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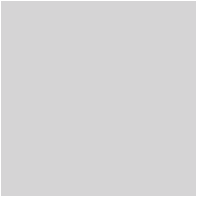
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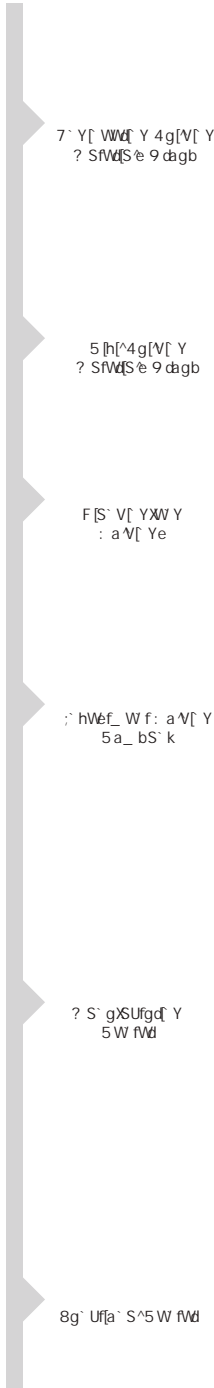
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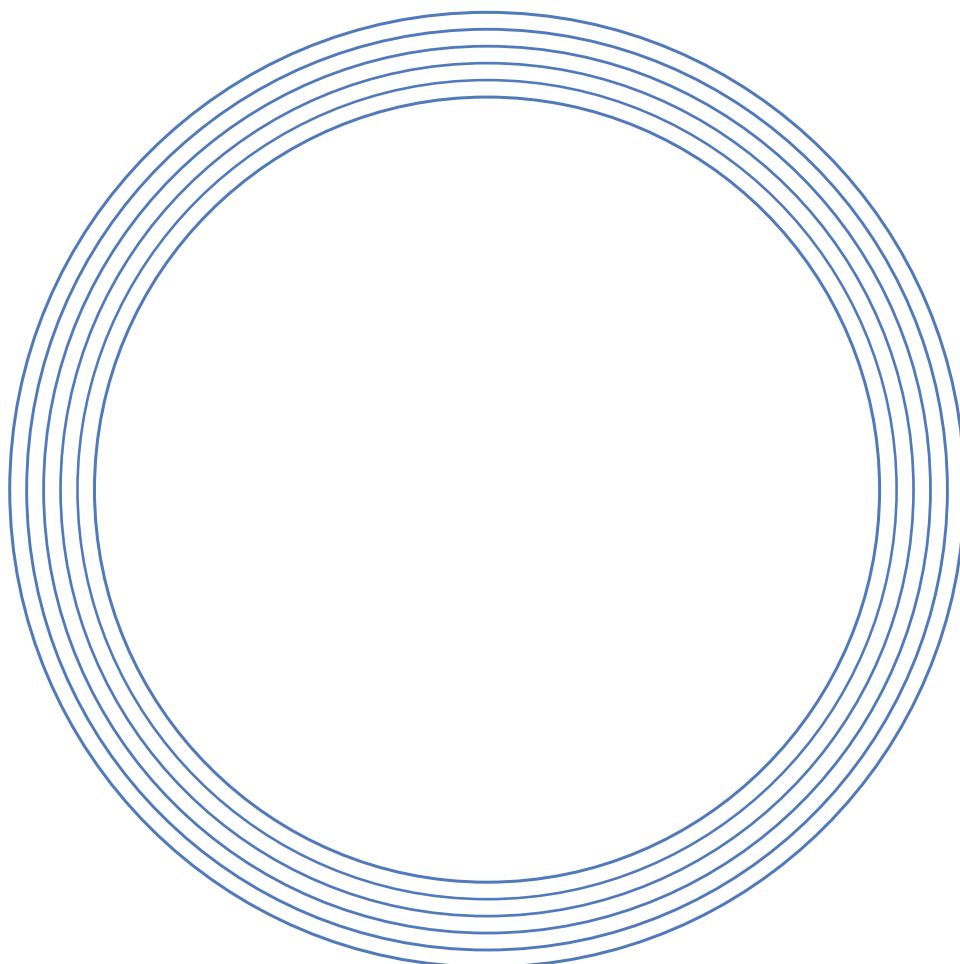
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Environmental and Social Governance (ESG) Strategy



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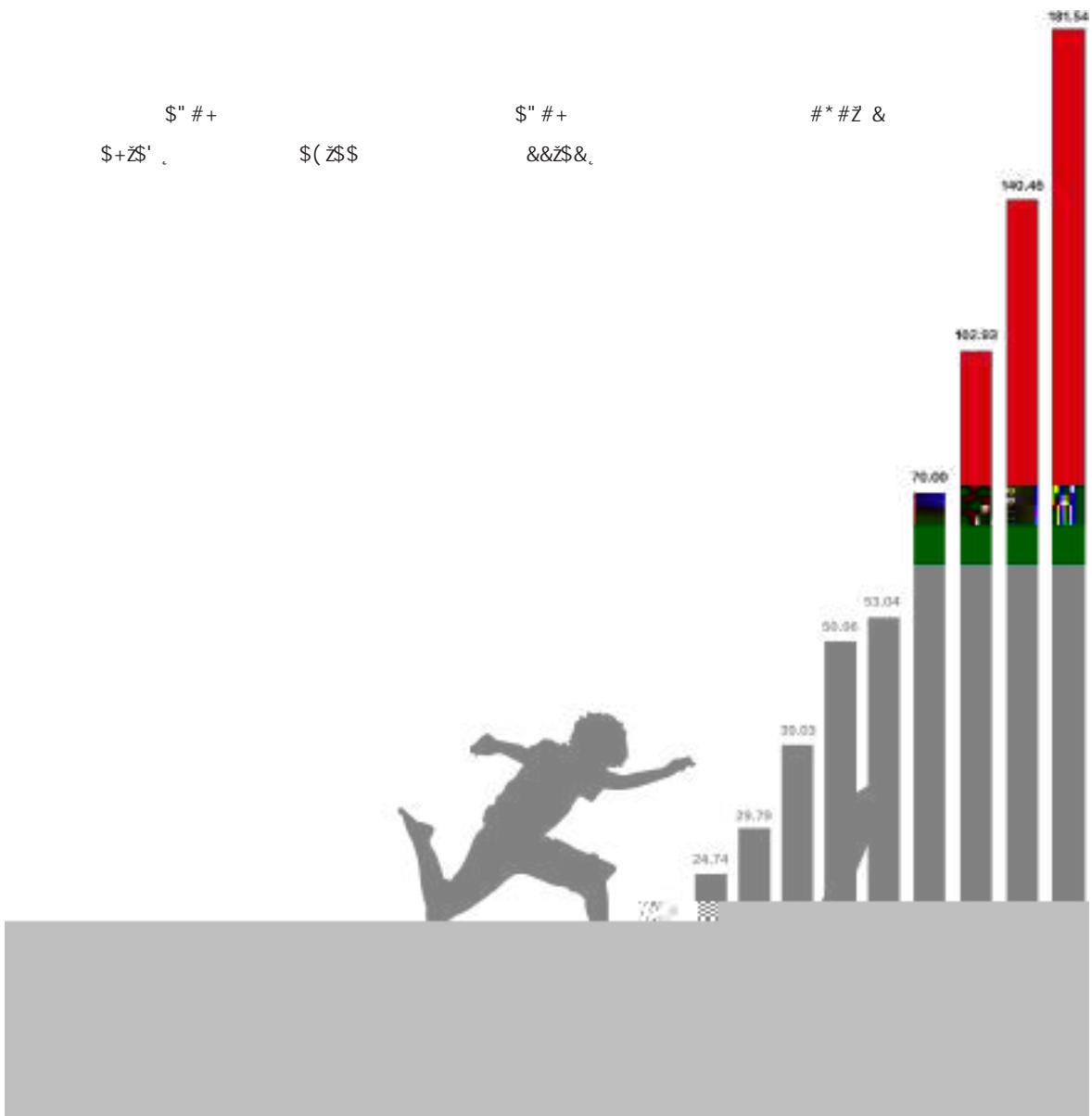


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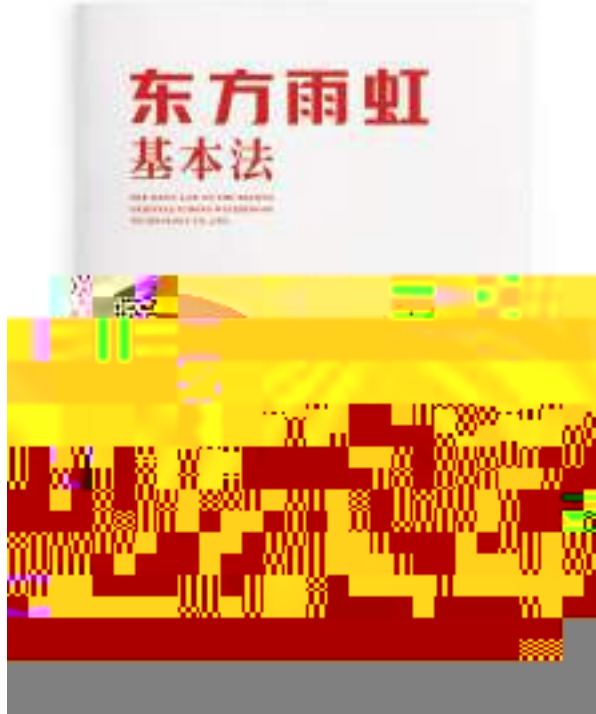




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FZWW\_ b`akVWfdS` [ Y ZSe TWV USd[VW agf [` SUUadVS` UWi [fZ fZWdWeg fZadW fW bdf` U[bW S` V S^`WhWe aX\_ g fZ UZS` `W`fdS` [ Y SdWUa\_ T[ VW fa W ZS` UWW\_ b`akVWUa\_ bWV UW A d[W fS^KgZa` Y ZSe Ua` f` gW fa [ bW\_ W f S efS` VSdV || VW Ua` efdgUfja` eVh[UWekefW\_ [ S` S`Z`dag` V i Skf [ bdahW bdaXWee[a` S^eVh[UWUSbST`[f[Ve fZdagYZ bdaXWee[a` S^fdS` [ Y S` V \_ S` SYW\_ W f Ug`f[hSfW S` V efdW YfZW W S` [ Vgefd[S^Ua` efdgUfja` fVb\_ i [fZ Y`aTS^ Ua\_ bVf[fhW Weež 4k efdW YfZW [ Y fZWdVWSDJZ S` V VWhWab\_ W f aXbdaVgUfe` Sbb[VW fWUZ` a`aY[Vet` Ua` efdgUfja` Vcg[b\_ W f S` V bdaVgUfja` fWUZ` a`aY[Vet` WUž fZWUa\_ bS` k ZSe XgdfZWd W ZS` UW fZW [ fVd Sfja` S^fWUZ` a`aYk dVWSDJZ S` V VWhWab\_ W f efdW YfZ S` V [ `ahSfja` USbST`[f[Vež





;/;fi? S`SYW\_ W f? WUZS` [e\_

A` fZWTSe[e aXefUf Ua\_ b[S` UWi [fZ fZWadY[ S^ekefW\_ dWg`Sf[a` e[ A d[W fS^KgZa` Y XgdZWd [ bcahV` [fe UadbadSfW YahVf S` UWefdgUfgdW Ua\_ b[V` i [fZ fZWeau[S^VfZ[Ue[ Tge[ V`e WFZ[Ue[ Ua` efS` f`k bVdWUfe fZWekefW\_ aXTaSdV aX V[dWUfade S` V TaSdV aXegbWch[eade[ S` V [ bcahV` fZWUa\_ bS` kie eU[W f[XU\_ S` SYW\_ W f`WhWz

A d[W fS^KgZa` Y WefST`[eZV` YW WdS^eZSdVZa`VWde \_ VWF[ Y[ TaSdV aXV[dWUfade[ TaSdV aXegbWch[eade[ [ VVbW VW f V[dWUfade[ S` V eWUdWfSck aXfZWTaSdV aXV[dWUfade ekefW\_ f i [fZ U`Wsd Xg` Uf[a` e S` V bai Wde[ abWdSf[a` [ UaadV[ Sf[a`

I WZShWxg X^W fZWTSe[U bQ U]b^V aXA dW fS^KgZa` Yl bda fWUfW fZW[ fWdVefe aX[ hVefadeI W egdW fL WkI SUUgdSfWkI YW g[ WkI S` V Ua\_ b^Wk V[eU^egdWaX[\_ badS` f [eegV^ dWSfW i [fZ fZWUa\_ bS` k SUUadV[ Y fa ^Si e S` V dWg^Sfja` eZ 3` V i WZShWW egdW fZWagfe[VW]` ai e fZW^ S` UW abWdSfja` I S` V \_ S` SYW\_ W faXA dW fS^KgZa` Y [ fL Wz

I WZShWUa` f[ gage^k abfL [ W fZWekefW\_ VaUg\_ W fe aXA dW fS^KgZa` Yz 3UUadV[ Y fa fZWS^fWdSfja` aXdWWhS` f ^Si et fZWekefW\_ e dWSfW i [fZ agdefS` VSdV abWdSfja` e i WdWeadVWl S` V ea\_ WScf[U^V i WdW[\_ bda hVWz;` SVV[fja` I SUUadV[ Y fa fZWdVg[dV\_ W fe aX^Si e S` V dWg^Sfja` et fZWVj S\_ [ Sfja` S` V Sbbda hS^bda UWgdV^ aXfZW4aSdV aX6 [dWUfade S` V fZW eZSdVza VVdUa` XdW UWi WdWUSd[VW agfz

SUUg



;) adVWd fa WegdWfSj bSk\_ W f SUUadV[ Y fa 'Si et A dW fS^KgZa` Y USdQW agf fSj ]` ai ^WYWfS[ [ Y dWg'Sdkz;f ZSe  
adYS` [l W X] S` U[S^VWbSd\_ W f fa USdk agf ^MSd [ Y S` V V[eUgee[a` f Ua` f] gage`k [ bdahVW Ua` f] gage`k [ bdahVW fZW  
bdaxWe[a` S^cgS ffk aXX] S` U[S^\_ S` SYW\_ W f bWde` ` W^fa WegdWfZW(d bdaxWe[a` S^e] [e US` U^aeWk Xa`ai fZWbSUW

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4k h[dfgWaXWj UWW f bdaVgUfe S` V eWh[UWet A dW fS^KgZa` Y ZSe i a` fZWdWUaY` [fja` aXdMS^WefSfWfcdSVWg` [a` e S` V [ Vgefck SeeaU[Sfja` eZ Ea\_ WZa` ad: i a` Tk A dW fS^KgZa` Y [ \$" #+ SdWSe Xa`ai e,

3gfZadfk	: a` ad
FZWE fSfWaX5ag` U[^	E WUa` V Bd  WaX@Sfja` S^E U[W UWS` V FWUZ` a`aYk BdaYdWee 3i SdV
5Z[ S @Sfja` S^4g[V[ Y I S fWbdaaX3eeaU[Sfja`	9a`VW 3i SdV aX<[ kg 3i SdV E [hWd3i SdV aX<[ kg 3i SdV
5Z[ S 4g[V[ Y ? S fWdSe 7` fWbdeW? S` SYW_ W f 3eeaU[Sfja` t	\$" #+                    \$" \$" #+ Fab \$" 5Z[ WeWTg[V[ Y _ S fWdSe W fWbdeWe \$" #+                    # " "
5Z[ S 4g[V[ Y ? S fWdSe ; Vgefck B`S` [ Y ;` efffgfW	I a` [geZS` i a` fZWZa` ad 5Z[ S e Fab # " " dSb[VkZ`Ydai [ Y Tg[V[ Y _ S fWdSe W fWbdeWe
5Z[ S @Sfja` S^;` efffgfWaXE fS` VSdV  Sfja` 5Z[ S 7` Wdk 5a` eWhSfja` 3eeaU[Sfja`	5 a`badSfWefS` VSdV` MSVVd UWf[XUSfW
5Z[ S I SdVZage[ Y S` V 6 [efdTgffa` 3eeaU[Sfja`	5Z[ S 9 dWV I SdVZage[ Y S` V 6 [efdTgffa` FWUZ` a`aYk ;` ahSfja` 3i SdV
5Z[ S DWs^7efSfW3eeaU[Sfja` t 7j UWW f BdaUgdW_ W f B`Sfjad_	4W UZ_ Sd  W fWbdeW S`` gS^ SdJ [fWUfgdWT`SU] fWUZ` a`aYk ž



<p>5 Z[ S D V S ^ 7 e f S f W 3 e e a U [ S f j a `</p> <p>5 Z[ S D V S ^ 7 e f S f W 7 h S ` g S f j a ` 5 W f W d</p> <p>E Z S ` Y Z S [ 7 Z : a g e W D V S ^ 7 e f S f W D W e W S d J Z ; e f f j g f W</p>	<p>F a b ' b d a X f S T ` W [ e f W U a _ b S ` [ W e</p>
<p>5 Z[ S D V S ^ 7 e f S f W 3 e e a U [ S f j a `</p> <p>5 Z[ S D V S ^ 7 e f S f W 7 h S ` g S f j a ` 5 W f W d</p> <p>E Z S ` Y Z S [ 7 Z : a g e W D V S ^ 7 e f S f W D W e W S d J Z ; e f f j g f W</p> <p>5 Z[ S D V S ^ 7 e f S f W D W e W S d J Z 3 e e a U [ S f j a `</p> <p>5 Z[ S D V S ^ 7 e f S f W 3 e e a U [ S f j a `</p> <p>5 Z[ S D V S ^ 7 e f S f W 7 h S ` g S f j a ` 5 W f W d</p>	<p>' " "</p> <p>F a b e g b b [ W d S ` V e W h [ U W b d a h [ V W d T d S ` V a X F a b ' " " V W h W a b _ W f W f W b d e W e</p> <p>8 [ d e f b d W W d W i S f W b d a a X ` Y _ S f W d S ^ T d S ` V / A d W f S ^ K g Z a ` Y f i</p> <p>8 [ d e f b d W W d W [ e g S f j a ` _ S f W d S ^ T d S ` V / 1 a ` [ g e Z S ` f i</p> <p>8 [ d e f b d W W d W Z [ Y Z Z W V i S f W d T S e W b S [ f T d S ` V / 5 S b S d a f i</p> <p>@ a z &amp; b d W W d W f [ W S V Z W e [ h W T d S ` V / : g S e Z S f i</p> <p>@ a z # V a g T W Z b S U ] S Y W e W h [ U W b d a h [ V W d a X V [ S f a _ _ g V U a ` e f d g U f j a ` _ S f W d S e / &gt; g a V [ f i</p> <p>8 [ d e f b d W W d W e b W U ] S ^ b d a V g U f / A d W f S ^ K g Z a ` Y 4 g [ V [ Y D W a h S f j a ` t 5 S b S d a f i</p>
<p>4 g [ V [ Y I S f W b d a a X 4 d S ` U Z a X 5 Z [ S 5 a ` e f d g U f j a ` ; V g e f c k 3 e e a U [ S f j a `</p>	<p>\$ " # +</p> <p>&gt; [ e f W [ f a I Z [ f W B S b W e a X : [ Y Z Z c g S f r k 7 ` Y [ W W d Y I S f W b d a a X ? S f W d S e S ` V F W U Z ` a ` a Y [ W e / \$ " # + 7 V [ f j a ` f i</p>

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;" \$" #+ A d[W fS^KgZa` Y VefST^eZW `a` YZfWd\_ S` V efST^WefcSfW[U UaabWcSfa` dWsf[a` eZ[b i [fZ HS` ]WDVb^ 7efSfW5ag` fck 9Sd/W S` V 7hWdYdS` VW9dgbzEa\_ WZa` adē i a` Tk A d[W fS^KgZa` Y [ \$" #+ i [fZ agferS` V[ Y bcdXWe[a` S^eWch[UWē SdWSe Xa^ai e,

Customer	Honors & titles
7hWdYdS` VW9dgb	3` `gS^Wj UW^W fegbb^Wd
Bai Wd`a` Y DVb^7efSfW	E fcdSfW[U 5aabWcSfa` 3i Sd/ f 7j UW^W fCgS^fk 3i Sd/
HS` ]W9dgb	3 3 ^hWegbb^Wd
5ag` fck 9Sd/W	3` `gS^Wj UW^W fegbb^WdSi Sd/
LZW Yd`a` Y DVb^7efSfW	4WefbSd^ WdSi Sd/
9dWw fai ` 5Z[ S	3 3 ^hWegbb^Wd
Eg` SU 5Z[ S	7j UW^W fegbb^Wd
5Z[ S E Z[bb[ Y DVb^7efSfW	3` `gS^3Z` ^hWUW fcd^ W egbb^Wd
D` 8 9 dgb	7j UW^W f bSd^ Wd egbb^Wd
55D7 DVb^7efSfW	3` `gS^TWef eWch[UWsi Sd/
J gZg[9 dgb	7j UW^W f efdSfW[U egbb^Wd
EZ[ Sa 9 dgb	E bWU[S^Ua` fd[Tgf[a` Si Sd/ aXefcSfW[U egbb^Wd
9S^Sj k DVb^7efSfW	7j UW^W fegbb^Wd
5Z[ S ? WdZS` fe DVb^7efSfW	4WefW Y[ Wd[ Y UaabWcSfadSi Sd/
5Z[ S ? WdZS` fe EZW]ag	3 7j UW^W fegbb^WdaXefcSfW[U UaabWcSfa` 3` `gS^3Z` ^hWegbb^Wd
F[ Wē 5Z[ S	3 3` `gS^3Z` ^hWegbb^Wd



/HfiE fdUf C gS {fk 5 a` fcb^



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;" \$" #+ A dW fS^KgZa` Y Ua` f[ gW fa h[W ahVdeVSe \_ Sd] Wf Se S` [ badS` f bSdf aX[ fWd Sfja` S^efcSfWkz 3 UUadV[ Y fa fZWVpXNdW f[SfW` SkagfaXahVdeVSe \_ Sd] Wf A dW fS^KgZa` Y \_ SVVWpXNdW fVj fWd S^S` V [ fWd S^VWhWab\_ W fefcSfW [V6z A dW fS^KgZa` Y V6fST feZVW ahVdeVSe D` 6 b`SfAd\_ S` V \_ SVW\_ adWS` V \_ adW[ fWd Sfja` S^Vj UZS` YWS` V UaabWdSfja` z Ea Xsd [fe` W` e ZSe TVWV dWbadfW Tk ahVdeVSe \_ S[ efdVSe \_ VW[S egUZ Se 4`aa\_ TWdYf 3eeau[SfW BdV6e S` V DVj fVdež Ba`ai [ Y fZW[ bW\_ W fSfja` aX\_ S` k [ fWd Sfja` S^\_ VSegdV6t A dW fS^KgZa` Y ZSe Wj bS` VW [fe [ XgW UW[ fZW [ fWd Sfja` S^\_ Sd] Wfz



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I [fZ fZW[ bW\_ W fSfja` aXA dW fS^KgZa` Yie [ fWd Sfja` S^efcSfWkI fZWbdaVgUfe aXUa\_ bS` k SdWVj badfW fa \_ adWfZS` # " " Uag` fdV6e S` V dWYja` e egUZ Se 9 Wd\_ S` kI 4dSI [† 3gef6SfSI fZWG` [fW E fSfV6t 5S` SVSI Dgee[SfI <SbS` I E [ YSbadW EagfZ =adVSI 5W fdS^3X[US S` V EagfZ 3X[USz

Example :

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FZWa^ai [ Y SdWea\_ WaXfZW\_ S^ad[ fWd Sfja` S^bdaWUfe g` VWdFS] W Tk A dW fS^KgZa` Y [ \$" # +

@S_ WaXBdaWUf	BdaVgUfEkefW_	BdaWUf: `XgW UW
=ScSUZ[ `gUWdbai Wd bS` fl BS] [efS`	FBA I FBA I daU] i aa^TaSdV	FZWB S] [efS` =ScSUZ[ `gUWdbai Wd bS` fUa` efcgUfja` bdaWUf [e S UaabWdSf[hWbdaWUfTWf VWV 5Z[ S S` V BS] [efS` ž;f [e S` [ _ badS` fSUZ[VhW_ W faX5Z[ S e [ bW_ W fSfja` aXfZW 5Z[ SŽBS] [efS` 7Ua` a_ [U5ad[Vad S` V fZW 4WfS` V DaSV [ [fSf[hW S^ea S` [Ua` [U bdaWUf aX5Z[ S e` gUWdbai Wd Ya[ Y agf efdSfWkž
BZSeW;; BSd] [ Y 3bda` aX 7fZ[ab[S` Ba Sda[V 3[cbad	KE \$" \$	Ba Sda[V;` fWd Sfja` S^3[cbad[ [e `aUSfW [ 3VV[e 3TSTSI fZW USb[fS^aX7fZ[ab[Sž;f [e fZW_ S[` Sh[Sfja` ZgT aX7fZ[ab[S` 3[d[ Wd i [fZ daggfW S^ahWd fZWUag` fck S` V fZW3X[US` Ua` f[ W fl S^ea Wj fW V[ Y fa 3e[SI 7gda bWS` V @adZ 3_ WdUSž
: a` Y =a` YŽLZgZSŽ ? SUSa 4dVYW? SUSa BadZahWdSe bSd] [ Y YScSYWbdaWUf	E 3? + \$" 3D5 E 3? + \$" ` a` Ž UgdW 3D5 daafZ bg` UfgdWdW[efS` UW	FZWdWeg` fe aXfZWS` ` gS^TWefS` V agfefS` V[ Y W Y[ WUd[ Y bdaWUfe eWUfW Tk GE 3 7` Y[ WUd[ Y @W e DWUadV i WdW S` ` ag` UWž FZWbdaWUf aX: a` Y =a` YŽLZgZSŽ? SUSa 4dVYW ? SUSa Bad? S` SYW_ W fLa` Wi Se dSfW Se S` agfefS` V[ Y S[cbad S` V bad bdaWUfz
>Sae FH efSfja` dW ahSfja` bdaWUf	4BE \$" \$ Bd_ Sck fdWf_ W fSYW f	



<p>3Xad/STWZage[ Y [ @W LWS`V</p>	<p>E 4E 4BE \$" \$ E 3? + \$" E 4E 4BE \$" \$ TSeWfdWsf_ W fSYW f</p>	<p>FZ[e [e S` afZVdXdWY` S[V bdaWUf [ adVdffa [ b^W_ W f 5Z[ S e 4Wf S` V DaSV [ [f[Sf]hWS` V fZW Ya[ Y agf efcSfWk aXdSV[a] X^ S` V fWWh[e]a` Ug^fgdW [ adVdffa W ZS` UW 5Z[ S e [ fWd Sfa` S^bgT [U]fk USbSU[fkz</p>

### I [ Ži [ 5aabWdSfja`

:` ŕ Wi [fz fZWUa` UWbf aXWcGsfk S` V i [ Ži [ UaabWdSfja` † A dW fS^KgZa` Y USddW agf ZfYZŽW V UaabWdSfja` i [fz bSdf Wde† \_ S[ fS[ Ww efST^WS` V VVU[W f egbbk UZS[ † Ua` fl` gS^k bda\_ afWw fZWUa` UWbf aXUadbadSfWeau[S^dMeba` eT[ffk fa egbbWdbSdf Wde† SUfhWk Vj bS` VVW fZWVhWab\_ W f ebSUWaxfZWUa\_ bS` k[ fe bSdf Wde S` V fZW[ Vgefkd fa `a[ fk UabW i [fz UZS^W YWē aXfZWhSdage fkbVē aXW h[da` \_ W fe S` V eaUWkž I [fz TdS` V dMeba` eT[ffk Se [fe bZ[āeabZkl A dW fS^KgZa` Y bda[hVWw Ugefa\_ Wde i [fz fZWi Za Wž bdaUWēē† \_ g fV[ W e[ā` S† S` V VVWb Ua\_ \_ g: [USfja` cgS ffk eWhUWēž

A dW fS^KgZa` Yie \_ S^adSi \_ SfWdS^egbbWde SdWVj UW^W f Va\_ WefU S` V XadWY` W fWbdeWē egUZ Se 5@B5† E[ abWUf 5WS` WēW 43E8† I SU] W† 4SeW >3@J 7EE† KS` fS[† S` ZgSt >[5ZS` Yda` Y† WUž 3XWdkWScē aXUaabWdSfja` † fZWUa\_ bS` k i W f [ fa UāeWefcSfWw [U dWsfja` eZ† b i [fz fZWSTahW\_ W fja` Ww Ua\_ bS` [Wē† S` V [f [e a` WaXfZW^Sd^Wef U†W fe aXfZaeW W fWbdeWēž

5W fcd† Ww bgdJZSe[ Y [e S \_ S^adbgdJZSe[ Y \_ aVWaXA dW fS^KgZa` Yž I [fz YāTS† Sfja` † [ Xad\_ Sfl† Sfja` † eg` eZ[ W bdaUgdW\_ W f S` V egerS[ ST^VWVhWab\_ W f Se \_ S` SYW\_ W f Ua` UWbfē† A dW fS^KgZa` Y \_ SVWi [ Ži [ VVhWab\_ W f i [fz [fe gbefdQ g™ ggWWW



A dW fS^KgZa` Y ZSe [ fdaVgUWw g` S` ` ag` UW [ ebWUfja` ekefW\_ [ fa fZWbdaUWée \_ S` SYW\_ W fi Ua` fda`^Ww fZWcgS`fk  
Xba\_ fZWbWébWUf`hWaXfWUZ` a`aYk dWéWsdJZ S` V VWhWab\_ W fi bdaUWée Ua` fda` i SdWZage[ Y S` V` aY[efUež; fZSe S`ea  
USd[W agf\_ g`fZV\_ W e[aj` S^UaabWsfja` S` V Wj UZS` YWé [ fWUZ` a`aYk TWéf bdsUf[UWé] W h[ca` \_ W fS^bdaWUfja` f WUž  
;` SVV[fja` f A dW fS^KgZa` Y SVabfe S egbbad`hWSff[fgVWfai SdVe e\_ S^S` V \_ WW[g\_ Že[] WW egbb`Wéž I [fZ [fe UWsd  
Tds` V bae[fja` [ Y S` V Xad SdZ`aa][ Y bdaUgdW\_ W f efcSfWk[ [fZSe See[efW bSdf` Wé [ ea`h[ Y X` S` U[ Y S` V UadbaSfW  
abWsfja` bdaT`W\_ e[ bda h[VW Ua\_ bdaZW e[hWfWUZ` [US^egbbad`f S` V SUZ[VhWw i [ Ži [ VWhWab\_ W fž

;` h[W` aXfZWWW\_ S` V Tk S i [VWds` YWaXW VZUa` eg\_ Wé XadZ[YZŽcgS`fk i SfWbdaaXbdaVgUfel A dW fS^KgZa` Y \_ S] Wé  
[feWXSUUWée[T`Wfa fZWadV[ Sck Za\_ Wé fZdagYZ fZageS` Ve aXefadWé aXfZW Sd`WZ`eUS`WVa\_ Wéf[U agfXf Ua\_ bS` [Wé S` V  
Tg[V[ Y \_ SfW[S`é \_ Sd] Wef egUZ Se KW ahSt =gaVSt 7SekZa\_ W 9a`V\_ S` f[e WUž

### 1 Example 1:

BdaUgdW\_ W f Egbb`k 5W fWd Ua` f[ gage`k [ bda hWé [ fWd S^eVch[UWcgS`fki S` V [e VWW[USfW fa fZW[ Xad\_ Sf[] Sfja` f  
Z[YZ WU[W Uk S` V bdaWé[aj` S`fe\_ aXegbb`k UZS[ \_ S` SYW\_ W fž Fsd`Wf[ Y fZW\_ [ [ g\_ fafS^Uaef aXai` WéZ[bt  
A dW fS^KgZa` Y Ua` f[ gage`k [ bda hWé fZWegbb`k UZS[ \_ S` SYW\_ W f USbST[fk aXBdaUgdW\_ W f 6Wbž aX`aUS^  
bS` fež; f abf[ [ W hSd[age \_ S` SYW\_ W f [ V[USfad` S` V bWad\_ S` UWWhS`gSfja` bS` e[ S` V \_ SVWdWeg`fZad`W fW  
[ bda hW\_ W f aX\_ S` SYW\_ W f WU[W Uk aXegbb`k UZS[ ž 8da\_ fZWbWébWUf`hWaXbdaUgdW\_ W f \_ S` SYW\_ W f \_ aVW  
egbb`k [W bWad\_ S` UW S` V efcSfW[U egbb`k Ua` efcgUfja` f WUž A dW fS^KgZa` Y ZSe WéST`eZWW S Z[YZŽWU[W Uk  
egbb`k UZS[ f \_ SVW`a[ f VWhWab\_ W f fa bda\_ afWfZWUa` f[ gage gbVSfWax[ Vgefck fWUZ` a`aY[Wé] Ua` f[ gage  
[ bda hW\_ W f aX\_ g`fZV\_ W e[aj` S^egbb`k UZS[ f ea Se fa i [ fZWdWébWUf` aXfZW[ Vgefck bWé S` V Ugefa\_ Wéž FZVK  
ZShWy dai` [ fa bSdf` Wé i [fZ Ua\_ \_ a` hS`gWé S` V SUZ[VhWw i [ Ži [ egUWéž

## 2 Example 2:

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A`3bq[^#\*! \$" #+! A d[W fS^KgZa` Y I SfWbcbdaaXFWUZ` a`aYk 5až >fvž S` V I SU] Wd 5ZW [W39 S` ` ag` UWW fZW WefST[eZ\_ W f aXS `a[ f `STadSfack S` V ZWW fZWg` hW[† Y UWdW\_ a` kž FZWTafZ Ua\_ bS` [Mē i [^USdtk agf [ ŽVWbfZ UaabWdSf[a` [ TSe[U dWēVdSdJZ S` V Sbb†USf[a` e aXi SfWbcbdaaX` Y UaSfl [ ` adVWd fa bca\_ afWfZWdWēVdSdJZ S` V VVhWab\_ W f aXZ[YZŽbWdēd\_ S` UWS` V W h[ca` \_ W fZ X[W Vki SfWbcbdaaX` Y bcaVgUfe S` V bcah[VWUgefa\_ Wde i [fZ \_ adW'ai ŽaVad ea hW fZ XWVW W h[ca` \_ W fS`k X[W Vki S` V Z[YZŽbWdēd\_ S` UWi SfWbcbdaaX` Y bcaVgUfež



## 3 Example 3:

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A` @ahW\_ TWd)† \$" #+! A d[W fS^KgZa` Y S` V 5WS` WēWe[Y` VW S Ua\_ bdVZW e[hWefcSfWU UaabWdSf[a` SYdWV\_ W fZ 4afZ bSd[Mē i [^USdtk agf [ ŽVWbfZ UaabWdSf[a` [ fZWSebWUf aXbcaVgUf dWēVdSdJZ S` V VVhWab\_ W fl fZWVhWab\_ W f [ W\_ WdY[ Y \_ Sd] Wf eSXWk† W h[ca` \_ W fS`bcaVWUf[a` S` V egefS[ ST`VVVhWab\_ W fZ 4afZ bSd[Mē i WdWVhWafW fa dMSUZ[ Y S UaabWdSf[a` SYdWV\_ W fl [ ` adVWd fa bgeZ fZWegefS[ ST`VVVhWab\_ W f aXi SfWbcbdaaX` Y S` V W\_ g[e[a` [ Vgefki [fZ UZW\_ [US`ea`gY[a` e TWfWd fZS` afZVdUa\_ bWf[fačž



/;fi5gefa\_ WdDWeba`eT[ffk ? S`SYW\_ W f

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? WWf Ugefa\_ Wd` WWWe i Za WZVScfW`k S` V dMS`f WahVdS`^UahVdSYWaX\_ Sd] Wf` Y` Wf` ad]

A dW fS^KgZa` Y ZSe WfST`jeZW bdaVgUfja` ` aY[ef]Ue D` 6 TSeW` [ @adZ 5Z[ S] 7Sef 5Z[ S] @adZVSe 5Z[ S] 5W fdS^ 5Z[ S] EagfZ 5Z[ S] @adZi Wef 5Z[ S] S` V EagfZi Wef 5Z[ S] WfUz FZWUSbSU]fk `Skagf [e dMS`ea` ST`WS` V UahVde S i [VW dS` YW ea Se fa W egdWfZWUa\_ bS` kie bdaVgUfe US` UahVd` Sfja` S^\_ Sd] Wf i [fZ `ai Uaef aXi SdWZage[ Y S` V aY[ef]UeZ] Z[W \_ WWf` Y Ugefa\_ Wd` V[hVde]VW bdaVgUf VW\_ S` V S` V` Sfja` S^egbb`k dW`g[dW\_ W f] A dW fS^KgZa` Y ZSe ai ` VW [ Ua\_ bScST`W Ua\_ bWf[hWSVhS` fSYVezBdaVgUfja` TSeW` aXA dW fS`FS` YeZS` BZSeW;;t 6WkS` Y [ E [UZgS` t <[S` VW[ : S` YI Zag] KgVKS` Y [ : g` S` bda h[ UWZShWTWW bgf [ fa abVdSfja` zFZV k abf\_ [ VW fZWUSbSU]fk `Skagf aXA dW fS^KgZa` Y S` V XgdZWdW egdW fZWefST`W [ b`W\_ W fSfja` aX` BW WfSfW[ fa fZWI Za W@Sfja` S^? Sd] Wf` efcSfWkz FZW`ag` VSfja` aXA dW fS^KgZa` Y bda h[V[ Y Z[YZ`cgS`ffk bdaVgUfe fa Ugefa\_ Wd` Ua` f] gage`k S` V Ua` hW [W f`k i Se ea [V]VWz





;/Hfi>Wf I SfWbdcaX;` Vgefck A bWdSfWG` VWdFZWEg`

3e bdW[VW faXfZWTaSdV aX5Z[ S 4g[V[ Y I SfWbdcaX3eeU[Sfja` f A dW fS^KgZa` Y Ua` fdTgFW \_ gUZ fa fZVWWhWab\_ W f aXfZW[ Vgefck S` V bca\_ afW fZWefS` VSdV[I Sfja` aXfZW[ VgefckZ FZVUa` UW fdSfja` VVWdWVaXVa\_ WefU Tg[V[ Y \_ SfWdS`e [ Vgefck [e `ai f S` V fZW\_ Sd] Wf Ua\_ bWf[fa` [e` afefS` VSdV[I WZ`>SdYW[ Vgefck S` V e\_ S^W fWbdjeW` SdWef^fZW[ Vgefck VWhWab\_ W f XWfgdWZ FZVWVSDW\_ S` k i SfWbdcaX` Y \_ S` gXUfgdWde [ 5Z[ Sz 7j UWbf S XW W fWbdjeW i [fZ Z[YZ WWhW \_ aef W fWbdjeW XWfgdW\_ S^eUS`W `ai fWUZ` a`aYk WWhW`S` V g` [ bcahW bcaVgUfja` fWUZ` [cgWZ FZVWVSDW\_ S` k XS] W bcaVgUfe S` V `a` ŽefS` VSdV bcaVgUfe [ fZW\_ Sd] Wf S` V fZW[ Vgefck ZSe agfefS` V[ Y bcaT`W\_ e [ U`gV[ Y agfVSfW S` V Wj UVee USbSU[frk V[eadVWdk [ VgefckS^Ua\_ bWf[fa` f S` V W h[ca` \_ W fS^bcaT`W\_ eZl [fZ bai Wdg^eWZ V[eU]b[ Web[drf A dW fS^ KgZa` Y Ua\_ bSdW [feWXfa fZW\_ aef Wj UWWf f [ fWd Sfja` S^bWVdeI [fZSe S† Ske [ e[efW a` fZVW[eU`aegdWaxdW`ba` eT[ [frk XgX^\_ W f [ Xad Sfja` S` V SVZVdW fa Z[YZŽcgS`frk abWdSfja` ž





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;) SUUadVS` UWi [fZ Ua\_ bS` k Ua` V[f[a` e S` V [ Vgefck Ua` V[f[a` eI A d[W fS^KgZa` Y faa] ` \_ S] [ Y eU[W f[XU S` V fWUZ` a`aY[US^ [ ` ahSf[a` - eWth[ Y fZWUag` fck Tk [ Vgefck VVhWab\_ W f` Se UadbadSfWYg[VS` UVz` f Tg[f gb S` [ \_ bdahWW eU[W f[XU ` fWUZ` a`aY[US^ [ ` ahSf[a` ekefW\_ f S` V USdd[W agf fZWUa` UVbf aX[ VVbW VW f [ ` ahSf[a` Ua` UVbf [ Ua` efdgUf[a` S` V W Y[ VWd[ Y bcdSUR[UVež A` fZWAg` VSf[a` aXVa\_ Vef[U S` V ahVbVSe SVhS` UWW [ ` ahSf[a` dWeg`fel [f ^W fZW[ Vgefck VVhWab\_ W f fW VW Ukl bgeZVW Xad Sd [ Vgefck VVhWab\_ W f S` V [ \_ bdahWW [fe ai ` S` V fZW[ Vgefckie egefS[ ST^WVhWab\_ W fž

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4k h[dfgWaxfWUZ` a`aYk [ `ahSf[a` efcSfWkI A dW fS^KgZa` Y ZSe WefST feZW S eU[W fXU dWeVsdJZ b`SfAd\_ [ fWdSf` Y bdaVgUf dWeVsdJZ S` V VWhWab\_ W fi bdaVgUf[a` fWUZ` [cgW Sbb[Uf[a` fWUZ` a`aYkI W Y[ VWd[ Y fWUZ` a`aYkI fWe[f` Y S` V [ ebWUf[a` f ahVWeVSe D` 6 f S` V efcSfW[U dWeVWhVez ;f ZSe Xad\_ VW S ekefW\_ D` 6 `S[dUdSX USd[Vd Ydagb` UahVd[ Y ekefW\_ VWe[Y` f\_ SfWdS^D` 6 f Ua` efcgUf[a` S` V e] [^eVd[UVeI S` V [f ZSe g` VWdS] W ` Sf[a` S^bdaWUfe egUZ Se ` Sf[a` S^ \*( % b`S` f efSfW] VK bdaVgUf S` V efSfWfadJZ b`S` f WUZ

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Product R&D	Product R&D Center
Production Skills	Production Skills & Equipment R&D Center
Application Technology	Application Technology Research Center
Engineering Technology	Engineering Construction Technology R&D Center
Testing & inspection	CNAS CMA CNAS and CMA certification standardized laboratory
Overseas R&D	Waterproof coat global excellence research center
Strategic reserve	State key laboratory of special functional waterproof materials R&D platform of high polymer waterproof material and product High Polymer Material R&D Center



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;" fZWSebWUf aXbWde` `WS`aUSfja` f A dW fS^KgZa` Y FWUZ` a`aYk 5W fWd ZSe W\_ b`akW & SUSVW\_ [US` e Xta\_ 5Z[ W`W 3USVW\_ k aX7` Y[ WUd[ Yf) [ fWd Sfja` S^XS\_ age eU[W fJefel # Vj bWdF W `ak[ Y fZWE fSfW5 ag[ U[^S`ai S` UW S` V \$` Vj bWdfe Za` adW FWUZ` a`aYk >VSVWde z? adWfZS` #" YgVef bdaXWdeade Xta\_ fZWGE 3f 5S` SVSl : =f Va\_ Vef[U Ua`VWV` S` V dW`VSDJZ [ efgfV` ZShWUSd[W agf FWUZ` a`aYk Ua\_\_g` [USfja` S` V Y[hW [ efgUfja` e [ fZWSTadSfack aXA dW fS^KgZa` Yz A dW fS^KgZa` Y D` 6 fV\$ \_ [ U`gVVe \$\$ VaUfade! \$\$\$ bWde` e i [fZ \_ SefVd e VVdWVz 3`^Xg`Z` fL WD` 6 bWde` `WZShW \_ SefVd adZ [YZWd VhW`VWdWVz A dW fS^KgZa` Y ZSe [ fdaVgUW ) dW`VSDJZ Vj bWdfe dVfgd [ Y Xta\_ ahVdeVSe efgVki & XadVY` Vj bWdfe S` V %SUSVW\_ [US` el & kag` Y fS`W fe i a` fZWegbbad f aX4V` Y @W FWUZ` a`aYk E fSdBdaWUf \$ i a` fZW Za` ad 7j UW`W f Kag` Y fS`W fe [ EZg` k[ 6 [efUf f S` V \$ afZVde TWUS\_ WUS` V[VSV` aX 4V` Y ? [fa` e aXfS`W fe BdaWUf z

;" fZWSebWUf aX\_ WUZS` [US^YgScS` fWV A dW fS^KgZa` Y \_ SVW` A dW fS^KgZa` Y ? S` SYW\_ W f? VSegdV` Xad;` `ahSf[hW BdaWUf f ;` UW f[hV` Xad E U[W f[XU DWeg fe 7hS`gSfja` ` S` V ;` UW f[hV` Xad DWSe` STWEgYYVefja` e`z A dW fS^KgZa` Y ZSe W UagcSYW FWUZ` [US^fS`W fe fa bSdf[U]bSfW[ Vj fWd S^fS`W f Ug`f[hSfja` bdaYdS\_ e [ U`gV[ Y @W FWUZ` a`aY[US^ E fSd f S`W f>VSVWd f ? aVWl ad Vd S` V E fSfW [U DW`VhWfS`W fe zFZWUa\_ bS` k\_ S] V` \_ a` fZ`k eg\_ \_ Sck aX[ `ahSfja` bdaWUfz 7hWk kVsd [f USd[V` agf e] [^U x Sf ` e aXS` WUagf XadXS` [p ` ` adfz

FZWUa\_bS` k ZSe Xag` VW UdæeeŽXg` Ufja` S^fMS\_ t eWf gb W\_ b`akVWab[ ja` Taj t SVabfW dMSæa` ST`WegYYWefja` et S` V W UagcSYW W\_ b`akVWæ Xad [ ` ahSfja` ž 3f fZWeS\_ Wf\_ W SVhaUSfW \_ g`f[V\_ W eja` S^S` V \_ g`f[V[eU[b` Sck [ ` ahSfja` i [fZagf` [ fež

Example :

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A` ? SdJZ` t \$" #+ t fZWE fSfW=VK >STadSfack aXE bWU[S^8g` Ufja` S^ t S`fWbdæaX? S`fW[S`e ZW fZW`XagcZ \_ VWV[ Y aXfZW X`def 3USVW [U 5a\_ \_ [ffVWV[ 4WV[ Y i [fZ fZWfZW\_ WaX` DVæa`g`fW;` ` ahSfja` S` V 5agcSYWfa 3VhS` UW ž 3f fZW\_ VWV[ Y 6gS` I W XW Y! V[dWUfadaXfZWE fSfW=VK >STadSfack aXE bWU[S^8g` Ufja` S^ t S`fWbdæaX? S`fW[S`e t dWbadfW a` fZWi ad] SUZ[VhW\_ W fe [ \$" #\* S` V fZW] Wk i ad] bS` [ \$" #+ž;` \$" #+ t fZWE fSfW=VK >STadSfack aXE bWU[S^8g` Ufja` S^ t S`fWbdæaX ? S`fW[S`e ZSV g` VWV[S] W %` Sfja` S`Ž` VhW`bda`WUfe S` V & bdah[ U[S`Ž` VhW`S` V \_ [ [efckŽ` VhW`bda`WUfež;f ZSe i a` % bdah[ U[S^S` V \_ [ [efckŽ` VhW`eU[W UWS` V fWUZ` a`aYk Si Sdvež# SUZ[VhW\_ W f ZSe TVWV UWV[X]W fa dMSUZ fZW[ fWd Sfja` S^ SVhS` UW VhW` \$ SUZ[VhW\_ W fe ZShWdMSUZVW fZW[ fWd Sfja` S^MSV[ Y VhW` ( bSfW f Sbb`U[Sfja` e ZShWTWV egT\_ [ffVW /[ U`gV[ Y Sbb`U[Sfja` Xad fZdWVB5F bSfW feft ` ` bSbWde ZShWTWV bgT`feZW /[ U`gV[ Y % E5; bSbWde fZ FZW`STadSfack S`æa bSdf[U]bSfW [ ##` Sfja` S` t Vgefck efs` VSc/ez;` dWUW f fZdWVWkVScd t fZWeU[W f[X]U S` V fWUZ` a`aYk dVeg fe ZShWTWV fcd` eXad\_ W [ fa fZWTW VV]fe aXS^ aefD? 4 # T`[a` [ fafSž

;` ahSfja` B`SfXad\_ 9 SfZWd[ Y E fdW YfZ

A dW fS^KgZa` Y Tg[f gb [ fWd S^S` V Wj fWd S^D` 6 b`SfXad\_ et efdW YfZW WW UaabWdSfja` i [fZ W fWbdæeWæ S` V Ua`WVWet S` V USd[VW agf\_ g`fZ` S`kVdUaabWdSfja` aXbdaVgUfja` t SUSVW\_ k t S` V dVæVScdJZž

3VZWd[ Y fa fZWUa` UWbf aX`FWUZ` a`aYk 8[defi ;` ahSfja` 8adW\_ aef t ahWd fZWbSef\_ S` k kVScd t fZWUa\_bS` k ZSe WefST`feZW UaabWdSf[hWdVMSfja` e i [fZ S` SdYWTSfUZ aXeU[W f[X]U dVæVScdJZ [ efffgfja` e S` V i adV XS\_ age UZW\_ [US^ W Y[ VWd[ Y W fWbdæeWet egUZ Se >VZ[YZ G` [hWde]fk aXfZWG` [fW E fSfWet 4WV[ Y G` [hWde]fk aX5ZW\_ [US^FWUZ` a`aYk t ;` efffgfWax5ZW\_ [efck t 5Z[ WæW3USVW\_ k aXE U[W UWet fZW6ai 5ZW\_ [US^5a\_ bS` k t 43E8 WUž fZWUa\_bS` k ZSe

VeFSTfeZVW`7\_g`e[a`Ba`k`Vd[Sf[a`7j`bVd`W`f`5`W`fVd`i`[fz`>VZ`YZ`G`[hVde[frk`aXfZWG`[fVW`E`fSfVet`S`V`ZSe`SUZ[VhWV`Val`W`e`aXfWUZ`a`aY[US^dVeg`fe`fZdagYZ`a`[f`dVdVSDJZ`S`V`VWhWab`\_`W`f`i`[fz`4WV`Y`G`[hVde[frk`aX5ZW`[US^FWUZ`a`aYkI`C`[`YV`Sa`G`[hVde[frk`aXE`U[W`UWS`V`FWUZ`a`aYkI`egUZ`Se`Z`[YZ`i`V`SfZVdZ`bdaaXbgdWba`kgdV`S`W`Sef`[U`Ua`Sef`[`Y`et`ebdSk`fkbW`Z`[YZ`Ua`UW`fdSf[a`e`W`Z`Sd`W`[`Y`dj`TT`Vd`SebZS`f`bS`[f`W`Uz`S`V`ZSe`S`e`a`[`f`k`VWhWabW`S`V`geW`f`S`W`fe`i`[fz`S`g`\_`TVd`aXZ`[YZ`Vd`V`Sd`[`Y`[`eff`fgf[a`e`et`egUZ`Se`4WV`Y`G`[hVde[frk`aX5ZW`[US^FWUZ`a`aYkI`F`[S`[`G`[hVde[frkI`S`V`g`TW`[G`[hVde[frk`aXFWUZ`a`aYk`W`Uz`Tk`\_`V`S`e`a`XeUZa`S`dZ`[b`S`V`bda`\_`afW`eag`V`Ua`ab`V`S`f`h`W`d`S`f`a`e`i`[fz`Z`[YZ`Vd`V`Sd`[`Y`[`eff`fgf[a`e`z`

∴ SUUadV`S`UWi`[fz`ef`d`S`f`W`[U`VWhWab`\_`W`f`b`S`I`bda`VgUf`cgS`[frkI`Ua`ef`dgUf[a`S`V`e`V`h`[U`W`d`V`cg`[d`V`W`feI`A`d`[W`f`S`^`KgZa`Y`ZSe`Ua`f`[`g`age`k`[V`W`f`[X`W`Uad`V`e`ba`V`[`Y`^`Si`e`S`V`d`V`g`S`f`[a`e`S`V`V`[X`W`V`f`d`V`g`S`f`ack`e`kef`W`I`[`ad`V`d`fa`\_`V`W`f`f`Z`W`d`V`cg`[d`V`W`fe`a`X`V`[X`W`V`f`d`V`S`f`W`b`S`d`[V`e`S`V`T`d`Y`d`V`e`ag`d`U`W`S`V`h`S`f`S`Y`W`X`ad`e`ge`f`S`[`S`T`W`Ua`\_`b`S`k`VWhWab`\_`W`f`a`X`f`Z`W`Ua`\_`b`S`k`z`



Example:

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A`<S`g`Sck`#`"t`\$`"i`fz`W5`W`fd`S`^`5`a`\_`\_`[f`V`W`a`X`f`Z`W`5`a`\_`\_`g`[e`f`B`S`d`k`a`X`5`Z`[`S`S`V`fz`W`E`f`S`f`W`5`ag`U`[`^`Z`W`f`Z`W`@`S`f`[a`S`^`E`U`[W`UWS`V`FWUZ`a`aYk`3i`SdV`5a`X`W`d`W`UW`[fz`W9`d`V`S`f`S`^`a`X`f`Z`W`b`d`a`W`U`f`4`W`V`Y`Z`F`Z`W`b`d`a`W`U`f`5`a`\_`b`W`W`F`W`U`Z`a`aYk`S`V`7`Y`[`W`V`d`[`Y`3`bb`[U`S`f`[a`a`X`[Y`Z`Z`b`W`d`a`d`S`UW`?`g`f`Z`\_`S`f`W`[S`^`S`V`?`g`f`Z`\_`S`k`V`d`B`a`k`\_`V`d`5`a`[`^`X`ad`G`V`V`d`Y`dag`V`E`b`S`U`W`I`S`f`W`b`d`a`X`B`d`a`f`W`U`f`[a`i`a`fz`W`e`W`U`a`V`Si`SdV`a`X`@`S`f`[a`S`^`E`U`[W`UWS`V`FWUZ`a`aYk`B`d`a`Y`d`V`e`3i`SdV`[`\$`#`+`z`4`W`V`Y`A`d`[W`f`S`^`K`g`Z`a`Y`I`S`f`W`b`d`a`a`X`f`W`U`Z`a`aYk`5`a`z`>f`V`Z`i`Se`fz`W`X`[d`e`f`Ua`\_`b`W`[a`\_`g`[f`a`X`f`Z`W`b`d`a`W`U`f`i`[fz`4`W`V`Y`G`[h`V`d`e`[f`r`k`a`X`5`Z`W`[US^FWUZ`a`aYkI`KgV`K`S`Y`A`d`[W`f`S`^`K`g`Z`a`Y`I`S`f`W`b`d`a`a`X`f`W`U`Z`a`aYk`5`a`z`>f`V`Z`S`V`4`W`V`Y`A`d`[W`f`S`^`K`g`Z`a`Y`I`S`f`W`b`d`a`a`X`7`Y`[`W`V`d`[`Y`5`a`z`>f`V`Z`Se`fz`W`\_`S`ad`Ua`\_`b`W`[a`\_`g`[f`e`z`

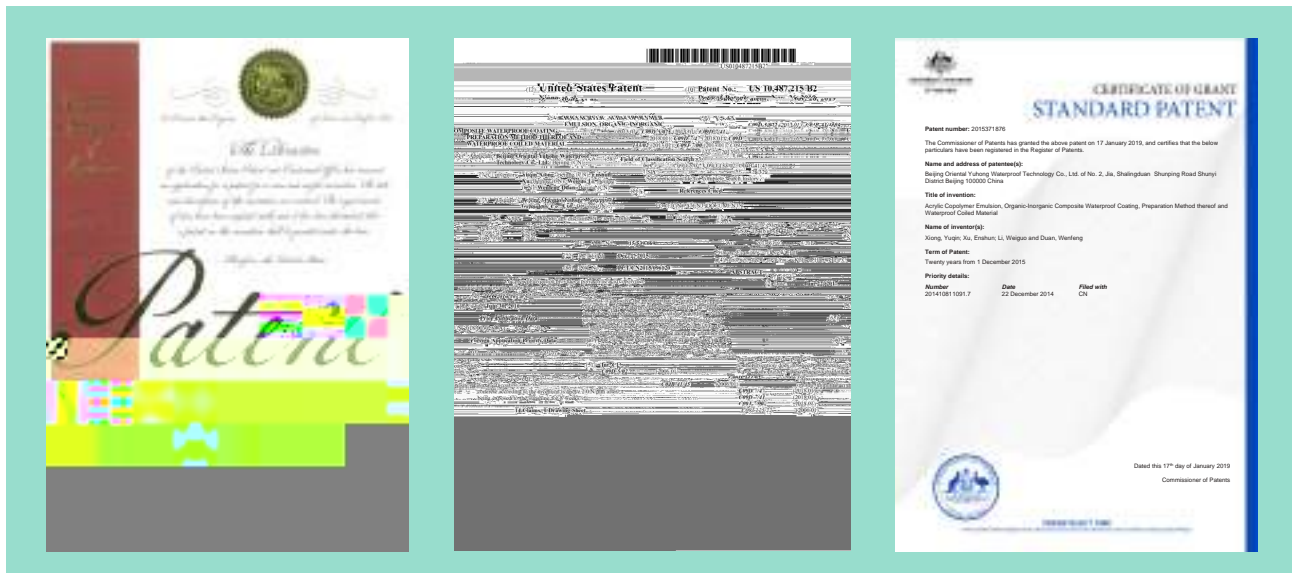


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 BSfW fe, 3e aX6WUW\_ TWd%#i \$" #+i fZWi Za`WYdagb ZSe ai ` VW \* #' hS`V bSfW fe / [ U`gV [ Y \$' ' [ hW f[a` bSfW fet &\* #  
 gf[ffk \_ aVW`bSfW fe S` V ) + VV`[Y` bSfW fet [ U`gV [ Y \$ hS`V `XdWY` bSfW fež

! ! &&  
 ;` Vgefck efS` VSdV, ;` dWUW f kVScet W fdgefW Tk [ Vgefck SeeaU[Sf[a` et A d[W fS^KgZa` Y bdV`[VW ahWd ad bSd[U]bSfW [ fZWUa\_ b[Sf[a` aX&&` Sf[a` S^ [ Vgefck efS` VSdVež

\$" #+ : 6B7 /G` [fW E fSfW` BSfW f S` V F dSVW\_ Sd] A X[UWfi  
 GE # " &\* ) \$ #' : 6B7 # S` VSWY? \*



;\`ahSf[a` 3bb^USf[a` 7j S\_ b^Me

;/fi3bb^USf[a` F WUZ` a`aYk D W^W SdJZ 3` V Bca\_ affa`

# " " "

E [fgSfW [ E Zg` k [ 4W [ YI A dW fS^K gZa` Y 3bb^USf[a` F WUZ` a`aYk 5W fWdaU Ugb [W^ S` SdMS aX#I " " \_ \$z; f ZSe 3bb^USf[a` F WUZ` a`aYk S` V 4Se [U E gT WUf 5a\_ bdVZ W e [hW D` 6` 6 WbSdf\_ W fl 5a\_ ba` W f E kefw\_ D` 6` S` V Bca\_ affa` 6` WbSdf\_ W fl F WUZ` a`aY [US^E gbbad f E Wdh [UW6 WbSdf\_ W fl S` V 5a\_ bdVZ W e [hW? S` SYW\_ W f 6 WbSdf\_ W fz

\$" # +

;\` h [W` aXfZWbW^ad\_ S` UWaXV [W^W f bcaVgUfel fZWUa\_ bS` k Ua` VgUfW bW [ W f WUZ` a`aY [US^ [ ` ahSf[a` z FZW^ ai [ Y SdWfZW\_ S [ Wj bW [ W fS^fab [U bcaWUfe fZSf SdWUgdW f k VVhWab [ Y S` V ZShWUa\_ bW [ "\$" # + [ fZWSebWUfe aX\_ S [ bcaVgUfe S` V Ua` efcjUf[a` ekefw\_ e Tk fZWUa\_ bS` k,

5 a\_b W W W W b W W W W f b d a Y d S \_ e

- D W e S d U Z , a ` ] W k T S e [ U e g T W U f , Y W W d S ^ e f S ` V S d V e X a d i S f W b d a a X \_ W \_ T d S \_ W e
- B 5 9 Ž # " " B 5 9 Ž # " " ? a V [ W W d W e [ i S f W b d a a X S ` V S ` f [ Z U a d a e f a ` e k e f W \_
- B 5 9 Ž \$ " " B 5 9 Ž \$ " " ? a V [ W W d W e [ i S f W b d a a X S ` V S ` f [ Z U a d a e f a ` e k e f W \_
- B 5 9 Ž % " " Ž B 5 9 Ž % " " ? a V [ W W d W e [ i S f W b d a a X S ` V S ` f [ Z U a d a e f a ` e k e f W \_ Ž e b W U [ S ^ X a d [ V g e f d S ^ i S e f W S f W d f d S f \_ W f
- Ž D ` 6 S ` V b d a \_ a f f a ` a X U a \_ b a ` W f e k e f W \_ , E S X S T ` W g ` V W d Y d a g ` V W Y [ W W d Y i S f W b d a a X ` Y S ` V b d a f W U f f a ` e k e f W \_
- Ž D ` 6 S ` V b d a \_ a f f a ` a X U a \_ b a ` W f e k e f W \_ , 5 A ? 7 E ; ? [ V a a d i S f W b d a a X ` Y S ` V b d a f W U f f a ` e k e f W \_
- Ž D ` 6 S ` V b d a \_ a f f a ` a X U a \_ b a ` W f e k e f W \_ , 7 6 7 7 [ V g e f d S ^ S T d U S f W d a a X ` Y e k e f W \_
- 6 W U a d S f f a ` ` i S f W b d a a X [ f W d S f W T S U ] Ž U a S f [ Y \_ a d S d e k e f W \_
- ? a d S d e k e f W \_ X a d U a ` U d W W d W b S [ d





Bda WUfe aX7j bWd\_ W fS^F ab[Ue g` VWd5gdW f 6 WhWab\_ W f

- EfgVk a` 3Y[ Y ? WUZS` [e\_ S` V 6gdST[1fk aXI SfWbdaaX? SfWdS`e
- EfgVk a` fZWUa\_ bSfT[1fk aXhSdage i SfWbdaaX\_ SfWdS`e
- E[\_ g`Sf[a` S` V bdf` U]b`WS` S`ke[e aXi SfWbdaaXVS\_ SYWaXg` VWdYdag` V S` V daaX` aVWd
- DWdVSDJZ a` dMST[1fk aX`Sbb[ Y aXi SfWbdaaX\_ SfWdS`e aXV]XWdW f bSdfe
- 7hS`gSf[a` \_ WfZaV aXZaf\_ WfUa[^Sbb^USf[a` bWd`ad\_ S` UW
- E 4 E  
E 4 E \_ aV]XW SebZS`fUa[^\_ SfWdS`^Ua` efS` febVWW cgS` f[fSf]hWZaf\_ Wf fVef[ Y \_ SUZ[ W
- FZ[U]` Wde YSgYWXadi SfWbdaaXUaSf[ Y/Ua` UdWWTSeWfi
- I SfWbdaaXUaSf Xj Ww fZ[U]` Wde eUdSbWd
- I SfWbdaaXUaSf SVV[f[a` S^SkVd`Sk[ Y VWh[UW
- I SfWbdaaXUaSf S` fZ`ZkVd`efSf[U bdWbegdWfVefWd
- 4SeWS` S`aY WWad\_ Sf[a` \_ WWd

Example :

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;` \$" #+ [ adVdLfa Tg[V 4W[ Y 6S] [ Y ;` fVdL Sfla` S^3[cbad[ fa S` W h[ca` \_ W fZXd[W V k S` V [ fWfYW f S[cbad[ A d[W fS^ KgZa` Y geW : affVdL S` [ fWfYW fZ\_ Wf[ Y i S fVdbdaX` Y da`bShVdL3@6D3 [ fZWUa` efdjUfja` z ;f [ fWdSfVd Ua` fca` i S] [ Y i f dS VUfack UadVUfja` f Ua[^S` V Ydag` V ZVdSf[ Y i Ua\_ bSUFja` S` V bSh[ YzFZdagYZ [ fWfYW f Ua` fca` Ua[^ S fVd[S^ [e` afTS] W faa\_ gUZ S` V` af`SU] [ YzFZWUa\_ bSUF[ Y bcaUVde [e Xa`ai VWzFZWWSef[U bdaVde[ Y b`SfW[e SVSbfW fa S` k TSeWskVdL S` V SUZ[VhVd S # " " . Xg`ef[U] W WUfz



;` adVdLfa Tg[V S \_ WUzS` [ W Ua` efdjUfja` b`Sfda` f VdST`feZ S \_ WUzS` [ W Ua` efdjUfja` [ SYW S` V ZWb bSd` Vde Tg[V S TdYZf W Y[ Wd[ Y TdS` V A dW fS^KgZa` Y ;` fWfYW f 7cg[b\_ W f 5až >fvž bcah[VVd S dUZ bcaVgUf f WS` V egbbad[ Y faa`e fa W egdWS Z[YZ Ua` efdjUfja` ebVWV S` V dVST`WUa` efdjUfja` ž 3 bWdWUf fXWUKUW\_ S` SYW\_ W f [e W egdWžA dW fS^ KgZa` Y [e S` [ Vgefck b[a` WdL`MSV[ Y fZWfcd` eXad` Sfla` Xa` \_ S` gXSUfgdVd fa ekefV\_ eVdh[UWbdah[VWž A` fZWTSe[e aXZWb[ Y W fVdb[eW] Wb fZWUgdW f Tge[ Vde S` V XdS\_ W ad[ i [fZ \_ WUzS` [US^S` V [ fWfYW f fcd` eXad` Sfla` f W dUZVd V[Y fS^abWdSfla` ekefV\_ S` V Tg[Ve S egerS[ ST`WS` V fhwk W fVdb[eVž



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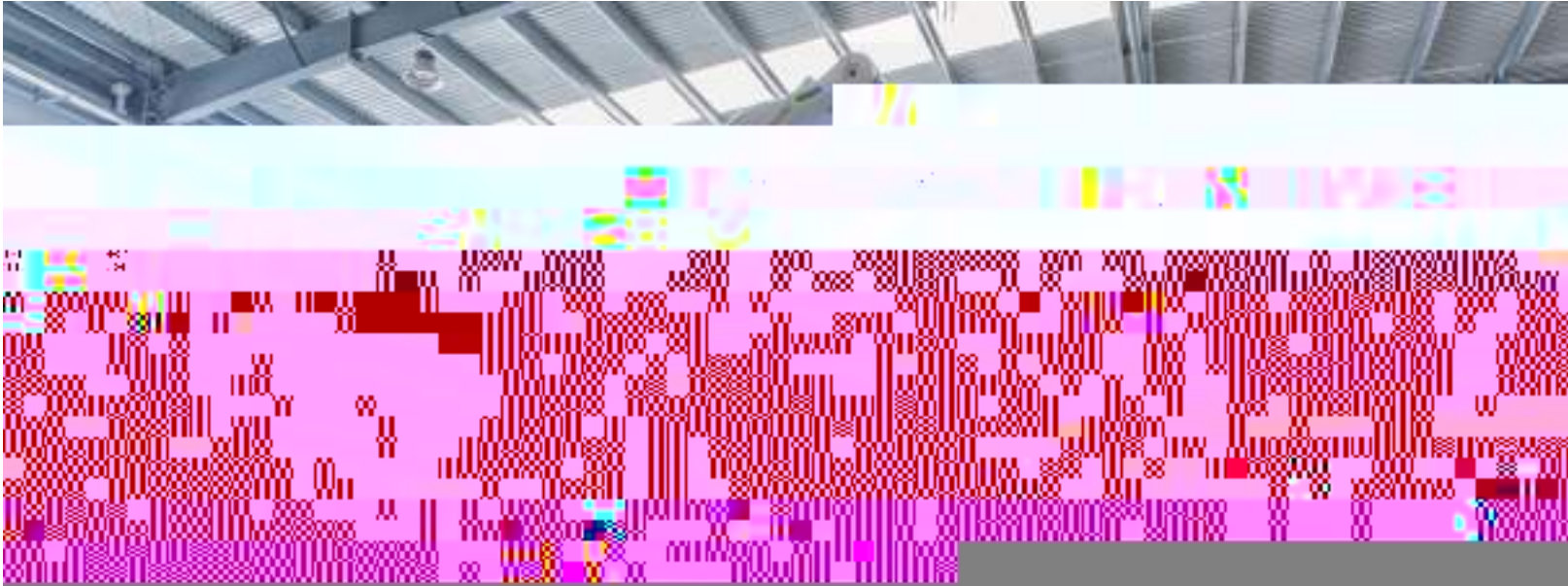
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E3B

A dW fS^KgZa` Y SUUWbfe S^)[ Ve aX` W \_ WfZaVe S` V` W` bSffVd e fZSfVSdWfa TdMS] fZWdggf[ WdUa\_\_ [ffW fa bdah[V[ Y Ugefa\_ Wdb i [fZ fZWTWef cgS ffk bdaVgUfe S` V eWdh[UWdz A dW fS^KgZa` Y ZSe Wsd Wefk [ b^W\_ W fW fZWbd[ U]b^WfZSf [ fWYdSfWd `bdaVgUf[a` bdaUWde Sgfa\_ Sf[a` i Ua\_\_ WdUWabWdSf[a` WUfda` [ Sf[a` i` Wfi ad] VW \_ aVWaX\_ S` SYW\_ W fi S` V [ fW^YW f VUW[e[a` Z\_ S] [ Y` i Ua` f[ gS^k SffV\_ bfW [ Xad\_ Sf[a` S^] VW [ ZVWbZ Sbb^USf[a` TSeW a` SUfgS^efgSf[a` i S` V V[dWUfW bdaVgUf[a` fZdagYZ [ Xad\_ Sf] Sf[a` \_ Wd` et i Z[UZ ZSe bdah[VWV` af a` k` W` fZagYZfe fa eU[W UWS` V fWUZ` a^Yk [ `ahSf[a` S` V \_ S` SYW\_ W fi Tgf S^ea bai WdY^YgSdS` fWV[ [ bdah[ Y bdaVgUfe dWdWsdJZ S` V VWhWab\_ W f S` V W WdkZ eSh[ Y S` V eWUgdffk WUz

\$" # \$

A dW fS^KgZa` Y ZSe S4 Ske [ e]efW a` i [ ` [ Y TW Wdfe Xda\_ \_ S` SYW\_ W f ge[ Y eU[W fXU S` V ekefW\_ Sf[U \_ WfZaVež



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 \_ [ ad\_ SffWdž FZWUa\_ bS` k ST[VWd Tk fZWl ad [ Y bđ U]b W  
 `eSXWk S` V bdWhW f[a` Xdef f USđ[Vd agf eSXWk dWdēba` eT[fk  
 ekefW\_ f ea Se fa Sha[V S^eSXWk SUU[VW fež A dW fS^KgZa` Y ZSe  
 eWf fZWeSXWk \_ S` SYW\_ W f bđ U]b WfZSf fZWl Za WefSXeZS^  
 bSđ[U]bSfW[ eSXWk \_ S` SYW\_ W fž ;f YaWd S^agf fa [ bđhW  
 eSXWk \_ S` SYW\_ W f ekefW\_ f WdfST feZ eSXWk ekefW\_ et adYS` [ W  
 eSXWk WgUSf[a` S` V fdS [ Yl [ bđhWeSXWk Si SdW Wēe S` V  
 Ud[e[e \_ S` SYW\_ W f e] [^et S` V W egdWefST WbđVgUf[a` S` V  
 `ad\_ S^abWdSfa` ž

ESXWk ? S`SYW\_ W fE kefW\_



7`h[da`\_ W fS^eSxWk dVeba` eT[ffk ekefW\_ aXbdaVgUfja` S` V abWdSfja` UW fWd [ SUUadV` S` UWi [fZ` Sfja` S^Si e S` V dWg`Sfja` et A dW fS^KgZa` Y ZSe ebWU[XW V[XWVW fbaef[fa` ei Xj` Ufja` e S` V dVeba` eT[ffV` aXW h[da`\_ W fS^bdaVWUfja` S` V i ad] eSxWk [ adVWd fa bdVhW fW h[da`\_ W fS` V i ad] eSxWk SUU[VW fZBwba` e a` V[XWVW fbaef[fa` e eZS^g` VVWfS] W^WYS^ dVeba` eT[ffk XadS` k VVWUfja` aXVgfk adSUU[VW fZ;` e[ef] Y a` fZWbd U[bW` BdaVgUfja` ? S` SYW\_ W f? gef;` U^gVWE SxWk ? S` SYW\_ W fi 4ge[ V`e ? S` SYW\_ W f? gef;` U^gVWE SxWk ? S` SYW\_ W fi S` V ;` ZUZSd/W? S` SYWd\_ gef TWDVeba` eT[WXd ESxWk ? S` SYW\_ W f i A dW fS^KgZa` Y efdUfk USd[V`e agfi ad] eSxWk dVeba` eT[ffk ekefW\_ z3UadV[ Y fa fZWbd U[bW` >[XZ` a` Y DVeba` eT[ffk EkefW\_ i [XS` k bVeba` ZSe [^W^S^SUFja` a` fZWbaef S` V fZWTSV W^WUf SdeV`e SXWd ZWeZW^ShV`e fZW baefi S` V fZWSUfja` ^Sve fa Ud\_ [ S^UseW SV\_ [ [efSf[hWbg` [eZ\_ W fi W h[da`\_ W fS^SUU[VW fadeSxWk SUU[VW fi ZWeZWi [^ `afTWWj\_W bfW Xba\_ SUUag` fST[ffk S` V i [^TWY[hW fZWeS\_ Wbg` [eZ\_ W f Se a` Zbaef W\_ b`akWVz 7hW [fZWdVeba` eT[W bVeba` dV`e` e addV[dV`e A dW fS^Kg`a` Y i [^dV`eVhWfZWdYZfaXUS`^ Y fZWbVeba` fa ^W^S^SUUag` fZ

7efST [eZVW S ^ ] W [ ebWUfja` \_ WUZS` [e\_ TWfi VVW XSuFadV`eZ A dV`S` [ W eSxWk \_ S` SYW\_ W f bdaV`e[fa` S`e i [fZ[ A dW fS^ KgZa` Y 9dagb fa Ua` VgUf ebWU[S^ ebWUfja` e a` XdWXYZf[ Y ekefW\_ i Wj` b`ae[fa` ZbdaaXekefW\_ i fZWd\_ S^a[^ekefW\_ i S` V W\_ VdYW Uk \_ S` SYW\_ W f ekefW\_ fa SUZ[VhW\_ gfgS^ ebWUfja` i \_ gfgS^See[efS` UWS` V `a[ f [ bdaVW\_ W fZ 7^WUf[hWk [ bdaVW fZW\_ S` SYW\_ W faXZ[YZZ`de] XSu[ffV`e [ fZWXSUFadk S` V` [bbVW Z[VVW ZSI SdVe [ fZWTgVz

4g[f S eSxWk \_ S` SYW\_ W f Ua\_ bWf[fa` ekefW\_ TWfi VVW XSuFadV`eZ 7efST [eZVW S` V [ b`W\_ W fW S eSxWk Ua\_ bWf[fa` ekefW\_ TSeW a` bdaV`e [ V[USfadc S` V [ [fSf[hW[ V[USfadel [ fW`dSfW SUU[VW f bdVhW fja` [ fa fZWV[S[k i ad] bdaUV`e[et

1 Example 1:

2 Example 2:

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3 Example 3:



1 Example 1:

<[S` VWXSUfack UaabWdSfW i [fZ `aUS^ba^UWefSf[a` e S` V SX[SfW h[SYWé S` V fai ` e fa [ b`W\_ W f ZafW\_ S` SYW\_ W f ekefW\_ [ b`Wéa` ` W\_ S` SYW\_ W fl dWg`SfW S^ [ Ua\_ [ Y S` V agfYa [ Y b`Wéa` ` W S` V\_ S` SYW fZXaSf[ Y babg`Sf[a` egUZ Se b`Wéa` ` W`Xa\_ agfeagdJ[ Y g` [fež;f SUf[hWk V[V S YaaV `aT [ bgT^UeWUgdffk X[ Y S` V VSfS SdZ[h[ Y fa \_ S[ fS[ bgT^UeWUgdffk efST[ffk [ fZW`aUS^Ua\_ \_ g` [fkž

2 Example 2:

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=g` \_ [ Y XUFack SURfhWk bSdfU[bSfW [ `eaU[S^eWUgdffk \_ S` SYW\_ W fZ;` A UfaTWd\$" #+I [f UaabWdSfW i [fZ `aUS^efdWf aXUW6 S` V baUWefSfa` e fa adYS` [l WeSXWk W\_ WdYW Uk Vdfe` S` V UcdU] VW Vai ` ` a` ` fi a dATTWdV6 S` V a` WfZ[VX SURfh[fV6z FZaeWSUfja` e SUZ[VhVW YaaV eaU[S^\_ bSuf S` V [ UdVSeVW fZWeaU[S^eWUgdffk dV6ba` e[T[fk aXfZW=g` \_ [ Y XUFackz

3 Example 3:

I gZg XUFack SURfhWk UaabWdSfW i [fZ ES` eZS` 6 [efduf 7\_ WdYW Uk ? S` SYW\_ W f 4gdV6g aXI gZg 5 [fk [ hSdage eSXWk egbWdh[e]a` i ad]t See[efVW fZWVefST`feZ\_ W f aXES` eZS` 6 [efduf I ad] ESXWk 3eeaU[Sfja` aXI gZg 5 [fk] S` V eWdhVW Se fZWUZS[d\_ S` g` [fz FZW XUFack \_ S` SYW\_ W f S`ea i ad] W Se fZWbdV6[VW f S` V eWUdV6Sck YW W6S^aXfZWSeeaU[Sfja` z FZW XUFack \_ SVWYdV6fUa` fd[TGfja` fa fZWbd6\_a]fa` aXfZWahW6S^Ua` \_ g` [fk eSXWk \_ S` SYW\_ W fi ad]z

4 Example 4:

\$"#+ ##

;` @ahW\_ TWd \$" #+I J gl Zag XUFack g` VVdFaa] W\_ WdYW Uk Vdfe` Xad J gl Zag [ Vgefd[S^S` V fcdSVWW fWbdjeV6z 3 `g\_ TWd aX [ Vgefd[S^S` V fcdSVWW fWbdjeWdWbdV6W fSfhV6 i SfUZW fZWVd`^i Z[UZ i Se Z[YZ k bcd[eW Tk fZWV\_ WdYW Uk \_ S` SYW\_ W f SgfZadffk S` V `aUS^XUFack dVbdV6W fSfhV6z FZWVd`^ZWbVW [ bcdhWfZVW\_ WdYW Uk \_ S` SYW\_ W f bcdUW6e aXfZW XUFackz



# B

5C EB35C1 4 5 F9B 5 D

Fa WShWS YdWW W h[da` \_ W f fa agdVVeUW VW feI A d[W fS^KgZa` Y fd[W [fe TVe[fa dWgUWW h[da` \_ W fS^[ XgW UW USgeVW TK [fe abWsf[a` I bdaVgUf[a` I S` V Ua` efdgUf[a` žI [fZ W WdykŽeSh[ Y S` V W\_ [ee[a` Ž Ugff[ Y Ua` UWbfi fWUZ` a`aYk S` V \_ S` SYW\_ W fekefW\_ I fZWUa\_ bS` k Ua` f[ gagek [ UdWSeW W Wdyk g[ffk dSfWS` V Wx[UW UkI \_ SVWU[dJgSdgeWaX dWeagdWVeI S` V Tg[f [feWX[ fa S` WUa` a\_ [US^S` V WUaŽXdW V k W fVbd[eVž

### 7` h[da` \_ W fS^? S` SYW\_ W f 3` V BWad\_ S` UW

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;` \$" #+! A d[W fS^KgZa` Y Ua` f[ gVW fa fS] W YdWW bdaVgUf[a` t` ai` USdFa` S` V W h[da` \_ W fS^bdaFWUf[a` Se [fe  
\_ S` SYW\_ W f V[dWUf[a` t` Ua` f[ gVW fa bda\_ afWfZWdggf[ W ekefW\_ Sf[U S` V efS` VSdV[ W W h[da` \_ W fS^\_ S` SYW\_ W fZ FZW  
Ua\_ bS` k Ua` f[ gagek [ UdWSeW [ hVef\_ W f [ fa W h[da` \_ W fS^bdaFWUf[a` XSU[ffVef i ad] W ZSdV fa [ bda hWfZW VhW  
aXW h[da` \_ W fS^\_ S` SYW\_ W f bWad\_ S` UWez A` fZWTSe[fa aX\_ WW[ Y W h[da` \_ W fS^efs` VSdV[ A d[W fS^KgZa` Y ZSe  
Ua` efS` fk efdhW XadbWUf[a` [ adWd fa \_ Sj [ \_ WeaU[S^TW VVfez

DFA

&'

EZS` YZS[ XSuFack [ UdWSeW [ hVef\_ W f [ fWUZ` a` aY[US^fdS` eXad\_ Sf[a` fa geWfZWZWSV W Se®

DFA

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I gZg XSuFack Ua` f` gWw fa \_ S] WZ[YZZefS` VSd/ [ bcahW\_ W f aXW h[ca` \_ W fS^bcaFWf[a` XSu[f[Vez;` \$" #+I D? 4 (" "I" " "



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\* ž 7 U a ` a \_ [ U S ^ a b W S f a ` a X U a ^ a [ V \_ [ ^ 3 U U a d V [ Y f a V [ W W W f Y d [ V [ Y f \_ W a X U a ^ a [ V \_ [ ^ e S \_ b W e S d W f S ] W f a U a ` X d \_ f Z W

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? S`ad;` hW6f\_ W f;` fa 7` WdYk ESh[ Y 3` V 7` h[da` \_ W fS^BdafWUf[a` 4k A d[W fS^KgZa` Y ;` \$" #+

Bcha`WUf	? WSegdW6	hW6f_ W f /D? 4#"!" "" " fi	DW6g fe
BdWwW f[a`	BdWwW f[a` S` V fW6f	#' \$Z) *	Ba`gyf[a` bdWwW f[a`
Ea`V i SefW	Ea`V i SefWfdW6f_ W f	' &"	L W6a W_ [ee[a`
3[d	3Uf[hSfW USdT`a` f USgef[UeaVS XS] W	\$( ' \$	Fa _ WWf`aUS^W h[da` _ W fS^ efS` VSdV
	! FdS` eXad_ Sf[a` aXVgefUa`WUfad! Ta[Wd UZ_ ` Wk	' \$Z*)	" #) DW6UZ[ Y FZW\$" #) >SfW6f 3[d7_ [ee[a` E fS` VSdV A X 4W6[ Y
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FZWFdSVWG` [a` ZSe eWf gb `STadV[ebgfW\_ W[Sfja` Ua\_ \_ [ffWWS` V `STadV[ebgfW\_ W[SfadfWS\_ t SVZVdWe fa [fe bdsUf[UWb aXVWb W YSYW\_ W fi [fZ W\_ b`akWWe fefW e fa fZWdha[UWb fZdagYZ hSc[age UZS` ` WeU S` ei Wee USdWg`k Zaf V[XUg`f S` V XaUge [eegVe aXfZWd Ua` UWd zFa fZW\_ S`ad [eegVe adbdT`W\_ e dWVUfW Tk W\_ b`akWWe fZWFdSVWG` [a` SVZVdWe fa fZW bq[ U]b`WfZSf `Ua` egf] Y \_ gefTWdWb WUW Ua\_ bS[ fe \_ gefTWVWS fi [fZ t S` V bcaUWbe[ Y adfWsf\_ W f\_ gefZShWS dWegef z

7\_ b'akVWéi STaddWSf[a` f eS'Sck` TW WXfi STadbdaFWUf[a` f i ad] fL W Za fVSk ekefV\_ S` V afZVdVhW fe fZSfSdW[ U'aeW dWSf[a` i [fZ W\_ b'akVWéi [ fWdVéfe SdVV[eUgeeVW Tk W\_ b'akVWdVbdVéW fSf[hWUa` XdW UWefd[Uf'k [ SUUadVS` UWi [fZ dWSfW ba fU[Vé S` V dWg'Sf[a` eZ FZWUa` XdW UWXg`k fefW VW fa ab[ [a` e S` V SVabfW egYYWéf[a` e aXfZWefSXi fZW



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;` SVV[fja` t fZVUa\_ bS` k S`ea bŠke SffW fja` fa UdVŠf[ Y eS X W k Ug`fgdWSf\_ aebZVdWŠ` V Tg[V[ Y S eS X W aUUgbSfja` S^ W h[ca` \_ W f z 3f fZVWbcaVgUfja` e[VW fZVdWŠZe TWW eVf gb i [fz aUUgbSfja` S^ZVŠfZ S` V eS X W k i Sd [ Y \_ Sd] e- A d[W fS^KgZa` Y USd[VW agf bVdjaV[US^ [ ebWUfja` e ahVd ZSd\_ Xg^egTefs` UWŠ egUZ Se Vgeff ` a[eWS` V ba[ea` t S` V W fdgefW cgS[XVW aUUgbSfja` S^ZVŠfZ eWch[UWbcah[VWŠe fa \_ S] WZVŠfZ [ ebWUfja` ahVd fZWbaefe i Z[UZ \_ Sk TWZSd\_ Xg^fa aUUgbSfja` S^ZVŠfZž;f gbYdŠVW S` V fdŠ` eXad\_ VW `STad bca fWUfja` XSU[ffVŠe SYS[ ef Vgeff ba[ea` S` V ` a[eW V[eUSd/VW agfVŠfW fWUZ` [cgVŠ S` V fWUZ` a`aY[VŠt S` V \_ bcahVW i ad] W h[ca` \_ W fe aXUa` efdgUfja` e[VVŠž

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VXXVdV fV\_ b`akVWēh i Z[UZ abW VW gb Xsef UZS` ` We Xad fZWUSdWdVWhWab\_ W faXV\_ b`akVWēž

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EkefW\_ Sf[U YgSdS` fWV A dW fS^KgZa` Y WefST`jeZVW W\_ b`akVWV`MSd [ Y [ fWdS`ekefW\_ S` V W\_ b`akVWVfgfad\_ WUZS` [e\_ t dWg`SdK W UagcSYW W\_ b`akVWV` fa bSd[U]bSfW[ aUUGbSfja` S`ff`fWS` V \_ [VZ` S` V Z[YZZ`W`hWaUUGbSfja` S`ff`fWUWd[XUSfja` ž BdWVdW f[S`ba`Uk egUZ Se bS[V Za`VSk S` V UWd[XUSfja` Wj bW eWdW\_ TgdeW\_ W fi [^TWY[hW fa W\_ b`akVWV` i Za SdV bdVbSd[ Y`Xd fZWUWd[XUSfja` žI ZW \_ S][ Y bca\_ afja` t bca`dfk i [^TWY[hW fa fZWV\_ b`akVWV` i Za efgVk SUf[hWk S` V SdV STWfa efgVkl S` V Si SdV i [^TWY[hW fa agfes` V[ Y efgVW fež

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Bca`WVee[a` S`fMSUZVeb, fZWUa\_ bS` k S` V i SfWbdaaXWj bWf` SeeaU[Sfja` S` V Ua`WVW` USdK agf efdSfW[U UaabWdSfja` fa dWg`SdK [ hfWVj bWf`e S` V eUza`Sde fa Y[hW`WUfgdW`ž;` SVV[f[fa` t A dW fS`KgZa` Y WefST`jeZVW [ fWd S`fMSUZVd UG fhSfja` S` V UWd[XUSfja` ekefW\_ fa SUUG\_ g`SfVd[UZ dWVchWaXfMSUZVebž

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1 Example 1:

A d[W fS^KgZa` Y 4g[V[ Y DW ahSf[a` ZW S fdS[ [ Y \_ VWf[ Y XdfWUZ` [US^W Y[ VWdbdaXWee[a` S^Ua\_ bWVW UWUWdf[XUSf[a` ž )" fWUZ` [US^W Y[ VWde Xba\_ eVch[UWUW fWde aXA d[W fS^KgZa` Y 4g[V[ Y DW ahSf[a` S^Sdag` V 5Z[ S ]WVb dWg^Sd efgVk S` V V[eUgee[a` Sf fZW\_ VWf[ Yž FZVK eZSdW ]` ai WYWdWegdUWē a` fWUZ` a`aYkI Wj bWd[W UW [ fWYW f egchVK Wcg[b\_ W fl bdaVgUfeU Uaef SUUag` f[ Y S` V Ua` efdjUf[a` eS^Wk \_ S` SYW\_ W fl WUZ` \_ SVW[ Ž VVbfZ Wj b`adSf[a` Xba\_ fWUZ` a`aYk Sbb[Uf[a` fa bdaWUf USeWēf S` V Xba\_ e] [^e fa Sbb[Uf[a` ež



2 Example 2:

4k SVhS` fSYWaXfZWUa` hW [W UWē aXfZVV[Y[fS^WdSf A d[W fS^KgZa` Y SUf[hWk USdb[VW agf fZWeZ[Xf S` V fdS` eXad\_ Sf[a` aX fdS[ [ Y \_ WfZaVēf ^Sg` UZWW a` ↑ W^hWVWgUSf[a` UagdeWēf UdMSfVW S` W fZdWZb[^SdekefW\_ fdS[ [ Y \_ aVWUa\_ T[ [ Y ekefW\_ gbYdSVW V[Y[fS^fdS` eXad\_ Sf[a` † S` V [ fWdSUFhWUa\_ \_g` [USf[a` ž ;f eZSdW ]` ai WYWdWegdUWēf bSeeVW a` Tge[ Wēe Wj bWd[W UW [ adWdf \_ S] WegUWēe [ fZWgfgdWi [fZ ;` ahSf[a` S` V FdS` eXad\_ Sf[a` ž

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4SeW a` fZWSeeWē\_ W f\_ WZaV Ua\_ T[ [ Y cgS f[USf[a` efS` VSdVt aUUGbSf[a` S^VhWab\_ W f b`S` ` [ YI S` V Ua\_ bWw Uk \_ aVW A dW fS`KgZa` Y W UagcSYW W\_ b`akWwē fa \_ S] WaT dafSf[a` S` V bda\_ af[a` fZdagYZ` ad\_ S^VhWab\_ W fi [ fWd S^ Ua\_ bWf[a` l S` V ebWU[S^Sbba[ f\_ W fZ

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EfdW YfZW bWad\_ S` UWXXWTSU] S` V [ bcahW\_ W fi fS] WcgSdWk W\_ b`akWwē bWad\_ S` UW[ fWd[W S` V fS`W f fMS\_ Ug f[hSf[a` Se a` WaXfZW\_ bafS` f dWēba` e[l[f[Ve aXfZVWVbSd\_ W f \_ S` SYWd S` V Sf fZWeS\_ Wf\_ W [ fdaVgUWS eW[Wē aXSeeWē\_ W f faaaVZžq OfWU Wwa ¥ f e` Wā S a !b` f dWā` `ēWē\_ W f VZž° b`





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fWUZ` [US` UWdfXUSf[a` t` Sfa` S^i SfWbdaaX` Y i ad] Wd UWdfXUSf[a` t bdaWUf\_ S` SYWd UWdfXUSf[a` t S` V eS^W e W Y[ Wd  
UWdfXUSf[a` žFZWfdS[ [ Y UahWw S fafS^aX%" bdaH[ UWeI aXi Z[UZ fdS[ WWe Xba\_ : W S` t: gTWI : g` S` t 3` Zg[S` V E [UZgS`  
SUUag` fW Xad (" . aXfZWfafS^fdS[ [ Yž;` 6WUW\_ TWd \$" #+! fZWUa^WwWe[y` Ww UaabWdSfa` SYdWw\_ W fe i [fZ 9gS` YI Zag  
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\_ SŁSfZa` Ł;` fZWŁad\_ aXYSd[SYWbgT ŁU i WŁSdW WUfgdWŁe i SefWb[U] [ Y S` V` aYY[ YŁ WUŁ [f YSfZVdW fZWbai WŁaXeaU[S^  
bgT ŁU i WŁSdWS` V XŁ X`WV fZWe`aYS` 4VŁSgfŁXg^5Z[ S ŁŁ; 3\_ fZW3Ufad Ł

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[ [f[SfW Łk fZW4VŁ[ Y ZWŁVcgSdWŁeŁ S` V \_ Wf i [fZ S cg[U] dWŁeba` eWŁk 9gS` YVa` Y A d[W fS^KgZa` YŁ K gVŁS` Y A d[W fS^  
K gZa` YŁ E ZW I ZW A d[W fS^KgZa` YŁ J [S` kS` Y A d[W fS^KgZa` YŁ <[ I Zag bŁaVgUf[a` TSeWS` V afZWŁTŁS` UZWŁŁ8Ła\_ \$" #` Ł

4 Example 4 :

A dW fS^KgZa` Y i a` \$" #+ 3e[S` 5acbadSfWE aU[S^DWeba` e[T[ffkZ E aU[S^I W SdW6 VhWab\_ W f 3i SdV

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;` ? Sk \$" #+Ĥ \$" #+ ;` fVd Sfja` S^5acbadSfWE aU[S^DWeba` e[T[ffk 8adj\_ eba` eadW T k fZW3e[S` 7` fWbd[eW5ZS\_ TWd aX5a\_\_ WdUWi Se YdS` V k abW WW [ FSi S` ž A dW fS^KgZa` Y i a` fZW \$" #+ 3e[S` 5acbadSfWE aU[S^DWeba` e[T[ffkZ E aU[S^BgT ŮU I W SdW6 VhWab\_ W f 3i SdV Īd [fe E VhW5 [f] W e[ DWgeW>V S] SYW bgT ŮU i W SdW bca WUf i Z[UZ bcah[VVe XdWdWbS[deVh[UWXd fZW EZS` YZS[5Z[VdW e DWZST[ffSfja` F dS[ [ Y 5W fVd ž



F dS` e\_ [ee[a` A X>ahW

A dW fS^KgZa` Y faa] eaU[S^dWeba` e[T[ffk Se [fe ai ` dWeba` e[T[ffkZ FZWUa\_ bS` k bS[V TSU] fZWeaU[Wk i [fZ VWgUSfja` egbbadfi W h[ca` \_ W fS^bca fWUfja` Ů Ug fgdWbca\_ afja` Ů S` V eaU[S^USdV;f [ b`W\_ W fW eaU[S^dWeba` e[T[ffk i [fZ b dSUrŮUS^ SUfja` e[ bca\_ afWV ZSd\_ a` [age S` V efMSVk VWhWab\_ W f aXW fWbd[eWS` V eaU[Wk[ Ů fWV dSfW eaU[S^dWeba` e[T[ffk [ fa UacbadSfWVhWab\_ W fi S` V Ua\_ T[ W UacbadSfWUg fgdWUa` efcgUfja` i [fZ eaU[S^dWeba` e[T[ffk;f US^WV VXXWV f U[dUWe fa VWhafWfZW\_ eWhVe fa bgT ŮU i W SdW S` V Ua` fdTgfWfa fZWUdV Sfja` aXS ZV S fZk ŮXWV h[ca` \_ W fZ

A dW fS^KgZa` Y eZai VW `ahWS` V Wj bdWeeW SbbdW;Ü Q

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### 3 SecY

A d[W fS^KgZa` Y ai Vē S^fe Tge[ Vēe egUUVē S` V bcaYdVēe fa agdf[ W fa agdUag` fckl fa fZWYW Wāge S` V eVWVē egbbad` aXagdUgefa\_ Wēl S` V fa fZVWVWb USdWS` V `ahWaXagdeaU[Wkž 3↑ Ske ZSh[ Y S fZS` ] eY[h[ Y ZWScf S` V S↑ Ske USd[ Y STagf fZWbWāb`WZSe TVWV fZWTSe[U XVSfgdVē aXfZWUg`fgdWaXA d[W fS^KgZa` Yl S` V Sēa fZWUd[VWdS fZSf A d[W fS^KgZa` Y S↑ Ske gbZa Vē S` V W\_ TdSUVē [ fe bgdēg[f aXUadba`SfWeaU[S^dVēba` eT[fkž

—>[I WYga



**OR ENTAL YUH**