG-6U' DL<6" $\neg \wedge$ C b > \r' > \c<\sigma'\ (6.9\r91.\D' 5.6 ¬^C 5.7)_x

 37_{\times} Pr·V 9·b' 4°C \triangle C \sim ·V· \triangle \sim $\nabla \cdot b\sigma L b \Delta S < 5U \Delta \sigma J C b U b$ *αC·Δ P⁹σΓbU*\ ·
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 Δ) - o ^C b aC·Δ P^9σ-ΓbUP b L79 σ 6 bUP 9.6 σ 6 Δ 6 σ 0.4.9 ¬^(\d 9d Pr ·dosse)\de ρ VL< ρ b doc ∇ C ϕ O ϕ O ϕ O $b \Delta C^{\circ} b \sigma < \sigma'_{x} \sigma < b U \Delta U^{\circ}$ $\forall \sigma L \Delta^{\uparrow} \Lambda b L + 9 \sigma \Gamma b U \cdot 9$ 9.6° C \(\Delta C \cdot \rightarrow C \right L79GCPU.9 P C·VLPb J·P, ·△C QC·∆ P^906bU\ << b DU<0.9 $C \cdot V \cdot \Delta$ L59 σ $C \cdot \Delta$ 9 D σ $C \cdot \Delta$ 6.00 - 100 $\Delta Sa \cdot bP P^n a^- PP < \forall UC \cdot b' PL$ Lb dol Pogo-Lgr. → Oclg. Do P T.4)@PU, d,C P Vubuu, $^{\circ}$ 6 $^{\circ}$ 6 $^{\circ}$ 6 $^{\circ}$ 7 $^{\circ}$ 6 $^{\circ}$ 7 $\Delta C \sim \nabla \cdot \Delta$ (6.9091. Δ 5.12 5.13 ¬^C 5.14)_x ¬^C 'P 6.9°P J' 4.7010 2.01 € 20.00 €

Lρ ∨9 .ρλυρ ∇·ΠΓρ, Φυς ρ °C·∇σC·b` ▷L(b·9Γ9J·Δ° 5.11)_x

38x Lor TP ,C 40-10, 40-F b L·△)σbU\ P^9σΓdイ·△ $^{\circ}$ $^{\circ}$ PLF $\sigmaC\cdot\nabla$ $b_{\sigma}d^{-}Ld\cdot\nabla$, PL6 L·4)66UP 9·60 Pr 46L $\nabla(\backsim \cdot \triangle \cdot \nabla)$ ρ ∇ $q < U \lor \Gamma \rho^* q = \Gamma$ 6 L. Jobup 9.60 Pr. DAN \neg° C \land d \land° A \land d \land d \land D $^{\circ}$ P \lor D $^{\circ}$ A $P \cap \nabla \triangle \wedge b \triangle P - 9 \triangle \wedge b$ $\nabla C \cdot P^{\mathbf{D}} \cdot \mathbf{d}$ $\partial \cdot P$, $b \cdot \triangle P$ $C \cdot \triangle P \cap A$ $\forall \sigma L P^{9}\sigma \Gamma d \Gamma \Delta \cdot \Delta C L 9 \cdot \Delta$ ρ δυηςτρφων δι συσης 9.60°x 6 DS .4<CL3 .670' $\Delta Sa \cdot b \cdot a \quad \Delta \wedge b \quad A \quad A \rightarrow \Gamma \Delta'$ AS A<ULFPP<*

39x DM Nd b L.479PPM $\cdot \nabla \mathsf{CFd} \cdot \nabla$, $\cdot \mathsf{J} < \Phi \cdot \nabla$, $\cdot \Phi \cdot \mathsf{C}$ PPL Dr Sd dol DCa b $\nabla C \cup P \cap A < - C \setminus A - P \cap B \cap A < - C \setminus A - P \cap B \cap A < - C \setminus A - P \cap B \cap A < - C \setminus A - P \cap B \cap A < - C \setminus A - P \cap B \cap B < - C \setminus A - P \cap B \cap B < - C \setminus A - P \cap B \cap B < - C \setminus A - P \cap B \cap B < - C \cap$ d·√o blco vq c ·√o bude rp·o 6-919J·V >C P P^U'C·bP \triangleright L $ba\cdot \triangleleft < (\exists \cdot \triangle, \quad \nabla \cdot ba\cdot \triangle, \quad C \cdot V$ \circ \checkmark CULLO' \triangle M \land d \lor \land D $47\Gamma\Delta\Gamma$ $4.\nabla\sigma$ 6, 7° 60, σ 0 $C < P \cap \sigma b U < \gamma \circ \Delta \gamma \wedge A \wedge P \cap G$ $47\Gamma\Delta'$ $4.\nabla$ e 7° be' 9° C Λd $P\Gamma$ LYOLDS 6C/ J. VO.x

40x b LFD-o-(bU) PSM' b 4.∆σ J_epσ,α ΓL)-2,Ω, ρσ(\forall^{P} \neg^{C} $\cdot \forall a \cdot \Delta \cap \Gamma$ bac \forall^{P} b ΔS $P^9\sigma^{-}CP'$ $\sigma^{-}Ca^{-}aC\cdot\Delta$ $b_0d_0 \subset T \cdot \nabla$, dl_- as $U \lor \sigma \cdot \triangle$ $\rho\sigma\cdot d < C \cdot T \cdot \nabla$, $^{\times}$ $\Delta \cdot \rho^{\circ}$ $\Delta \cap C \cdot C \cdot C \cdot C$ ∇_V V9 P ∇ 0, LP0, bu \forall 2, ∇ 0 9~9, <<0.5.√.</p> Ja σ°C (·V ·ΔΓΔ·∇Lb·a ⊲σL ρ ∇_{ν} σ σ σ σ σ σ σ σ σ P F9GL 4. Do . TUP . TUP TOP $\nabla C \hookrightarrow \Delta \cdot \nabla$, LJ, $P \lt P \cdot \Delta \cdot \nabla \cdot \nabla \cdot \nabla$ **Ч<U**\LPb<,*

41x σ^C 'P LΓ)σ'U' Δ^Λ $ACC \cdot \nabla$, $P \nabla bb A \cdot P$, $P \cup C P D \cup C$ $\triangleright < \triangleright \cdot \nabla \cdot \Delta \wedge \cdot \Delta \wedge \cdot b \quad \forall b \quad$ \triangle VOCb, ∇ V V9 bl \triangle PL \triangle L √√√√√√√
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6 ∇ Λ°PΓΠ'x ∇ 26~·4Γ6U' 6 L·ADGBUP AN' ·ACL9·AQ

42x ▷C 6 Λ^PՐՈ\ σ' ⟨¬σ_U" $\neg \neg \bot \quad \triangle \land \quad \triangleright P < \triangleright \cdot \nabla \cdot \triangle \land \land \quad \nabla b$ $\nabla V = \nabla V + \nabla V = \nabla V + \nabla V = \nabla V$ P^96FdY·A ·ACL9·A66°x

 43_{\times} 4°C Λ C σ 50° Λ ^PC70 Δ 60° ~P2·4U94·4/ PL F·4J~b/ $P^{9}-Fd+\Delta$ · Δ CL9· Δ - σ ° PS 3

9.60° C 9L ΔΩ ΦΟΛΟΥ ΦΟ ΛΥΡΟΥΔΑΘΟ (6.9Γ) Α

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·∇CTJ·∇, ΓΡ ∇Π, LPΠ。 ΔΡ Δ T.a.J. PS^A' <^P <pre>
6 ·∇Γ L·<1)~bU~' <1.√~b' \\ $V \wedge^{\circ} P^{-} \vee \nabla_{\sigma} P \wedge^{\circ} (C \wedge^{\circ} J^{-} \wedge^{\circ} P)$ P UN,C95L, P FFLV95L, P PS-16PI, F20-Ld.V. $\Lambda \Gamma \triangleright U_{\Lambda} \triangleright \Delta \sigma \sigma \cdot \Delta \Gamma \sigma d r \cdot \Delta$ $Pa\sim V. \Delta^2$ of Vd P ∇V of Vd V VLLDL, DLx PP dar A·NA, $\triangleleft \cdot \triangle^{\sigma}$ LJ·C $, C \cdot \triangle^{\alpha} \cdot C \cdot P$, $P \triangleright L$ P^9GF′ <1.√a b L59GF′x ΓΡ ⊳Ь<▷·Δ·∇\° C ٩LC° bL $L\cdot d \supset \Delta' \quad P^{9} = \Gamma d \Gamma \cdot \Delta \cdot \Delta C L^{9} \cdot \Delta \sigma = 0$ $\triangleleft \cdot \nabla_{\sigma}$ be $| U \wedge \alpha' \triangleleft \alpha| > P$ >P<</p>
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√ ρησ-Γάγιδ ιΔΟΣΑιδια Λά Δυ9 $\cdot \Delta \circ \cdot \lhd \circ \quad \triangleright \land \quad \Delta \cup \circ (\exists \cdot \Delta \circ \cdot \lhd \circ \quad P \cap \circ)$ $\triangleleft < \Gamma C \Gamma'_{x} \quad \triangleright P < \triangleright \cdot \nabla \cdot \triangle \vdash^{\circ} \quad \cdot b \vdash^{\circ}$ P P ·∇CJ·9 9·P, ·△L 9LC·9 $\triangleleft \cdot \nabla \sigma$ be CP $\triangle \supset C'$ PS $^{\wedge} \wedge$ Lb $\Delta P \cdot P_3 C_o \ Vq \ P_1 \ \nabla P_3 C_3$ $\triangleleft < \Gamma C^{\circ} \subset \Delta S \text{ be} \cdot \triangleleft < \Gamma b \cup \sigma^{\circ} x$,6 P2C, P·dLd¬·∇, d DL مهرم، طعل ۱، کا درم که کا در می کا در م 9.60 JOD 9 P JNO-6UP -C $\wedge d \nabla b (b \cdot 9 \Gamma 9 \bot \cdot \Delta) \cdot 6.2)_{x} \neg \Gamma$ ، مر٠ط<۱۸، مرر م <۱۵،۵، مرا $C \wedge d^- d \sigma \Delta \theta \cdot b \alpha \theta \rho \Delta \rho \sigma \cdot d \cdot \theta$ >P<>>·∇·Δ·</br>
' ⊳∩교Ρ` Ρ[^]9σΓΙΤ·Δ ·ΔCL9·Δσσ°

 47_{\times} LC- Lb 'P< ∇ ' DL b \wedge ^PCO' ∇ d σ L CL' d σ L 9.b' d σ L Δ (\sim 2. ∇ 2. Δ 3. d σ - ∇ b b

 $^{\circ}C \cdot \nabla^{\circ}C \cdot b$ $\Gamma \wedge \nabla \cdot \nabla \cdot \nabla \cdot \Delta \wedge c$ $^{\circ}C \cdot \nabla \cdot \Delta \wedge c$ $PP < P \cdot \nabla \cdot \Delta r^{\circ}$ b $dr r d' d \cdot \nabla \sigma b d$ ΔP $\sigma < \Omega$ $\nabla \Omega$, $C \cdot P$, $b \in \nabla C \cdot P$, ح^(6.909_۱ ، ۱۹۰۵ و ۵۰ و ۱۹۰۵ و ۱۹۰ ·Δ L·<) ωρ' 9·6σ° ·67' 9·6σ° 9.60° 46 PS^A' 6 'C.VolbU.9 ₽^٩-۲٩٢٠Δ ·ΔCL9·Д، ГР V٩ Δ· d 9Ud7CÞ· Δ-Φ Δ-PP $\forall P \Delta' \ \forall \nabla \Delta \ \forall \Delta \ b \ \Delta b \ \Delta D \ d$ \triangleleft °C \triangle C \triangleright · ∇ · \triangle σ ' (6·9P9 \bot · \triangle) \cdot $6.3)_x$

7 ∇ Λ^PΓΠ* << \C\T\•\Δ@ << \σ\L

48x σ·5° 6 Λ°P°N' 62·4<CJL6° \triangleright $^{\prime}$ \triangleleft < \square \cdot \square \cup 40L PL P F F.470PPA 6,44.7 √7CF4.√3× ,6.C. del 6 Volu, Δ Notadl, ρ ρ DY DL TY·∇ 4·∇L 6 (·V4σL' \triangleright P< \triangleright · \triangle · ∇ · ∇ · \triangle · \triangle PP \cup · \triangle C \bigcirc · \triangle 6 P^U&L' 4.7662 .67^\ △)C·√ 6 P^U&L/ J\$\frac{1}{2} \frac{1}{2} $P^{\prime}U_{\sigma}\Gamma^{\prime}\nabla^{\prime}\Delta\sigma^{\prime}$ ΔU_{π} $\Delta^{\prime}\Lambda_{\pi}$ $\Delta^{\prime}\Lambda_{\pi}$ β Δ(
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49x AM 6 6.969125.41

P^90Fd7.V .VCF3.V DL >P<<</p>
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</p $P\Gamma \cdot \Delta CL \cdot d' d \cdot \nabla_{\sigma} b a d \Omega'$ 9.60 -< LS 37C/ Pr L.472 P^9GFdZ·A ·ACL9·AGG°x DC b $V_{U}U_{U} \sim V_{U}U_{U} \sim V_{$ \triangle^{\wedge} 9 \cdot \triangle CL' 6 \cdot \triangle 4 \cdot ∇ \triangle \neg° C 9 \triangle Sa·b' \triangle° A \cdot 4 \neg 7 \wedge 7 4.72 5.6 9.4 1.7 $\cdot \nabla \Omega$, $\partial \cdot P$, $\cdot \Delta U$ $\cdot C \cdot \Delta$, $C \cdot P$, b U $\cdot \triangle CLL$, $\triangleleft \cdot \triangle - P \triangleleft$, $b \cup b \cup a \cup cb$, 9.P, ·△U ,C·△←C·P, ·∇CT∂·∇, ·√r 6.969Jaco·√\ ¬^C (co 9 Δ<<p>
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50x ▷C 6 Λ^Prn\ ← 6.9r9J ·∇CTJ·∇, ⊳L JL·Δ ·P}J, bL ∇ JLPN, \forall JU- ∇ -, Δ L , \cap \triangle -, C-P- \neg° C Γ D \triangle OC9· \triangle D' (θ -9°P9· \triangle) 7.1)_x σ <ρη_¬, ρ.9η9, Δσ 9.60 9 P SNO-6UP AS ·<L\$ 6.90910\ P~9⊕E94.∇ ·ΔCL9·Δσσ° 9 Δ\$ ΔΥΓΔΓ d·∆epe p VUC95L, 2,C Δσσ•
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 Lb LΓ->P<>>·∇·Δ·Δ·Δ·° PC 6·9C9_/ 4CP+ $L7a\Deltaba$ 9 · $\Delta\Gamma\Deltad$ ($b\cdot9\Gamma9J\cdot\Deltaa$ 7.2 7.3 ¬o^C 7.4)_x

51_x ·6²/₂ σ 6²·4<U, 4²/₂ 6.979.00 Page 194.00 .0019.00 PL P 42L<PL, 4.422 ۵C° هری اه ΔC) ۸>هارا′× $\sigma < bU^{\circ}$, $\rho \cdot \partial U^{\circ} + \nabla_{\circ} \nabla_{\circ} \nabla_{\circ}$ >P<</p>
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8 ∇ Λ^ρΓΠ* ∇ ΛCΔЬU\
b L·<1)σЬU\ ·ΔCL9·Δ\'
ba·∇σΓЬU\ ·ΔCL9·Δ\'
55* ▷L Ь Λ^ρΓΠ\ σ·54\ Δ\$
Λ^ρι°*

56x dol o^c' ∇ ^^PU pa·<<<Tp>Pa·<</p> $\cdot \triangle C9 \cdot \triangle$ b $L \cdot \triangle O = bU \setminus \triangle \triangle$ 6 6.96970 G. 6.00 P. 6 $\cdot \triangle \mathsf{CL9} \cdot \triangle$ $\triangleright \mathsf{L} \quad \triangleleft \mathsf{e} \mathsf{L} \quad \triangle \mathsf{Ce} \cdot \triangle \cdot \triangle$ 6 DY-6 4N AJULB PR<-4CPac 1 2017 b Λ>\x 'CσJU' Δ Λ β Δ∫ βΦ·∇σΓβΟ΄ ·ΔCL9·Δ΄ 6 476 5°C V9 AP P **2**65.406 β 24-260.6.7 β \triangleright \ \triangleleft < \cup \$\sum_\$\delta\$, \quad \text{bL} \sum_\$\delta\$\cdot\$\delta\$\delta\$. مر ۷۹ و حادم، ۱۵۵ و ۲۵۵ و ۲۵۵ و ۲۵۵ و ۲۵۵ و ۲۵۹ و ۲۵۹ و ۲۹۹ و ۲۹ و ۲۹۹ و ۲۹ و ۲۹۹ و ۲۹ و ۲۹۹ و ۲۹۹ و ۲۹ و ۲ DJe° p ,C·∆eC·pee,*Fp d,C ← P·θLθ¬, ▷, <
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 $P^{\cap} Q^{-}$ P^{\cap} $\Delta C = A^{\circ} Q + A^{\circ}$ Δ (\sim \cdot ∇ \cdot Δ) (6 \cdot 9 Γ 9 \perp \cdot Δ) 8.1) $_x$ \rightarrow °C 9 45N66U.9 6 665.4U.9 5°C $\nabla P = \nabla P$ ·ΔCL9·Δ' (6·9Γ9J·Δ' 8.2)_x

57_x ⊳C σ[^]C' b Λ[^]PL σ[^]C $\varphi < \forall \Pi \forall \sigma \Delta$, $\rho \nabla b b \nabla \nabla V$ >P<>>·∇·Δ·Δ·° 9 P < < C < ′ $\forall \sigma \exists \sigma^{\circ} \cdot \Delta \mathsf{CL9} \cdot \Delta \sigma \sigma^{\circ} \mathsf{b}$ $ab S \cdot 4 \Gamma b U \sigma \cdot \Delta C L 9 \cdot \Delta \sigma \sigma^{\circ}$ Γ P ,) \mathcal{L} C , P·9L 9 Π · ∇ ∇ ∇ ∇ ∇ LYΦQPΠ, d <<, Φυς P Q? 265.4UP 6 .∇ 4<L(2.4) 8.3 8.4 or 8.5) x Ar 6 60. Dalpha day bod bod folly Δl po- Δ -lpnb d-po- Δ n, d□- △P △ △C·P, C2□ P VIOLP, LY·∆ VJbCJb, VP9/ d $ba\cdot \nabla \sigma \Gamma bU \Gamma \triangleleft \sigma \Delta \cdot \Delta CL 9 \cdot \Delta \alpha_x$ $^{\circ}$ P·JU·C, b,U°- JU· \triangle b ∇ (·P, $\nabla \Phi Q$, $\partial P \nabla \Phi LP D$, $\cdot \nabla C \Gamma \partial \cdot \nabla_{\lambda}$ (στο³ Λ>α) Lb dσL b Δ³·b ¬·√- Pr ¬·√~ rc¬·√ ∧d <UF P ,C·∆~LP∩·P·∆ bL·∆ P Γλσ∇ΡΠ·Θ Δ,C ∇(ς»·Δ·∇°ς 9.P, ·∆L ·∇ <<CC-·</ (P·JLJ·∇, 8'9)* ,C ⊲U P·JLJ, $\Gamma P P < P \cdot \Delta \cdot \nabla \cdot \nabla \cdot \nabla \cdot \nabla \cdot \nabla \cdot \nabla \cdot \nabla$ CP DOCAL PL 2-25 LCL, P^9GFdZ·A ·ACL9·AGG° ·<LS $\sigma \rightarrow \sigma$, $V > \sigma$ $DU(\sigma \sigma)$ ρ $\nabla \cdot \rho$ $L\cdot d$) $\sigma b U \sigma < d \sigma (b\cdot 9 \Gamma 9 J\cdot \Delta^{2} 8.7)_{x}$

64.4 < 600 $\cdot \triangle CL9 \cdot \triangle \circ P < P \cdot \nabla \cdot \Delta \cdot \Delta$ ·Δ(L9·Δα 6 Δ\$ 6α·∇σ(β) σ <γυ ⊲σΔυ, ⊲σΔ ρ ,C∙ΔαC∙ρδ (\) \>\, L)\- \b\-\\ \\ (¬^C ∧d b △CS·<) Γ^C△ Δσσ' ΔσΔ 6 Δζησσρ 766 σ P $^{\prime}$ Q $^{\prime}$ Q $^{\prime}$ Q $^{\prime}$ Q $^{\prime}$ Q $^{\prime}$ Q $^{\prime}$ P $^{\prime}$ Q $^{\prime}$ Q $^{\prime}$ P $^{\prime}$ Q $^{\prime$ 9 62.4<P6UP (6.9P9J.D) 8.8x Pσ·<<</>Pσ·PP Δ (\sim . ∇ . Δ - σ - \circ Δ \wedge \wedge \wedge \wedge \wedge ·Δ(L9·Δσσ° b L·Δ)σ6Uσ\ $P\Gamma ba \cdot \nabla \sigma \Gamma bU' b \Delta S ab S \cdot \Delta UP$ ·ΔCL9·Δα 6 Δ\$ 6α·νσβουρχ $P \cap P < P \cdot \nabla \cdot \Delta T^{\circ} \subset \Gamma P \circ C^{\circ}$ PΓ L·<>1)σ6UσP 6 ΔU° 6.9697.♥3 P ∇C<C △Φ∇ L. D-POL LO BL VOLP 9.60 dos 9 d<CP 00C·D P^9→CJ·Δ' > C (6.9 C9 J·Δ' 8.9)x

59x d'C ous 6 Marn del مهمی، کا کی است کی اور کی اور کی کی میری اور کی pa·∆~LPA, p <<</br>pop $\cdot \triangleleft < (\triangle \cdot \nabla \cdot \triangleleft \sigma \cdot \triangleleft) \quad \triangleleft \sigma \vdash \cdot \triangle (\vdash 9 \cdot \triangle)$ b $ba\cdot \nabla \sigma \Gamma b U' \cdot \langle L \mathcal{S} \ P \mathcal{N} \langle \cdot \triangleleft C P a^c \rangle$ 1 2017 Lb dσL ΔC~·∇·Δ°

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60x 9.63 P 2P2P43 DC 2.60-7 P^9&FdY.A .ACL9.Aa b P L. DOBUP . LS PR. DCPac 1 2017 ∇b N<' V<b' b Δ∫α·bβ $\triangleright C \sigma_{\mathcal{A}} \cdot \langle \Gamma \mathcal{X} \quad \nabla C \cdot \rho_{\mathcal{A}} \quad \nabla C \hookrightarrow \Delta \cdot \nabla_{\mathcal{A}} \quad \triangleright_{\mathcal{A}} \rho_{\mathcal{A}}$ $\triangleleft < \Gamma C \cdot \triangle \circ$ \lor \lor $\triangleleft \cdot \triangle^{\sigma} \quad \lrcorner_{\rho} \rho_{\sigma} \quad \triangleleft_{\sigma} C \quad \triangleright b < \cdot \triangle \cdot \nabla \cdot \nabla \cdot \nabla$ •ΔCL9•Δα 6 Δς 6α•νσ-6606 PASU-PN-A J,C AP- P asc_{a} asc_{b} asc_{b} asc_{b} $\cdot < \Gamma \mathcal{V} \quad \nabla C \cdot Pb < , \quad \nabla C \hookrightarrow \cdot \Delta \cdot \nabla , \quad LJ \cdot C$ bl lucolco p ⊽cu·p<, dl-Poo Poo JCS JCS Pools β Δζσ6U` ΔϽCJ·Δ'x

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63x Lb 4σΔ LΓ)¬σσ(J·Δα ¬¬^(DDVVVVDVV</t σ 6.9637, ΔΦΦ ÞCΦ, ·ΦCΓδ·ΦΦ ۹۲ ح۰۵۵ (ح۰۵۶ حام، ۸>م 8.12)x o^C o <PNo boargale &c. Pr ba. Vorbup DCa. · ACL9· Aa **β** Δ**Γ** α**βΓ**·**ΔU** ·**Δ**(**L9**·**Δ**α **b** Δ**Γ** 6α·√σ6υρ σ°C 9·6α 6 ρ Δρρ 90>> 4<0 P (6.9691.√0 8.10 o°C 8.11)x ΓU_{-} $\sim \cdot \nabla \Omega$, $\triangleright b < \triangleright \cdot \triangle \cdot \nabla \cdot \nabla \cdot \nabla$ $\cdot \nabla \wedge \circ P' \quad \forall \sigma \wedge \quad \triangleright (\circ) \quad \cdot \Delta (L9 \cdot \wedge \circ)$ ·<LS apa N>a DUL<aa, p $\triangle \cdot \cdot \cdot b$ $L \cdot \triangleleft \bigcirc \neg b \cup \neg P$ $(b \cdot P \cdot P \cdot A) \cdot \triangle \cdot$ $8.13)_{x}$

 \triangle C.PC \triangle -Q, \triangle - \triangle -P P V.bU,* $\Delta c + \Delta b \cup C = \Delta c + \Delta b \cup C = \Delta c + \Delta c + \Delta c = \Delta c + \Delta c = \Delta c + \Delta c = \Delta$ TOPHUP TO HOPPILA

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64x <^P >C P \QC\-\QU94\P' °P P·9ΓΓρ. Δ° PΓ· $P^{P} = A \cdot A \cdot A$ $P^{P} = A \cdot A \cdot A$ ۹۰۵ ک، کرح، ک۰۷۰ ک۰۲ 6 6 DSCL/ J,C D,N^CD $Pb < P \cdot \Delta \cdot \nabla \cdot \nabla \cdot \nabla \cdot P \cdot b \cdot \nabla_{< r}$ Popal). April Lb Pr <Pnal; 6.9697.70 De 6.66.90 $P < bU \sigma \Gamma U, \quad Db < D \cdot \Delta \cdot \nabla L \cdot Q,$ 5.<^b \\ >C \\^PC^P\x $P^P \Delta L9 \cdot \Delta \sigma \sigma^{\circ} P < P \Gamma \Delta L / \Lambda d 9 d$ P6<P·Δ·∇\0 P 9LC\ bL Γ·4)Φ\ $P^9\sigma\Gamma d V \Delta \cdot \Delta CL9 \cdot \Delta \sigma \sigma^{\circ}$

65_x ∇^Λ b σΛU/a_4L° b dod P^PodL9.00 Lb b QC·Δ P^9σCL' PS^N' dσL $P^{P} \Delta L9 \cdot \Delta^3$ b $\Delta A - \Delta B U \cdot 9$ $\Delta E - \Delta B U \cdot 9$ Poo Prod Popalla. Pool 49F PLA<6.079, P 4<0, $^{\circ}$ C· \triangle Cq $^{\circ}$ C, $^{\circ}$ C b $^{\circ}$ C $^{\circ}$ <>Ul>

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PPSC.4/ 40-0 9 24-206U0-P 9 Pr ∧JC)rbUe\ deTe° Δ(~·∇·Δσσ° b Δ΄·b <ΡΠσbUσ\ dolon population

 $PL \ \nabla C \hookrightarrow \Delta \cdot \nabla$, $\Gamma P \ T^{\sigma} \ L_{\sigma}(\nabla \ PL$ $PS \sim \nabla \sigma C \cdot L \rightarrow P < D \cdot \nabla \cdot \Delta T \cdot \Delta T \cdot C$ 2.45 PLQC. ∀9 PLQ bu ∇ ouphes, Δ ∇ nsch, ∇ v-·∇σ L\·ΔυΡL/▷C VυbCυb/* P $\Delta \mathcal{S} \cdot \forall \langle \mathsf{CL}, \forall \mathsf{e} \mathsf{F} \mathsf{b}_{\mathsf{e}} \mathsf{e} \mathsf{d} \mathsf{F} \mathsf{e} \mathsf{f}, \nabla,$ TO DU UV PO·4<PU. 40F P VC2·4U9L, Pb<P·Δ·V4. Lb $bVU^{\sigma}U_{r}$ $4.\Delta^{\sigma^{x}}$

67x dC Lb dσL P^PΔdL9·Δ' ·Δ(L9·Δσσ° σ^(b β 6 6 6060 √ 1° 000 € 100 b C·VLboo' ·ACL9·Aa D' 4<0.4U<JLPD PUC P POLYPOR $\cdot \Delta CL9 \cdot \Delta C - \Delta C \cdot D - C$

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LY. Δ_{PL} , ∇_{VL} , ∇_{VL

68x D^ b ap^b.dp $P6<P\cdot\Delta\cdot\nabla\cdot\nabla\cdot\nabla\cdot\nabla$ >C D,C √J,C √J,C √<C), $\Gamma \cdot \alpha \Gamma \sigma \sigma' \quad \forall \sigma \Gamma \sigma' \quad \rho \cap \rho \sigma \Delta L \circ \Delta \sigma \sigma'$ $\Delta b \ \Delta^{-1}Cb \ \Delta \ L9 \ D^{-1}CL\nabla 9 \ L$ $\triangleleft \square' \quad \triangleright P < \triangleright \cdot \nabla \cdot \triangle \land \cdot \triangleleft_{\times} \quad \triangleleft \square'$ $\sigma < \Omega \ \nabla \Omega, C \Gamma \cdot \nabla, \ \Delta \ \nabla C \cdot P$ (·∧۲P, d°F ∇n,C1·∇, L\·∆ \$\frac{1}{\sqrt{\sq\syr\sq\synt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sq

69x 'P lb'U dσJU' b Δ'Λ $P^{U}(V) = P^{U}(V) + P^{U}(V)$ \triangle <bU-PO, bubble of Formula A
 \triangle <br JUGPOL* A TLJ-26LPA $b \cup \Delta$ 9cbp, P $\nabla \lambda$ c $\lambda \cdot \nabla \cup$ ¬^C Δ(·Δσ'9·6a b ·<<(P' ¬^(b Δ\$ <\(^(σ·√)\ √σL $\nabla(\backsim \cdot \triangle \cdot \nabla)$ (· \land $\theta \cdot P^{\sigma}$ PPr·√ Pr ba·d<rbup b 9.60 POCHOLP DUP DUP (b·9ſ9J·△a 9.4 9.5 9.6 ¬^C 9.10)x σ 6.9691, ⊲σΓ (b·9ſ9J·∆° 9.9)_x Lb b ∆∫ $P-\partial L\partial T$, $bL \nabla C-P$, $\neg Q-P$. የ^₽⊅ (b·9Γ9Δ·Δ° 9.11)_x Γ_Δ Lb Δ[^]Λ

 $\triangle < \triangle \cdot \triangle = \circ$ P ,C·<<C/ ← P·6167, bL $P^{P} \Delta L' \Delta \Delta P P \Delta \Delta C \Delta \Delta$ ρ ⊲ρυρετεί συς υ<, ρ ∇ι $LL\Gamma < \sigma \cdot \triangleleft \cdot 9$ (b.9 $\Gamma 9 \perp \cdot \triangle$) 9.12)* P DL . A<CL, bl Dbr, DC. De CS- Pr $\Delta C \cdot b$ Prescherge DC D'ULDx

70x œ 6.9697, bl ⊳lcæ.d/ 6 <\UC.600\ \one \cdot \one \cdot \c P^P_</rr> 9 →<¬∆bU\ (∆(·b→<¬ ∇ <>U ·∆LPL V·J4409JV· D4> Δ^{Δ} ۵′ح ما ۱۹۰۵ کری، ۱۹۰۵ م ·64° (Δ) Δ) Δο σ·Δ' σ°C $P \cap \nabla = \nabla \cap \nabla \cap \nabla \cap \nabla$ $(6.9\Gamma9J\cdot\Delta^{\circ} 9.15)_{x}$ σ $6.9\Gamma9J\cdot\Delta^{\circ}$ der ⊳σς,Δ·∇, δ VTCJlPn, A<</pre>
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< 4ነቦነ Δ CL9 Δ ታታ $^{\circ}$ 4ታ $^{\circ}$ \triangle (\sim · ∇ · \triangle σ - σ ° σ °C b \triangle S $\triangleleft < \Gamma (\sigma \cdot \triangleleft \sigma \sigma' (b \cdot 9 \Gamma 9 \bot \cdot \Delta)^{\circ} 9.18)_{x}$

71x 6 P 40-JCL' 0/ N<PJ·A0'

 \triangleleft , \cup <, \triangleright 6< \triangleright . \triangle . ∇ 1. ∇ 3 Pσ·<<<7.√9, ,P·3L3¬, Lσ ▷C Pr LLJ-o-LPA, bl Plco-d, $b \cup b \neg \forall \Gamma \cup \nabla P \cap L$, $b \cup \Delta \neg \forall C \cup C \cup C \cup C$, $b \cup C \cup C \cup C \cup C \cup C \cup C$ $P^{P} \triangle \triangle \triangle \triangle$ ($b \cdot P \triangle \triangle$) $9.13_x b$ bl $\nabla_{<}$ p dupa, buda dia. Vi مر ۱۹ ۹ ، ۲۰۵، ۱۹۰ ۵ م ۱۹۰۵ م $P^{P} = A P \cdot A$, $A = A \cdot P = A \cdot A$ Pr <<pre>< Plca.d, bl d<UL.D, alc V9 $V_{U} = V_{U} = V_{U$ **6,67** Production of the production o >P<</p>
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√</p $\rho^{\rho} = \Delta L \cdot \Delta b L d$ $\rho^{\rho} = \Delta L \cdot \Delta b L d$ Pr Prc-4, P L4.∆P, U<, d σ<·ΔLb′ b Δ'<\ ρ^ρΔ<Ι...Δ $P_{A} b \subset \Gamma \neg \Gamma \neg \nabla$, $P b < P \cdot \triangle \cdot \nabla \neg \Gamma \cdot \nabla$, $P \cup \Gamma \cdot \nabla$ (b·9ſ9J·△) 9.14)_x

 $\rho \sigma \cdot q < \Omega$, $q \vee l$, $\rho \nabla c \cdot \rho$ $\cdot \nabla$ CF $\theta \cdot \nabla$, L $\zeta \cdot \triangle$ $\Phi \cdot \triangle$ ΦC \neg° C b \neg U< σ^{\prime} P° P \neg 4L9· Δ° $LY \cdot \Delta \quad d \cdot \Delta^{\alpha} P \sigma, \quad \forall i \in A$ $\Delta (\sim \nabla \cdot \Delta \sigma)_{x} \nabla b b b \rho (\sim \sigma)$ \cdot 6+6 \cdot 7 \cdot 8 \cdot 8 \cdot 9 \cdot 9 \cdot 1 $L_{V}(\nabla \cdot d \cdot d \cdot d \cdot e \cdot C) \cdot \nabla \cdot \nabla (\cdot P) \cdot d \cdot C$ Δ (\sim . ∇ . Δ \sim) Pr. ∇ b Δ .ULb -₀,< ρ ∇₹ <<∪\Γρ,* ,ρ.ð\Γ₀,

10 ∇ $\Lambda^{\circ}P\Gamma\Pi^{\circ}_{\times}$ b $\cdot\Delta$ $\Gamma^{\circ}\Gamma^{\circ}D^{\circ}$ $d<\Pi^{\circ}\cdot\Delta\sigma^{\circ}$ $\Delta^{\circ}C$ b $\Delta^{\circ}\sigma\Delta^{\circ}D^{\circ}D^{\circ}$

73x Γ CC/ θ Λ ^PPN/ $^{\circ}$ COJU/ $^{$

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o^C V+·ba\ Pr Δ Sa·bP Δ GA · Δ CL9· Δ a b ba· ∇ GCP\ Δ P< Δ · Δ · Δ · Δ · Δ · Δ

 $\nabla b \cdot b + \uparrow \uparrow \uparrow b$ $\Delta \mathcal{S}_{\mathbf{a}} \cdot b + h \cdot \Delta \mathcal{C}_{\mathbf{a}} \cdot \Delta \mathcal{C}_{\mathbf{a}}$ Pr abobup Lb 9b Pr ·∆V9PN6 4,C P Þσ5.4LPN, ρ ρσ∙Δαιρη ρ δ αγισι,

ρι ∙ΔνΦρη ⊲ΦΦ ρ ⊲ρίζι, \forall 'C \triangleright 'U $_{\perp}$ \triangleright $\Delta \sigma \sigma \cdot \Delta$ $\Gamma \sigma d r' \Delta$ Pr·7 4^^CL9r' 5^C CP DSC·4' 9 ⊳Γ ៤ЬС.∇σΓЬ∪Ρ Δσσ.Δ Leghypa JC DP bl DC.P. $L \neg \sigma \Gamma 9 \cdot \Delta^{\circ}$ (6.9 $\Gamma 9 \bot \cdot \Delta^{\circ}$ 10.4)_x

79x dC' b Pr doL' b P VCL' 7.6- 6 47546/ 4.70-60/ 4070-° ΔοΔ ·Δ(L9·Δα 6 L·Δ)αρ\x L9.PO,CLQ9L, P F28-L95, $P\Gamma$ ΔS $P\sigma \cdot d < L94$, $- \sigma \cdot C$ V9∆CPT' Lb ▷\' Pr P\nod' Lσ Lσ -ω,C ·P,Co, bL ∇)C, ΓΡ Ьυ ΦΥΟΙΣΘΑ, Ρ ΦΟ•Ο P7c bu bunic.P, Pr Lar ·∇(Γδ·∇) Γ·Δ)Φ-PΠ/ Δ·P-7°60' 6 47FC 4.70 √6 C·V4°C·b` (LNb Ad 4·Va V·bo- $\triangleleft \cdot \nabla_{\sigma} b_{\sigma} \cdot \triangle \flat$ P

 >L b Δ^<σ¹ (6.9Γ9.1·Δ¹ 10.5)_x

 PLC_o $\nabla C \sim \Delta \cdot \Delta \cdot \nabla \sigma$ $\wedge P \cdot P_o$ PΔισ.ρασορ Διω.Δ.σ ρ Νιι, $bled av_{cb,x} \ T^{\sigma} \ T^{\rho} \ D\Gamma \ \nabla b$ P bl avcbl, P Drcl, Δ(~·∇·Δσσ° b <\$Γ<σσΡ β Δ\$ 'C·∇σC·bσσ' ⟨⟨σ⟩σ' $\Delta(\sim \cdot \nabla \cdot \Delta_{\alpha} \quad b \quad \cdot \Delta \cap \cdot \Delta) L b \sigma \sigma^{\rho}$ b Pr $\mathsf{d} \mathsf{A} \mathsf{C} \mathsf{C} \mathsf{e} \mathsf{r}$ $\mathsf{A} \mathsf{C} \mathsf{e} \mathsf{r}$ $(6.9\Gamma91.4)^{x}$ $(6.01^{\circ})^{x}$ $(6.9\Gamma91.4)^{x}$ 6.9191.7, 9.70.969 Pr · \(\nabla \) \(\delta \) \(\delta \) \(\delta \) L^{2} L^{2 < $^{\circ}$ $^{\circ$ <\$\footnote{\sigma} \cdot \sigma \cdot \sig $\nabla(\varsigma, \Delta, \nabla, \nabla, \Delta, \cdot \nabla, \sigma(\cdot, \Delta^{\varphi}))$ Δ P bl ∇ C·P, Γ - Φ L θ · ∇ , Π V σ , $\Delta C \sim \nabla \cdot \Delta \sigma'$ (b.9091. Δ) 10.8x Lr- Lb & 6.9191, de7 8 ¬γ¬¬POPOP Pr NV-Fdr/ dop Pr \triangleright P< \triangleright · ∇ · \triangle Z· \triangle ' (b·9 Γ J9· \triangle ' 10.9)_x

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81x DC P V_bLU, ,P \q<0, $\rho \quad \nabla \cdot \mathsf{\Pi} \Gamma \rho , \quad \Diamond \circ \Gamma \nabla (\hookrightarrow \cdot \triangle \cdot \nabla) \quad \Delta$

82x 4GA (') N>' N<PJ+Aa C ASNGBU° AGA ACL9·AQPC 6 40 40-116UP AM 6 9L(2-4) 6L F-4)2-PA, P⁹σFdγ·Δ ·ΔCL·Δσ_x LL^o ΔCD \triangle C) $\triangleleft \cdot \nabla \sigma b a'$ b $L \cdot \triangleleft) \sigma b U \sigma P$ >P^9-FdZ·A ·∆CL9·A•x C°C·C ΔΦΔ Pr·V Λ°ΡςζαΔ6α ΔΦL $Pb < P \cdot \Delta \cdot \nabla f \cdot d$, P < bU = 9 f f, σγρσ Pr ·ΔCL′ Δ·Δσ σης Λα ∇b Pr $\triangleleft < \Gamma C'$ $C \cdot V \cdot \Delta \sigma \sigma^{\circ}_{x} b$ Δ CO Λ > \neg τ' \triangleleft \cdot ∇ α \cdot ∇ C $^{\circ}$ b \neg τ' \cdot $^{\circ}$ ۵۰ کر ۱۰۵ و ک۰۹۰ک و ۲۵ 6 9L(2-14) 6L F-4)2-PA $P^{9} = FdY \cdot \Delta \cdot \Delta CL9 \cdot \Delta \alpha = \sigma^{0} \cdot \Delta d$ $\triangleleft \Lambda \mathcal{S}$ \vdash $\vdash \Delta \mathcal{S}$ $P \Delta S d\Gamma C \sigma \cdot d \Gamma P L \cdot d \sigma b U P x$ C,C,C $\triangle P$ P P P P P P<PNa·AUa Pr d<rcrda-A ·DCL9·Da b abs·dUap d'C ba·VorbUP 9.6ax

 83^{x} P Pa·4<CL, 4 PV C, 4 PV 4

ρ δ <δUσδ, ,δ ·∇Π, αΦΦ</p> $U < LT \cdot \nabla^{\sigma}$ $\sigma^{\sigma} P_{o} \Delta \nabla_{o} \cdot P_{b} Vq$ $\nabla^2 \Phi_0$ $\nabla^2 \Phi_0$ $\nabla^2 \Phi_0$ $U < LT \cdot \nabla$, $e^{2} C^{\sigma} <_{d} b^{\varphi} e^{\sigma} \Delta$ $U<U\cdot\nabla\sigma$ $\sigma\sigma\rho$ ρ ρ ρ ח<ורף סיס, ססף, ף ⊳ניף בינו, o°C 6 ∆216UP 4U1 9.60 6 9191974 14 40-0 Though ¬^C Λd dCPb b·9Γ9J·Δαx DL b ΔS $aab \cdot \Delta a \cdot bP$ $9 \cdot ba$ $a^{\wedge} \Lambda^{-}$ 40-L' Pr 60-4<r6U' 9 DS VTCJLPA, LOGOTON, DL Δ(~·∇·Δ° ~·<^bΓ′ ▷°U¬▷</p> 9.60 6 97CJ6U0P 0°C 6 6.9637° Φ·46 ·∇CT3·∇, ⊳6 P b $PUU9L \ Q=Q \ PUU9L \ QC9-QLPD=6$ <Pna·L 9.6~°x '6.9691' L6 PC DCO-Q LCODO 9 DCODO $U < LT \cdot \nabla$, $\forall < LCL$, $\triangleright b < \triangleright \cdot \triangle \cdot \nabla \cdot \nabla \cdot \nabla$ (b·9ſ9⊥·△° 11.1)_x

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85x ,P·JUJ, d,C C,D V>, $U < LT \cdot \nabla$ $\Gamma L^{\sigma} \nabla P^{\sigma}$ bL $\Phi V \cap L^{\sigma} \cap b$ C/) 9.60 6 P 47F766UP 5°C $\triangleleft \cdot \nabla_{\triangleleft}$ (b.909 $\bot \cdot \triangle$) 11.3)_x $\vdash \Box$ $Lb \ d\sigma P \ V \Lambda^{\circ} P^{-} b \ \Delta C) \ \Lambda > \sigma \gamma \Gamma^{\circ}$ $P^9\sigma\Gamma d V \cdot \Delta CL9 \cdot \Delta \sigma \sigma^0 V + \delta \Delta^0$ $P\Gamma$ $\Delta Sa \cdot bP$ Lb $AGL \cdot \Delta CL9 \cdot \Delta$ Pr 1750-6, Pro 4.422 \neg ^C b Pl4 \triangleleft 1 \triangle C\ \triangleright C \triangleleft S \neg < V^{-} V^{-} V^{-} V^{-} V^{-} ∧>¬۲° (6.9°9.1·△⊾ 11.4 11.5 ۰٫۲ ام.۵)× کې٠٩، م٠٫۲ کې۰۵ م $d\sigma P V \Lambda^{\circ} P^{-} b D C^{\circ} b \sigma r \Gamma^{\prime} d\sigma P b$ P-JULL, bU <bUσЬ, bυJΦL9Υ·∇ (b·9Γ9J·Δa 11.7 ¬°C 11.8)_x

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96x Lb Fa d'C b P aP"b·dP' PYP ALAY SICABLY DC ^^PC^6F6 Lb b P 60.√<<CL3 -25' 6 Δ^ΛΓL6' P^P_4L9·Δ $4)_0.6$, -6 6.6 1 $\Delta \mathcal{S} \sigma \cdot \rho$, ρ $\Gamma_{\rho} \rho \cdot d_{\rho} \rho \cdot d_{\rho} \sigma \Gamma \gamma \cdot \nabla_{\rho}$ PC P,U~D b,U¬D \Q \Q \Q \Q \Q \Q Pr prpalry dup alon $U < \partial_{\lambda} C \eta + U_{\lambda} = \partial_{\lambda} C \nabla^{\Delta} + \partial_{\lambda$ ΓΡΠ·∇²Υ ▷Cσ, U<LJ·∇³ ⁻ ⁻ ⁻ C $\cdot \nabla (\Gamma \partial \cdot \nabla)$ $\nabla \cdot \nabla \cdot \nabla \cdot \nabla$ $\nabla \cdot \nabla \cdot \nabla \cdot \nabla$

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6.959J·∆° 2.1

P VJblu 2

6.979J·∆° 5.1

6.9591.A° 5.2

6.979J·∆° 5.3

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b.9591.4° 5.4

6.9591.4° 5.5

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6.9Γ9J·Δ° 5.6

6.959J·∆° 5.7

6.979J·∆° 5.8

6.9591.4° 5.9

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b·9(9_J·∆° 5.10

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6.979J·∆° 5.11

$6.9791.\Delta^{\circ}$ 5.12

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b·9ſ9J·∆° 5.13

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b·9ſ9J·∆° 5.14

$6.979J\cdot\Delta^{2}$ 5.15

P VJblu, 6

6.1 6.1 b.969.1.

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b·9591.∆° 6.2

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6.959J·∆° 7.1

6.959J·∆° 7.2

- (3) 29° Lb ¬^C ∇ ⟨\dagger \sqrt{\dagger} \dagger \dag

6.9591.4° 7.3

6.959J·∆° 7.4

6.979J·△° 7.5

- (1) $\triangle \cap A$ b $\triangle \cdot B$ or $A \cdot \nabla A$ b $A \cdot \nabla A$ b $A \cdot \nabla A$ b $A \cdot A$ b A b $A \cdot A$ b A b A b A b A b A b A b A
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6.9597. √2° 7.6

6.9597.√2° 7.7

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6.9591.4° 7.8

6.9591.4° 7.9

- (3) V9 $\theta \cdot \theta$, ρ Light θ Light

- (6) $P \setminus \nabla Q + P \setminus \nabla A = A \cdot A = A \cdot$
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- (8) PS^\(\Lambda\) δ \(\text{\sigma}\) b \(\text{\sigma}\) \(\text{\sigma}\) b \(\text{\sigma}\) \(\text{\sigma}\) b \(\text{\sigma}\) \(\text{\sigm

- (11) Pr $\cdot \Delta$ rbu' ps $\cdot \Lambda$, de $\neg \Lambda \cdot \Delta$ r p $\neg \Lambda \cdot \Delta$ rbu' ps $\cdot \Lambda$ r
- (13) $b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot \Lambda^2 \ d CP \ d \cdot \nabla \sigma b a \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ b \cdot \Delta \Gamma b U \cdot 9 \ P \cdot 9 \ C \Gamma \Lambda^2 \ D \Gamma \Lambda^$
- (14) $b \cdot \Delta \Gamma b U \cdot 9 \ PS^{\wedge} \wedge 3 \ del \ b \ \Delta C \sim 4 \Gamma b U^{\vee} \ P \ 4 \cdot \nabla c \ b \ \Gamma \circ 4 \cdot 0 \ P \ \Phi^{\vee} \wedge 3 \ P \ \Phi^{\vee} \wedge$
- (16) PS^\lambda' do d.\nabla b ddy' DC° b des\lambda d.\lambda b ddy' DC° b des\lambda do d\lambda' b b.\nabla co'\lambda b \lambda' \lambda \lambda' \lambda \lambda' \lambda \lambda' \lambda' \lambda \lambda' \lambda' \lambda \lambda' \lambda'
- (18) $b \sim V$, $d = d \cdot \Delta v = c \cdot d = 0$. (18) $b \sim V$, d = d = 0. (18) d = 0. (1

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- (2) $9 \cdot ba$ $der b > 7 \cdot \nabla r b \cdot 9 r r' <math>er < r a e^{\gamma} b \cdot \Delta c + \Delta c e^{\gamma} e^{\gamma} c \cdot \Delta c e^{\gamma} e^{\gamma$

6.959J·∆° 7.11

P VJblu/ 8

6.9591.4° 8.1

6.9591.4° 8.2

6.9597. 5.3 € 6.3

6.9591.4° 8.4

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6.9591.√2° 8.5

 $\cdot \Delta$ CL9· Δ ' b DNG-bU' $\overline{1}\cdot b^-$ b $\overline{4}\cdot \Gamma \Delta'$ $\overline{4}\cdot \nabla_{\alpha}$ b $\overline{4}\cdot C$ CL9· Δ ' b DNG-bU' $\overline{1}\cdot b^-$ b $\overline{4}\cdot \Gamma \Delta'$ b $\overline{4}\cdot C$ CL9· Δ ' b DNG-bU' $\overline{4}\cdot C$ CC' Lb b $\overline{4}\cdot C$ CC' Lb b $\overline{4}\cdot C$ CC' $\overline{4}\cdot C$ C' $\overline{4}\cdot C$ C'

6.9591.4° 8.6

6.9591.√2° 8.7

6.9°9.1.√2° 8.8

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6.979J·∆° 8.9

b·9ſ9J·∆° 8.10

6.979J·∆° 8.11

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P VJblu/ 3

6.959J·∆° 9.1

6.959J·∆° 9.2

6.979J·∆° 9.3

6.959J·∆° 9.4

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Executive Council of Ontario Order in Council

On the recommendation of the undersigned, the Lieutenant Governor of Ontario, by and with the advice and concurrence of the Executive Council of Ontario, orders that:

Conseil exécutif de l'Ontario Décret

Sur la recommandation de la personne soussignée, la lieutenante-gouverneure de l'Ontario, sur l'avis et avec le consentement du Conseil exécutif de l'Ontario, décrète ce qui suit:

WHEREAS by Order in Council numbered O.C. 1994/2016, dated December 14, 2016, the position of Independent Reviewer of Ontario Regulation 58/16 was established to conduct an independent review of Ontario Regulation 58/16 (Collection of Identifying Information in Certain Circumstances – Prohibition and Duties) made under the *Police Services Act*;

THEREFORE PURSUANT TO the prerogative of Her Majesty the Queen in Right of Ontario to appoint persons to serve Her Majesty's Government of Ontario in the discharge of its executive obligations and responsibilities, the Honourable Michael Tulloch, a Justice of the Ontario Court of Appeal, is hereby appointed as the Independent Reviewer of Ontario Regulation 58/16, to conduct an independent review of Ontario Regulation 58/16 in accordance with the Terms of Reference determined by the Minister of Community Safety and Correctional Services from time to time, to serve at the pleasure of the Lieutenant Governor in Council for a period effective from the date this Order in Council is made and ending on March 31, 2019.

ATTENDU QUE le poste d'examinateur indépendant du Règlement de l'Ontario 58/16 a, en vertu du décret numéro 1994/2016, daté du 14 décembre 2016, été créé pour que soit effectué un examen indépendant du Règlement de l'Ontario 58/16 (Collecte de renseignements identificatoires dans certaines circonstances – Interdiction et obligations) pris en application de la Loi sur les services policiers;

O.C./Décret: 1 0 5 8 / 2 0 1 7

PAR CONSÉQUENT, EN VERTU de la prérogative de Sa Majesté la Reine du chef de l'Ontario de nommer des personnes pour servir le gouvernement de l'Ontario de Sa Majesté dans le cadre de ses obligations et responsabilités de direction, Monsieur le juge Michael Tulloch de la Cour d'appel de l'Ontario, est par les présentes nommé au poste d'examinateur indépendant du Règlement de l'Ontario 58/16 afin de procéder à un examen indépendant du Règlement de l'Ontario 58/16 conformément au mandat confié de temps à autre par la ministre de la Sécurité communautaire et des Services correctionnels II occupera son poste à titre amovible, pour une période commençant le jour de la prise du présent décret et se terminant le 31 mars 2019.

Recommended: Minister of Community Safety and Correctional Services

Recommandé par: Ministre de la Sécurité communautaire et des Services correctionnels

Concurred: Chair of Cabinet

Appuyé par: Le président/la présidente du Conseil des ministres,

Approved and Ordered:

Approuvé et décrété le:

MAY 1 8 2017

Administrator of the Government

L'administrateur du gouvernement

Terms of Reference

Independent Review on O.Reg 58/16

On March 21, 2016, the province filed a new regulation, O. Reg. 58/16: Collection of Identifying Information in Certain Circumstances – Prohibition and Duties (the 'regulation'), under the *Police Services Act* (PSA).

Section 17 of O. Reg 58/16 requires the Minister of Community Safety and Correctional Services ('minister') to ensure a review of the regulation is conducted, and that a report on the findings of the review is published, no later than January 1, 2019.

The regulation also requires that the individual conducting the review:

- Is not a public servant within the meaning of the *Public Services of Ontario Act*, 2006, and is not employed in the Office of the Premier or in the office of a minister, and
- Consults with the Minister Responsible for Anti-Racism.

1. Mandate

1.1 The Review

The Independent Reviewer shall review O. Reg. 58/16 and report to the minister on:

Content of the regulation

- a. Whether the regulation appropriately reflects the government's goal of ensuring that police-public interactions should be
 - o consistent,
 - conducted without bias or discrimination, and
 - done in a manner that promotes public confidence and keeps our communities safe;
- b. Whether the regulation appropriately reflects the following key principles stated by the government:
 - Ontario takes the protection of human rights very seriously and has zero tolerance for racism or any form of discrimination based on the prohibited grounds set out in the *Human Rights Code*, R.S.O. 1990, c. H. 19, s. 1,
 - Ontario stands opposed to arbitrary, random stops that do not have a clear policing purpose, and which are done solely for the purpose of collecting identifying information;
- c. Any recommendations in light of (a) and (b) above.

Implementation of the regulation

- d. Whether police officers and chiefs of police are in compliance with the regulation, including but not limited to:
 - Limitations on the collection of certain information pursuant to section 5,
 - Duties relating to the collection of information pursuant to sections 6-8,
 - Data retention and management requirements pursuant to section 9,
 - The elimination of performance targets pursuant to section 10,
 - The delivery of training pursuant to section 11,
 - The development of procedures pursuant to sections 13, and
 - The provision of reports pursuant to sections 14 and 15
- e. Whether police services boards have developed policies in compliance with section 12
- f. The curriculum and related training materials developed by the Ontario Police College to ensure compliance with section 11, and make recommendations regarding the effectiveness of the training
- g. The approaches police services have adopted and any relevant recommendations on whether consistency is required regarding the:
 - · Document to be provided pursuant to section 7,
 - Retention of information to which the O.Reg. 58/16 applies, and
 - Establishment of age groups and racialized groups for the purpose of section 14
- h. Whether there are any challenges, operational or otherwise, in applying the regulation and, if so, any recommendations regarding how they could be addressed
- Whether the accountability and oversight mechanisms in O.Reg. 58/16 are appropriate to ensure compliance with the regulation and, if not, recommend how they could be improved, and
- j. Any potential regulatory amendments, policy and/or procedural changes recommended to improve the implementation of the regulation.

1.2 Consultation and Review Process

In conducting the review, the Independent Reviewer

a. will determine the method, content and extent of consultations required to fulfill his mandate

- b. may request any person to provide information or records to him
- c. shall seek input from the Minister Responsible for Anti-Racism
- d. shall seek input from the Independent Police Review Director regarding complaints related to O. Reg 58/16
- e. shall conduct, or cause to be conducted, an independent survey of civilians and corresponding data collection and data analysis, in order to inform his review of whether police officers and chiefs of police are in compliance with the limitations on the collection of certain information pursuant to section 5 and the duties relating to the collection of information pursuant to sections 6-8
- f. shall review relevant human rights law, including anti-discrimination law, and law on arbitrary detention
- g. may undertake such further inquiries as the Independent Reviewer, in his discretion, deems appropriate

1.3 Interim Reporting

The Independent Reviewer may provide any interim reports to the Minister outlining:

- a. The status of the review
- b. Work that is completed, in progress and outstanding
- c. Risks or issues that are anticipated to or will impact the completion of the review or
- d. Any findings that he or she recommends be acted on before the end of the review

1.4 Final Report and Recommendations

The Independent Reviewer shall deliver a final report to the Minister on matters identified in section 1.1 of this Terms of Reference.

The Independent Reviewer's report shall take into account engagement with community groups, police services and other stakeholders as well as input received from the Minister Responsible for Anti-Racism.

The Independent Reviewer shall deliver the report and recommendations to the Minister of Community Safety and Correctional Services by November 30, 2018, so that the Minister may publish the findings of the review by January 1, 2019 as required by the regulation.

1.5 Other

The Independent Reviewer shall perform his or her duties without expressing any conclusion or recommendation regarding potential disciplinary matters involving any person or the civil or criminal liability of any person or organization, and without interfering in any ongoing criminal, civil or other legal proceeding.

2. Publication

The Independent Reviewer shall ensure that the reports and recommendations referred to in section 1 are in a form appropriate for public release, consistent with the requirements of the *Freedom of Information and Protection of Privacy Act* and other applicable legislation. The Independent Reviewer shall also ensure that the reports are delivered to the minister in English and French at the same time, in electronic and printed forms. Compliance with these requirements will be supported by the ministry, at the discretion of the Independent Reviewer.

3. Property Rights and Confidentiality

The ministry shall be the sole owner of the reports and recommendations developed in accordance with section 1. The Independent Reviewer shall ensure that all reports and recommendations include a copyright notice in the following form: "© Queen's Printer for Ontario," followed by the year of publication.

Any notes, records, recollections, statements made to, and documents produced by the Independent Reviewer or provided to him in the course of the review, will be confidential. The disclosure of such information to Ontario or any other person shall be within the sole and exclusive discretion of the Independent Reviewer.

4. Resources

- a. Within a budget approved by the ministry, the Independent Reviewer may retain such counsel, staff, or expertise he considers necessary in the performance of his duties at reasonable remuneration approved by the ministry, including any experts on data collection and analysis
- b. The Independent Reviewer and his staff shall be reimbursed for reasonable expenses incurred in connection with their duties in accordance with Management Board of Cabinet Directives and Guidelines
- c. The Independent Reviewer shall follow Management Board of Cabinet Directives and Guidelines and other applicable government policies in obtaining other services and goods he considers necessary in the performance of his duties unless, in his view, it is not possible to follow them

- d. The ministry shall, in consultation with the Independent Reviewer, set a budget for the fulfillment of his mandate
- e. All ministries and all agencies, boards and commissions of the Government of Ontario shall, subject to any privilege or other legal restrictions, assist the Independent Reviewer to the fullest extent possible so that the Independent Reviewer may carry out his duties and they shall respect the independence of the review
- f. All police forces, members of a police force, police officers, and municipal police services boards in Ontario should, subject to any privilege or other legal restrictions, assist the Independent Review to the fullest extent possible so that the Independent Reviewer may carry out his duties and they shall respect the independence of the review.

Police Services Act ONTARIO REGULATION 58/16

COLLECTION OF IDENTIFYING INFORMATION IN CERTAIN CIRCUMSTANCES - PROHIBITION AND DUTIES

No amendments.

12.

This is the English version of a bilingual regulation.

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PART I APPLICATION AND INTERPRETATION

Application — attempts to collect

- 1. (1) This Regulation applies with respect to an attempt by a police officer to collect identifying information about an individual from the individual, if that attempt is done for the purpose of,
 - (a) inquiring into offences that have been or might be committed;
 - (b) inquiring into suspicious activities to detect offences; or
 - (c) gathering information for intelligence purposes.
- (2) Despite subsection (1), this Regulation does not apply with respect to an attempted collection made by a police officer for the purpose of investigating an offence the officer reasonably suspects has been or will be committed.
- (3) Despite subsection (1), this Regulation does not apply with respect to an attempt by a police officer to collect identifying information from an individual if,
 - (a) the individual is legally required to provide the information to a police officer;
 - (b) the individual is under arrest or is being detained;
 - (c) the officer is engaged in a covert operation;
- (d) the officer is executing a warrant, acting pursuant to a court order or performing related duties; or
- (e) the individual from whom the officer attempts to collect information is employed in the administration of justice or is carrying out duties or providing services that are otherwise relevant to the carrying out of the officer's duties.

Application — information collected

- 2. (1) This Regulation applies with respect to identifying information collected on or after January 1, 2017 as a result of an attempt to collect to which this Regulation applies.
- (2) This Regulation applies with respect to identifying information that was collected before January 1, 2017 only as provided under paragraph 5 of subsection 12 (1) and under sub-

section 13 (1) in relation to that paragraph.

Non-application — person appointed under the Interprovincial Policing Act, 2009

3. This Regulation does not apply with respect to attempts to collect information by a person appointed as a police officer under the *Interprovincial Policing Act, 2009* or with respect to information collected by such a person.

Interpretation — attempt to collect identifying information

4. For the purposes of this Regulation,

"attempt to collect identifying information about an individual from the individual" means attempt to collect identifying information by asking the individual, in a face-to-face encounter, to identify himself or herself or to provide information for the purpose of identifying the individual and includes such an attempt whether or not identifying information is collected.

PART II PROHIBITION — CERTAIN COLLECTIONS OF INFORMATION

Limitations on collection of certain information

- 5. (1) A police officer shall not attempt to collect identifying information about an individual from the individual if,
- (a) any part of the reason for the attempted collection is that the officer perceives the individual to be within a particular racialized group unless,
 - (i) the officer is seeking a particular individual,
 - (ii) being within the racialized group forms part of a description of the particular individual or is evident from a visual representation of the particular individual, and
 - (iii) the officer has additional information, in addition to information about the particular individual being in a racialized group, that may help to identify the individual or narrow the description of the individual; or
 - (b) the attempted collection is done in an arbitrary way.
- (2) Without limiting what might constitute the additional information required under subclause (1) (a) (iii), such information may consist of information about,
- (a) the appearance of the individual, including information about the individual's clothing, height, weight, eye colour, hair colour or hair style;
 - (b) the location where the individual might be found;
 - (c) the type of vehicle the individual might be found in:
 - (d) the associates the individual might be found with; or
 - (e) the behaviour of the individual.
 - (3) The additional information required under subclause (1) (a) (iii) may not consist

only of the sex of the individual, the approximate age of the individual or both.

- (4) For the purpose of clause (1) (b), an attempted collection by a police officer from an individual is done in an arbitrary way unless the officer has a reason that the officer can articulate that complies with all of the following:
- 1. The reason includes details about the individual that cause the officer to reasonably suspect that identifying the individual may contribute to or assist in an inquiry described in clause 1 (1) (a) or (b) or the gathering of information described in clause 1 (1) (c).
 - 2. The reason does not include either of the following:
- i. that the individual has declined to answer a question from the officer which the individual is not legally required to answer, or
- ii. that the individual has attempted or is attempting to discontinue interaction with the officer in circumstances in which the individual has the legal right to do so.
 - 3. The reason is not only that the individual is present in a high crime location.

PART III DUTIES RELATING TO COLLECTIONS OF INFORMATION

OFFICER DUTIES

Duties to inform before attempting to collect information

- 6. (1) A police officer shall not attempt to collect identifying information about an individual from the individual unless the police officer, in accordance with the procedures developed under section 13,
- (a) has informed the individual that he or she is not required to provide identifying information to the officer; and
- (b) has informed the individual why the police officer is attempting to collect identifying information about the individual.
- (2) A police officer is not required to inform the individual under clause (1) (a) or (b) if the officer has a reason to believe that informing the individual under that clause might compromise the safety of an individual.
- (3) A police officer is not required to inform the individual under clause (1) (b) if the officer has a reason to believe that informing the individual under that clause,
 - (a) would likely compromise an ongoing police investigation;
 - (b) might allow a confidential informant to be identified; or
- (c) might disclose the identity of a person contrary to the law, including disclose the identity of a young person contrary to the *Youth Criminal Justice Act* (Canada).

(4) A reason required under subsection (2) or (3) must be a reason the police officer can articulate and must include details relating to the particular circumstances.

Document for individual

- 7. (1) A police officer who attempts to collect identifying information about an individual from the individual shall,
- (a) offer to give the individual a document that provides a record of the attempt; and
- (b) give the individual such a document if the individual indicates that he or she wants it.
- (2) A police officer is not required to comply with subsection (1) if the officer has a reason to believe that continuing to interact with the individual,
 - (a) might compromise the safety of an individual; or
- (b) might delay the officer from responding to another matter that should be responded to immediately.
- (3) A reason required under subsection (2) must be a reason the police officer can articulate and must include details relating to the particular circumstances.
- (4) The document required under subsection (1) shall contain at least the following information:
- 1. The officer's name and officer identification number and the date, time and location of the attempted collection.
 - 2. Information about how to contact the Independent Police Review Director.
- 3. An explanation that the individual can request access to information about himself or herself that is in the custody or under the control of a police force, under the *Municipal Freedom of Information and Protection of Privacy Act* in the case of a municipal police force, or under the *Freedom of Information and Protection of Privacy Act* in the case of the Ontario Provincial Police, and information about how to contact persons to whom such a request may be given.

Police officer must record reason and other information

- 8. A police officer who attempts to collect identifying information about an individual from the individual shall record the following:
- 1. The officer's reason for the attempted collection, including the details referred to in paragraph 1 of subsection 5 (4).
- 2. Whether the individual was informed as required under clauses 6 (1) (a) and (b) or, if informing the individual under one of those clauses was not required under subsection 6

- (2) or (3), the reason why that was not required.
- 3. Whether the individual was offered the document as required under clause 7 (1) (a) or, if offering the document was not required under subsection 7 (2), the reason why that was not required.
- 4. Whether the individual was given the document offered under clause 7 (1) (a) or, if giving the document was not required under clause 7 (1) (b) or subsection 7 (2), the reason why that was not required.
 - 5. Such other information as the chief of police requires the officer to record.

INCLUSION OF COLLECTED INFORMATION IN POLICE DATABASES

Collected information in police databases

- 9. (1) This section applies with respect to the inclusion, in databases under the control of a police force, of identifying information about an individual collected by a police officer from the individual.
- (2) The chief of police shall ensure that the requirements under this section are complied with.
- (3) Access to identifying information shall be restricted in accordance with subsection (10) unless the information may be included in a database, under this section, without limiting the access of members of the police force.
- (4) Identifying information may be included in a database without limiting the access of members of the police force if,
 - (a) the police officer who collected the information,
 - (i) has indicated that the attempted collection complied with section 5,
 - (ii) has indicated that the individual was informed as required under clauses 6 (1) (a) and (b) or, if informing the individual under one of those clauses was not required under subsection 6 (2) or (3), has indicated the reason why that was not required,
 - (iii) has indicated that the individual was offered the document as required under clause 7 (1) (a) or, if offering the document was not required under subsection 7 (2), has indicated the reason why that was not required, and
 - (iv) has indicated that the individual was given the document offered under clause 7 (1) (a) or, if giving the document was not required under clause 7 (1) (b) or subsection 7 (2), has indicated the reason why that was not required; and

(b) either,

(i) the chief of police or a person designated by the chief of police has determined, after considering the officer's reasons for the attempted collection, including the details referred to in paragraph 1 of subsection 5 (4), that it appears that section 5 was complied with and has ensured that clause (a) has been complied with, or

- (ii) the database indicates that what is required under subclause (i) has not yet been done.
- (5) The following apply if what is required under subclause (4) (b) (i) was not done when the identifying information was included in the database:
- 1. The chief of police or a person designated by the chief of police shall conduct a review, within 30 days after the information was first entered into a database under the control of the police force, to determine, after considering the officer's reasons for the attempted collection, including the details referred to in paragraph 1 of subsection 5 (4), whether it appears that section 5 was complied with and whether clause (4) (a) has been complied with.
- 2. If it is determined that it appears that section 5 was complied with and that clause (4) (a) has been complied with, the indication required under subclause (4) (b) (ii) may be removed.
- 3. If it is not determined, before the end of the 30-day period described in paragraph 1, that it appears that section 5 was complied with and that clause (4) (a) has been complied with, the identifying information shall be retained, subject to the procedures developed under section 13 in relation to paragraph 4 of subsection 12 (1), in a database under the control of the police force but access to such retained information shall be restricted in accordance with subsection (10).
- (6) At least once a year, the chief of police or a person designated by the chief of police shall conduct detailed reviews of an appropriately sized random sample of the entries of identifying information included in a database under subsection (4) to estimate, within a margin of error of plus or minus 5 per cent, at a 95 per cent confidence level, whether it appears that sections 5, 6 and 7 were complied with.
- (7) If, as a result of a detailed review under subsection (6), it is determined, with respect to identifying information included in a database under subsection (4), that section 5, 6 or 7 was not complied with, the identifying information shall be retained, subject to the procedures developed under section 13 in relation to paragraph 4 of subsection 12 (1), in a database under the control of the police force but access to such retained information shall be restricted in accordance with subsection (10).
- (8) The chief of police shall consider the results of the detailed reviews under subsection (6) and take such actions as the chief of police considers appropriate.
- (9) Access to identifying information shall be restricted in accordance with subsection (10) after the fifth anniversary of the date on which the information was first entered into a database under the control of the police force.
- (10) The following apply with respect to identifying information to which access must be restricted:
- 1. No person may access the information without the permission of the chief of police or a person designated by the chief of police.

- 2. A member of the police force may be permitted to access the information only if the chief of police or a person designated by the chief of police is satisfied that access is needed,
 - i. for the purpose of an ongoing police investigation,
 - ii. in connection with legal proceedings or anticipated legal proceedings,
- iii. for the purpose of dealing with a complaint under Part V of the Act or for the purpose of an investigation or inquiry under clause 25 (1) (a) of the Act,
- iv. in order to prepare the annual report described in subsection 14 (1) or the report required under section 15,
 - v. for the purpose of complying with a legal requirement, or
 - vi. for the purpose of evaluating a police officer's performance.

RESTRICTIONS ON PERFORMANCE TARGETS

Performance targets not to be used in evaluating work performance

- 10. A chief of police shall ensure that no performance target based on any of the following factors is used to evaluate the work performance of a police officer on his or her force:
- 1. The number of times, within a particular period, that the officer collects or attempts to collect identifying information about individuals from the individuals.
- 2. The number of individuals from whom the officer collects or attempts to collect identifying information within a particular period.

PART IV OTHER MATTERS

TRAINING

Chiefs of police must ensure training

- 11. (1) A chief of police shall ensure that every police officer on his or her police force who attempts to collect identifying information about an individual from the individual, or who acts as the designate of the chief of police under section 9, has successfully completed the training required under this section within the previous 36 months.
- (2) The training referred to in subsection (1) shall include training on the following topics:
- 1. The right of an individual not to provide information to a police officer, the limitations on this right and how to ensure that this right is respected.
- 2. The right of an individual to discontinue an interaction with a police officer, the limitations on this right and how to avoid unlawfully psychologically detaining an individual.

- 3. Bias awareness, discrimination and racism and how to avoid bias, discrimination and racism when providing police services.
- 4. The rights that individuals have to access information about themselves that is in the custody, or under the control, of a police force.
 - 5. The initiation of interactions with members of the public.
 - 6. This Regulation and its application.
- (3) The training referred to in subsection (1) shall be provided at the Ontario Police College or by a trainer who has been trained, at the Ontario Police College, to provide the training referred to in subsection (1).
- (4) The training referred to in subsection (1) shall be based on a curriculum approved by the Director of the Ontario Police College.

POLICIES AND PROCEDURES

Boards and Minister must develop policies

- 12. (1) A board shall develop policies regarding the following matters:
- 1. The document to be given to individuals under section 7.
- 2. The contents, in relation to matters to which this Regulation applies, of the annual report described in subsection 14 (1).
 - 3. The report required under section 15.
- 4. The retention of, access to, and disclosure of identifying information collected on or after January 1, 2017, including the retention of identifying information collected contrary to this Regulation.
- 5. The retention of, access to, and disclosure of identifying information collected before January 1, 2017 with respect to which this Regulation would have applied had the collection taken place on January 1, 2017.
- (2) The policy developed under paragraph 4 of subsection (1) shall provide that identifying information collected contrary to this Regulation shall not be retained longer than is reasonably necessary to ensure the information is available in the circumstances in which access may be permitted under paragraph 2 of subsection 9 (10).
- (3) The duties imposed by subsections (1) and (2) on boards in relation to municipal police forces apply to the Minister of Community Safety and Correctional Services in relation to the Ontario Provincial Police.
 - (4) The policies developed under this section shall be consistent with this Regulation.

Chiefs of police must develop procedures

- 13. (1) A chief of police shall develop procedures regarding the matters set out in subsection 12 (1).
- (2) The procedures developed under subsection (1) shall be consistent with this Regulation and the relevant policies developed under section 12.

REPORTS, REVIEWS AND COMPLIANCE

Annual report

- 14. (1) This section applies to,
- (a) an annual report provided by a municipal chief of police to a board under section 31 of Ontario Regulation 3/99 (Adequacy and Effectiveness of Police Services) made under the Act; and
- (b) the annual report provided by the Commissioner under subsection 17 (4) of the Act.
- (2) A chief of police shall ensure that his or her annual report includes the following information in relation to attempted collections of identifying information:
- 1. The number of attempted collections and the number of attempted collections in which identifying information was collected.
 - 2. The number of individuals from whom identifying information was collected.
- 3. The number of times each of the following provisions was relied upon to not do something that would otherwise be required under subsection 6 (1):
 - i. subsection 6 (2),
 - ii. clause 6 (3) (a),
 - iii. clause 6 (3) (b), and
 - iv. clause 6 (3) (c).
- 4. The number of times an individual was not given a document under clause 7 (1) (b) because the individual did not indicate that they wanted it.
- 5. The number of times each of the following clauses was relied upon to not do something that would otherwise be required under subsection 7 (1):
 - i. clause 7 (2) (a), and
 - ii. clause 7 (2) (b).
- 6. The number of attempted collections from individuals who are perceived, by a police officer, to be within the following groups based on the sex of the individual:

- i. male individuals, and
- ii. female individuals.
- 7. For each age group established by the chief of police for the purpose of this paragraph, the number of attempted collections from individuals who are perceived, by a police officer, to be within that age group.
- 8. For each racialized group established by the chief of police for the purpose of this paragraph, the number of attempted collections from individuals who are perceived, by a police officer, to be within that racialized group.
- 9. A statement, based on an analysis of the information provided under this subsection, as to whether the collections were attempted disproportionately from individuals within a group based on the sex of the individual, a particular age or racialized group, or a combination of groups and if so, any additional information that the chief of police considers relevant to explain the disproportionate attempted collections.
- 10. The neighbourhoods or areas where collections were attempted and the number of attempted collections in each neighbourhood or area.
- 11. The number of determinations, referred to in subsection 9 (5), that section 5 or clause 9 (4) (a) was not complied with.
- 12. The number of determinations, referred to in subsections 9 (6) and (7), that section 5, 6 or 7 was not complied with.
- 13. The number of times members of the police force were permitted under subsection 9 (10) to access identifying information to which access must be restricted.
- (3) A chief of police shall establish age groups for the purpose of paragraph 7 of subsection (2).
- (4) A chief of police shall establish racialized groups for the purpose of paragraph 8 of subsection (2) and shall do so in a way that allows the information required by subsection (2) relating to the racialized groups to be comparable to the data referred to in the following paragraphs, as released by the Government of Canada on the basis of its most recent National Household Survey preceding the period covered by the chief of police's annual report:
- 1. For each derived visible minority group set out in the National Household Survey, the number of individuals who identified themselves as being within that group.
 - 2. The number of individuals who claimed Aboriginal identity.
- (5) This section does not require the inclusion of information about anything that occurred before January 1, 2017.

- 15. (1) If an annual report referred to in section 14 reveals that identifying information was attempted to be collected disproportionately from individuals perceived to be within a group or combination of groups, the chief of police shall review the practices of his or her police force and shall prepare a report setting out the results of the review and his or her proposals, if any, to address the disproportionate attempted collection of information.
- (2) A municipal chief of police shall provide his or her report to the relevant board, and the Commissioner shall provide his or her report to the Minister of Community Safety and Correctional Services.
- (3) When a board receives a report from a municipal chief of police under subsection (2), and when the Minister of Community Safety and Correctional Services receives a report from the Commissioner under subsection (2), the board or the Minister, as the case may be,
- (a) shall publish the report on the Internet in a manner that makes it available to the public free of charge and may make the report available to the public free of charge in any other manner that the board or the Minister, as the case may be, considers appropriate; and
- (b) shall consider the report and the proposals, if any, set out in the report and consider, in the case of a board, whether to give directions under clause 31 (1) (e) of the Act or, in the case of the Minister, whether to give directions to which the Commissioner would be subject under subsection 17 (2) of the Act.

Chiefs of police must make records available

- 16. (1) For the purpose of carrying out a duty, or exercising a power, under clause 3 (2) (b), (d), (e) or (h) of the Act, in relation to matters to which this Regulation applies, the Minister of Community Safety and Correctional Services may request a chief of police to provide any relevant information that is in the possession or under the control of the chief of police's police force.
- (2) A chief of police shall comply with a request made under subsection (1) and shall do so in the manner specified by the Minister.

Review of Regulation

17. (1) The Minister of Community Safety and Correctional Services shall ensure that a review of this Regulation is conducted and that a report on the findings of the review is published no later than January 1, 2019.

Review not by a government employee

(2) The Minister shall ensure that the person who conducts the review is not a public servant within the meaning of the *Public Service of Ontario Act*, 2006 and is not employed in the Office of the Premier or in the office of a minister.

Consultation with Minister Responsible for Anti-Racism

(3) The Minister shall ensure that the person who conducts the review consults with the Minister Responsible for Anti-Racism.

PART V (OMITTED)

18. Omitted (provides for coming into force of provisions of this Regulation).

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REGULATION APPLIES

Currently

Inquiries

No reasonable suspicion but objectively suspicious conduct or potential offence

Police can request ID information

Regulation applies if request for ID information

No obligation to provide ID information

Individual is free to go

Intelligence Gathering

No reasonable suspicion or suspicious conduct or potential offence required

Police can randomly request ID information

Regulation applies if request for ID information

No obligation to provide ID information

Individual is free to go

Proposed



Focused Inquiries and Intelligence Gathering

No reasonable suspicion but objectively suspicious conduct or potential offence or focused intelligence gathering

Police can request ID information but not randomly

Regulation applies if request for ID information

No obligation to provide ID information

Individual is free to go

REGULATION DOES NOT APPLY

(Currently or Proposed)

Community Interactions



No suspicion

Police can request ID information

No obligation to provide ID information

Individual is free to go

Investigations Generally



Reasonable suspicion that offence committed or will be committed

Police can request ID information from potential witnesses and suspects

No obligation to provide ID information

Individual is free to go

Investigative Detention



Reasonable suspicion that a particular individual committed an offence

Police can request ID information

No obligation to speak to police

Individual is detained and not free to go

Arrest (or Other Lawful Authorities to Request ID Information)



Reasonable and probable grounds (or pre-conditions for the lawful authority)

Police can request ID information

Obligation to provide ID information

Individual is not free to go