ÞŐÍTNMÁŠTKTNŠ ŠNŁÞSÍTÍNŠAKÕMANÛŁŒKÕONAŁPØØÍŠŠÍPÕ ÚV~ŽæZ*àæDAMÉŁÉAÐËGFÎ

,583 Lfl17

ÃØV^âAPæÝB

А	×	RÞKSTNSÒÜASNQPSTAQÞSŠÞKÕTATPAŠNŁTÓPÕAÈ€APSAÈGĀYBAPÑATŒNAŠNŁÞSÓTÓNŠANÛŁŒKÕONAKŁTAPÑAÈ΀F
		Ñà^ル*ŽÝAR@V^*Ý^´ AQÝ^₃àYANæYÝYÅŠÝ&*Ý ä WÝ^ル€ËDAÐËЀA
		PΛ
٨		TSKŐŠÓTÓPŐASNQPSTAQÞSŠÞKŐTATPAŠNŁTÓPŐAÈ€APSAÈGÁYBAPÑATŒNAŠNŁÞSÓTÓNŠANÛŁŒKÕONAKŁTAPÑAÈ΀F

Łàääa~~aàæAŸaÝAæ@äWÝ^AŁıŁ"\$ŁŁ



; MHSDC 9S@SDR 9SDDK) NQONQ@SHNM

ÄN\VX*AæV ä ÝAàŸA^ÝZa~*^Væ*AV~A~&ÝXaŸaÝYAaæAa*~AXŽV^*Ý^B

* DK@ V@QD

ÅŠ*V*ÝAà^Aà*ŽÝ^Aá@^2~Y2X*aàæAàŸAaæXà^&à^V*aàæB

"fifi - Q@MS 9SQDDS* 6HSSRATQFG* 6'

ÄKYY^Ý~AàŸA&^aæXa&V'AÝ\ÝX@*aãÝAàŸBXÝ~B

ÄÜ2&AŁàYÝB

ĨŁŁŁŁŁ ĀSÝZa~*^Væ*•~A*Ý´Ý&ŽàæÝAæ@äWÝ^DAæX´@YaæZAV^ÝVAXàYÝB

ŠÝX@^a*aÝ~A^ÝZa~*Ý^ÝYA&@^~@Væ*A*àAŠÝX*aàæAÈĐĀWBAàŸA*ŽÝAKX*Ï

Ta*´ÝAàŸAÝVXŽAX´V~~	T^VYaæZAŠ äWà′	ÕV ä ÝlàŸlÝVXŽlÝ\XŽVæZÝlàælbŽaXŽl^ÝZa~*Ý^ÝY			
Þæ³*ÝYÅŠ*V*Ý~ÅŠ*ÝÝ′ÅŁà^&à^V*ŝàæÅŁàäääàæÅŠ*àXâ	Û	ÕÝb\lÜà^â\Š*àXâ\N\XŽVæZÝ			
Þæð*ÝYAŠ*V*Ý~AŠ*ÝÝ′AŁà^&à^V*ðàæAŁàäääàæAŠ*àXâ	Û	ŁŽ₃XVZàฝŠ*àXâฝN\XŽVæZÝ			

<u>/4 * +></u>

	1.3.18 7	<u>QVZY</u>
QKSTA0A]AN0OKC	PŁÍKÒŃŐÑPSØKTÍPŐ	
Ó*ÝäAÈÉ	ÑaæVæXaV′AŠ*V*Ý ä Ýæ*~Ï	
	ŁàæYÝæ~ÝYAŁàæ~à´aYV*ÝYAŠ*V*Ý ä Ýæ*AàŸAP&Ý^V*aàæ~AĀÞæV@Ya*ÝYB	<u>È</u>
	ŁàæYÝæ~ÝYAŁàæ~à´aYV*ÝYAŠ*V*Ý ä Ýæ*AàŸAŁà ä &^ÝŽÝæ~aãÝAĎæXà ä ÝAĀÞæV@Ya*ÝYB	<u>Ð</u>
	ŁàæYÝæ~ÝYAŁàæ~à´aYV*ÝYALV´VæXÝAŠŽÝÝ*AÅÞæV@Ya*ÝYB	€
	ŁàæYÝæ~ÝYAŁàæ~à´aYV*ÝYAŠ*V*ÝäÝæ*AàŸAŁV~ŽAÑ´àb~AĀÞæV@Ya*ÝYB	<u>E</u>
	<u>Õà*Ý~Å*àÅŁàæYÝæ~ÝYÅŁàæ~à´aYV*ÝYÅÑaæVæXaV´ÅŠ*V*Ý ä Ýæ*~ÅÅÞæV@Ya*ÝYB</u>	<u>G</u>
Ó*Ý ä AÐÉ	<u>ØVæVZÝ ä Ýæ*•~AMa~X@~~aàæAVæYAKæV´ </u> ~a~AàŸAÑaæVæXaV´AŁàæYa*aàæAVæYASÝ~@´*~AàŸAP&Ý^V*aàæ~	<u>Đ Î</u>
Ó*ÝäA€É	R@Væ*a*V*aãÝAVæYAR@V´a*V*aãÝAMa~X´à~@^Ý~AVWà@*AØV^âÝ*ASa~â	<u>F€</u>
Ó*ÝäAFÉ	Łàæ*^à´~AVæYAQ^àXÝY@^Ý~	<u>F€</u>
QKSTAÓÁ]APTŒN	ISÁÍŐÑPSØKTÍPŐ	
Ó*Ý ä AÈÉ	<u>ÒÝZV′ÁQ^àXÝÝYæZ~</u>	<u>FF</u>
Ó*ÝäAÈKÉ	Sa~âhÑVX*à^~	<u>F1</u>
Ó*ÝäAÐ	Q@^XŽV~Ý~AàŸANå@a* AŠÝX@^a*aÝ~AW AÓ~~@Ý^AVæYAKŸŸa′aV*ÝYAQ@^XŽV~Ý^~	<u>F1</u>
Ó*ÝäA€	MÝŸV@´*~h@&àæhŠÝæaà^hŠÝX@^s*sÝ~	<u>F1</u>
Ó*ÝäAFÉ	ØæÝÅŠVŸÝ* AMa~X´à~@^Ý	FIFI

: GQDD 3 NM\$GR +MCDC 9DO\$D L ADQ ŽfI*			4HMD 3 NMSGR +MCDO 9DOSD L ADQ ŽfI			
"* NKK@QR HM LHKKHNMR" DWBDOS ODQ RG@QD @ LNTMSR.	łflłŽ		łflłł		łflłŽ	łflłł
4D\$ R@KDR&						
ÕÝ*A~V´Ý~	Ŭ Ž %žŽ	ÂA	FDHH I A	v	Łł ĭŽ#! Â	A ÈGD€ËFA
ÕÝ*A~V´Ý~A*àA^Ý´V*ÝYA&V^*∂Ý~AĀÕà*ÝAÈÎB	ž\$\$	A	G€HA		Ł"!Žž A	ÈDFĐ€A
Tà*V´ÁÅÕà*ÝÁHB	ž`žŽŁ	A	GDÐË€A		ŁŽ~%fl% A	ÈHDIÐIA
5 ODQ@SHMF DWODMRDR "HMBN L D &						
Łà~*AàŸA~V´Ý~AĀÝ\X´@YÝ~Aª*Ýä~A~ŽàbæAWÝ´àbB	ž*\$Ž\$	A	FD€GÎA		ŁŁ~%! ł A	ÈÐDÍF€A
ŠÝ′′aæZDAZÝæÝ^V′AVæYAVY ä aæa~*^V*aãÝAÝ\&Ýæ~Ý~	ŁŁ\$	A	ÎGA		Žłfi A	€ÐFA
MÝ&^ÝXaV*aàæDAYÝ&´Ý*aàæAVæYAV ä à^*a{V*aàæ	łŽfl	A	ÈÎÍA		"#! A	GÎFA
NV^ææZ~AŸ^à ä AæãÝ~*ÝÝ~	″!Ł	A	à I ÈBA		″#" [A	ÃĐËĐB
K~~Ý*Aa ä &Va^ ä Ýæ*AXŽV^ZÝ~]	A	~ A		ž A	ÈGIA
SÝ~*^@X*@^aæZAVæYAà*ŽÝ^AXŽV^ZÝ~AĀÕà*ÝAÐËB	Ł\$	A	Đ€A		łŁ A	GIA
P*ŽÝ^A´à~~Ý~AĀZVæ~BDAæÝ*	Ł	A	ÃÈGBA		~1_# [A	ÀÐB
Tà*V′	ž Ł! ž	A	FDGÍÎA		Łł~\$#% A	È€DIFÈA
+@QMHMFR ADENQD HMSDQDRS @MC HMBN L D S@WDR	ł##	A	HÈFA		Ł"flŽfl A	ÐDÎÍHA
Óæ*Ý^Ý~*AÝ\&Ýæ~Ý	Ł"	A	€ÍA		"Ž A	ÈÐIA
Óæ*Ý^Ý~*kaæXà ä Ý	″Ž%	A	ÃÈGBA		~ŁflŽ į A	ÃĐËB
P*ŽÝ^AĬ³æVæX³V´AXà~*~	#	A	IA		Ł% A	ÐIA
ÕÝ*A&Ý^aàYaXAWÝæÝŸa*AaæXà äÝ	~žł	A	ÃHËBA		~L ł! (A	ÃÈ Í ÐB
$\tilde{O}\acute{Y}^* \text{AZVa} \text{a} \text{A} \hat{I} \hat{I} \hat{I} \hat{I} \hat{I} \hat{I} \hat{I} I$	″li	A	~ A		~Ž" , A	~ A
ÕÝ*Aaæ*Ý^Ý~*AVæYAà*ŽÝ^AŸaæVæXaV´AWÝæÝŸa*~	‴'ž	A	ÀËBA		~L\$ ł, A	ÃFÍB
+@QMHMFR ADENQD HMBN L D S@WDR	ŽžŁ	A	HFFA		Ł *łŁł A	€DË€FA
ÓæXà ä ÝA*V\AÝ\&Ýæ~ÝAĀÕà*ÝAÈÐB	žł	A	ÈGFA		ł Ž# A	HÍFA
ŐÝ*ÄÝV^ææZ~	ł%%	A	FÎËA		%#! A	ÐD€GËA
ÒÝ~~ÏAÕÝ*AÝV^ææZ~AV**^æW@*VW´ÝA*àAæàæXàæ*^à´´æZAæ**Ý^Ý~*~	[A	~ A		[A	~ A
4DS D@QMHMFR @SSQHATS@AKD SN ; MHSDC 9S@SDR 9SDDK) NQONQ@SHNM	~ ł%%	Â۸	FÎËA	v	% #! Â	A ÐD€GËA
+@QMHMFR ODQ BN L L NM RG@QD ~4 NSD ŁŽ_&						
NV^ææZ~l&Ý^l~ŽV^ÝlV**^lW@*VW´Ýl*àlÞæ*ÝYlŠ*V*Ý~lŠ*ÝÝ´lŁà^&à^V*làæl ~*àXãŽà´YÝ^~Ï						
EL-V~aX	Ŭ Ł∕Žž	Â۸	ÐÉËTA	v	ž/ŽŽ Âl	A ÎÉ€€A
EMa´@*ÝY	ŭ Ł∕łfl	Â۸	ÈÉ Í GA	v	Ž/\$" Â/	A ÍÉ€ÍA

	: GQDD 3 NMSGR +MCDC 9 DOSD L ADQ ŽfI*			4HMD 3 NMSGR +MCDC 9DOSD L ADQ ŽfI*		
"* NKK@QR HM L HKKHNMR.	łflłŽ		łflłł	łflłŽ		łflłł
ŐÝ*ÅÝV^ææZ~	~ ł%%	Â۸	FÎËA	~ %#!	Â۸	ÐD€GËA
P*ŽÝ^AXà ä &^ÝŽÝæ~aãÝAaæXà ä ÝAĀ´à~~BDAæÝ*AàŸA*V\Ï						
ŁŽVæZÝ~AsæAŸà^ÝsZæAX@^^ÝæX A*^Væ~´V*sàæAVYs@~* ä Ýæ*~	″Ž!ر	A	à ΠĐBA	۳źٔ ر	A	ÃĐĐËBA
ŁŽVæZÝ~AaæA&Ýæ~aàæAVæYAà*ŽÝ^AÝ ä&´à ÝÝAWÝæÝŸa*AVXXà@æ*~	ĨŁŽ _ͺ	A	~ A	″Ž!ر	A	ÃÐBA
ŁŽVæZÝ~AaæAYÝ^aãV*aãÝAĬaæVæXaV´Aaæ~*^@ ä Ýæ*~	ž#	A	ÈÍA	Ž"	A	GFA
ŁŽVæZÝ~AaæAľVa^AãV´@ÝAàľAVX*aãÝAÝ ä&´à ÝÝAWÝæÝŸa*AaæãÝ~* äÝæ*~	Ł	A	~ A	Ž	A	~ A
Tà*V´Aà*ŽÝ^AXà ä &^ÝŽÝæ~aãÝAæXà ä ÝAĀ´à~~BDAæÝ*AàŸA*V\	[A	ÃIFBA	[A	ÃÈH Í BA
Łàä&^ÝŽÝæ~ıãÝkæXàäÝkæX`@YıæZkæàæXàæ*^à´´ıæZkæ*Ý^Ý~*	ł %%	A	FÈHA	%#!	A	ĐOÈ Í ĐA
Łàä&^ÝŽÝæ~ıãÝkæXàäÝkV**^sW@*VW´Ýk*àkæàæXàæ*^à´´aæZkæ*Ý^Ý~*	[A	~ A	[A	~ A
Łà ä &^ÝŽÝæ~aãÝkæXà ä ÝkV**^aW@*VW'Ýk*àkÞæa*ÝYkŠ*V*Ý~kŠ*ÝÝ'k Łà^&à^V*aàæ	~ ł%%	ÂA	FÈHA	~ %#!	ÂA	ĐOÈ Í ĐA

TŽÝAVXXà ä &Væ|aæZAæà*Ý~AV^ÝAVæAæ*ÝZ^V'A&V^*AàŸA*ŽÝ~ÝAXàæYÝæ~ÝYAXàæ~à´aYV*ÝYAŸaæVæXaV'A~*V*Ý ä Ýæ*~É

;4/:+*9:':+99:++2)58658':/54)54*+49+*)54952/*':+*('2'4)+9.++: ~;M@TC\\SDC_\L@^\%.\%

~* NKK@QR HM ∟HKKHNMR.		DLADQŽfI [*] łfiłž	* DB	DLADQŽŁ* łflłł
'RRD\$R				
Ł@^Yœ*AV~~Y*~Ï				
ŁV~ŽAVæYAXV~ŽAÝå@aãV´Ýæ*~AĀÕà*ÝAIB	Ü	Ž"łłł	ÂA	€DGËF
SÝXÝaãVW´Ý~DA´Ý~~AV´´àbVæXÝAàŸA€ÎAVæYA€Í		Łžflž	A	ÈDFÍG
SÝXÝaãVW´Ý~AŸ^à ä A^Ý´V*ÝYA&V^*aÝ~AĀÕà*ÝAÈÎB		ŁŽ#	A	ÈGË
ĺæãÝæ*à^'nÝ~ÃÃÕà*ÝÅÍB		łˇŽflž	A	ÐD€GÎ
P*ŽÝ¼X@^^Ýæ*ÅV~~Ý*~		Žł\$	A	€HÍ
Tà*V'AX@^^Ýæ*AV~~Ý*~		# ` Ž%!	A	IDÍHH
ÒàæZE*Ý^ ä ŀ^Ý~*^sX*ÝYŀXV~ŽŀĀÕà*Ýŀ I B		Žł	A	€È
P&Ý^V*aæZA´ÝV~ÝAV~~Ý*~		<u>ŁŁ</u> "	A	ÈFH
Q^à&Ý^* D&Væ*AVæYAÝå@&äÝæ*		łŽˇfl%#	A	ĐÈŒĐĐĐ
ÒÝ~~AVXX@ ä @´V*ÝYAYÝ&^ÝXaV*aàæAVæYAYÝ&´Ý*aàæ		ŁŽˇŁ\$"	A	ÈÐ≀I€É
Tà*V´\&^à&Ý^* D\&´Væ*\VæY\Ýå@a&äÝæ*D\æÝ*		% ~%ŁŁ	A	ĺDFÎE
ĺæãÝ~* ä Ýæ*~₦VæYŀíàæZE*Ý^ ä ŀ^ÝXÝŧãVW´Ý~ŪŀŤ^~~₦V´´àbVæXÝŀàŸŀ€₦VæYŀÂF		\$"Ž	A	ÍFÉ
ĺæ*VæZ₃W´Ý~DkæÝ*AĀÕà*ÝAÎB		žž#	A	FI
MÝŸÝ^^ÝYAœXà ä ÝA*V\AWÝæÝŸa*~AĀÕà*ÝAÈÐB		[A	ÈĖ
OààYba′′ÃÃÕà*ÝÃÎB		%łfl	A	ÎĐĖ
P*ŽÝ\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		#ŁŁ	A	HIG
Tà*V'AV~~Ý*~	J	łfľŽ%!	ÂA	ÈÎDFG
2H@AHKHSHDR				
Ł@^Yœ*A′aVWa′a*aY~Ï				
KXXà@æ*~A&V VW´YAVæYAà*ŽÝ^AVXX^@ÝYA´aVWa´a*aÝ~	D	% .%		

;4/:+*9:':+99:++2)58658':/54)54*+49+*)54952/*':+*9:':+3+4:5,)'9.,25=9 ";M@TCHSDC

4HMD 3 NMSGR +MCDC 9DOSD L ADQ Žfl°

** NKK@QR HM L HKKHNMR.	łflłŽ		łfl∤∤
/MBQD@RD "CDBQD@RD, HM B@RG" B@RG DPTHU@KDMSR @MC QDRSQHBSDC B@RG			
5 ODQ@SHMF @BSHUHSHDR&			
ŐÝ*ŀÍÝV^ææZ~	%#	! ÂA	ÐD€GËA

4 NSDR SN) NMCDMRDC) NMRNKHC@SDC . HM@MBH@K 9S@SD L DMSR ": M@TCHSDC

Ł/ (@RHR NE 6QDRDMS@SHNM @MC 9HFMHEHB@MS 'BBNTMSHMF 6NKHBHDR

₹/ 4DV 'BBNTMSHMF 9S@MC@QCR

M@^aæZA *ŽÝA æaæÝA ā àæ†Ž~A ÝæYÝYA ŠÝ&*Ý ä WÝ^A €ËDA ĐËĐ€DA *ŽÝ^ÝA b Ý^ÝA æàA VXXà@æ*aæZA ~*VæYV^Y~A VæYA aæ*Ý^&^Ý*V*aàæ~A a~~@ÝYA b ŽaXŽAV^ÝAÝ\&ÝX*ÝYA*àAŽVāÝAVA ā V*Ý^aV′Aa ā &VX*AàæA*ŽÝAŁ à ā &Væ | أ~AĬaæVæXaV′A&à~a*aàæDAà&Ý^V*aàæ~Aà^AXV~ŽAĬ′àb~ÉA

Ž/ 8DBDMSKX 'CNOSDC 'BBNTMSHMF 9S@MC@QCR

ÚœAŠÝ&*Ý ä WÝ^AÐËĐĐDA*ŽÝAÑæVæXaV′AKXXà@æ*aæZAŠ*VæYV^Y~A LÀV^YAĀÑKŠLBAa~~@ÝYAKXXà@æ*aæZAŠ*VæYV^Y~A Þ&YV*ÝAÐËĐĐEËFDA

CKÖ /NOÖØÔ ĴAO/ĬAÐØŒŒM ĴÔADKÑĢÑ / ĴAËÔO ĴÔG NAÊHM ĴĠĊKOÑČAŘKŠÞAÐËĐĐEËFBÉAKŠÞAÐËĐĐEËFA^Ý å@a^Ý~A*ŽV*AVæAÝæ*a* ĮAYa~X ća~ÝAXÝ^*VæA
aæŶà^ä V*aàæAVWà@*A~@&&´aÝ^AŸaæVæXÝA&^àZ^V ä ~A@~ÝYAaæAXàææÝX*aàæA ba*ŽA*ŽÝA&@^XŽV~ÝAàŸAZààY~AVæYA~Ý^ãaXÝ~ÉAKŠÞAÐËĐĐEËFA
a~AÝÑÝX*aãÝAŊà^AV′ſAÝæ*a*aÝ~A ba*Ža&A*ŽAVA —A ba*Ža&A*ŽAVA MÝXY ä WÝ^A ÈGDAÐËĐĐDA VæYAæ*Ý^a ä A&Ý^aàY~A ba*ŽaæA*Žà~ÝAŊa~XVſA

[ÝV^~DĀÝ XÝ&*ĀŶā^Ā*ŽÝĀV ä ÝæY ä Ýæ*AàæĀ^´ſĔŶà^b V^YAæ¥Ìà^ ä V*aàæÐA b ŽaXŽAa~ÁŶſŶŶX*aãÝĀŊĀ~XVſA | ÝV^~AWÝZææææZAVŶ*Ý^AMÝXÝ ä WÝ^A
ÈGDAÐĒĐ€£A ÞĒAŠĒAŠ*ÝY ſA VYà&*ŶAŶA*ŽA~A Z@aYVæXÝA ÝŶŶY*aãÝA ÔVæ@V^ | A ÈDAÐĒĐĐDA ba*ŽA*ŽYAŶ &*aàæA àŸA*ŽÝĀV ä ÝæY a Ýæ*AàæA^àſŒ
Ŷà^b V^YAæØŶå^ā V*aàæÐA b ŽaXŽAbaſAWŶAVA&*ÝYAæAA@^AÑa~XVſA | ÝV^AWÝZææææZAÀæAÂÔVæ@V^ | A ÈDAÐĒĐĒÐĒ

TŽÝk@æYÝ^´ | aæZkXà~*~k³\à a a ~@&& àÝ^~k*ŽV*kÝ 'YX*ÝYk*à&&V*Ýkæk*ŽÝkŠŁÑk&^àZ^V ä kV^ÝkZÝæÝ^V´′ | k^ÝXà^YÝYkàækXà~*kàŸk~V 'Ý~kaæk*ŽÝkŁà ä &Væ|•~k ŁàæYÝæ~ÝYkŁàæ~à 'aYV*ÝYkŠ*V*Ý ä Ýæ*kàŸkP&ÝvV*àææ-ÉkK ä à@æ*~kY@Ýk*àk~@&& 'aY^~k bŽàk&V^*axa&V*Ýkaæk*ŽÝkŠŁÑk&^àZ^V ä k V^Ýk*ÝYk aæk VXXà@æ*~k&V| WÝk VæYk VXX^@ÝYk Ý\&Ýæ-Ý~kàæk*ŽÝkŁà ä &Væ|•~kŁàæYÝæ~ÝYkŁàæ~à 'aYV*ÝYkLVVæXÝkŠŽÝY*kVæYk&V| ä Ýæ*~kàæk*ŽÝkàW′aZV*aàæ~kW|kà@^k~&& 'aY^~kV*YkaækXVV~Žk@~ÝYkaækXVV~Žk@~ÝYkaækXVV*äæzkVX*aãa*a*Yv*¥YkŁàæYÝæ~ÝYkŁàæ~à 'aYV*ÝYkŠ*V*Ý ä Yæ*kàŸkŁVמkaæk*ŽÝkàW′aZV*aàæ~kW|kå@^k~k*Ý ä WY^keĒDkDĒĐ€DkVXXà@æ*~k&V|VWÝkVæYkVXX^@ÝYkÝ\&Yæ~Ý~kæX*@YYkh\å*ak~à 'aYV*ÝYkå*V*X*@¥Ykh\å*ak*Y*aæXkV*aæZkVX*aæZk\å*a*V*aæZk\å*a*V*aæZk\å*a*V*aæZk\å*a*V*aæZk\å*a*V*aæZk\å*a*V*aæZk\å*a*V*aæZk\å*a*V*aæZk\å*a*V*aæZk\å*a*V*aæZk\å*a*V*aæZk\å*a*Zk

ÓœA P X *à WÝ ^ AÐËÐÈDA*ŽÝ AÑKŠ LAa~@Ý YAKXXà @æ*aæZAŠ*VæYV^Y~AÞ&YV*Ý AÐËÐÈEË Í DAÃI / OØ ÑŮKÑ Ì A ÏOÓA BO ÑŮÓ G JÒĀÃÖÖ ÎÒÖAGÑ Í A BO ÑŮÓ G JÒÆ ÉKGHMIŇK Î ÖA ĬÃO NA BO ÑŮÓ G JÒÖA PŘŮ JA BØ ÖŮO N ÎÔÖAĀKŠ ÞAÐËÐÈEË Í BÉAKŠ ÞAÐËÐÈEË Í AP ^ A*ŽV*A VæAÝæ*a* | A ^ Ý Xà Zæa { Ý A VæYA ä Ý V~@^ Ý A Xàæ*^VX*A V~~Ý*~A VæYA Xàæ*^VX*A Zaæ4 YA VæYA Ä Ä Ý V~ QA YA Ä Ä VA WA Ä Ä WaæV*aàæAaæA VXXÀ V~ VæXÝA ba*ŽATà&aXAHËHDA È ÎÔ Î ÑØ ÎA ÎÑO NA BO ÑŮÓ G I ÔÖA PŘŮ JA BØ ÖŮO N ÎÔŒAKŠ ÞAÐËÐÈDÈEË Í Aa~AÝŸÝ X*aã ÝAŸÀ^A& @W'aXAXÀ Ä & VæaÝ ~ A ba*ŽAŸa~XV / A | Ý V^~AWÝ ZaææææZAVŶ*Ý ^A MÝ XÝ Ä WÝ YAÈGDA ĐËĐĐDA VæYA Bæ*Y A BA & YA À A A BA XÝ A A BA*ŽÀA~A BA XÝ A A BA XÝ A BA XÝ A A BA XÝ A BA WæV A A BA XÝ A BA XÝ

ž/ 9DF L DMS /MENQ L @SHNM

ÞÉÁŠÉÁŠ*ÝÝ'AŽV~ÁŸà@^A^Ý&à^*VW'ÝA~ÝZ ä Ýæ*~ĬĀŐÀ^*ŽÁK ä Ý^¾XVæÁÑ'V*ESà'´ÝYAĀÑ'V*ESà'´ÝYBÐAØaæaAØa'´ſDAÞÉAŠÉÁŠ*ÝÝ'AN@^à&ÝAĀÞŠŠNBÌA VæYAT@W@`V^AQ^àY@X*~ĀĀT@W@`V^BÉATŽÝA^Ý~@'*~ÀàŸAà@^A^ÝV'AÝ~*V*ÝAW@~aæÝ~~Ý~AV^ÝAYa~X'à~ÝYAæA*ŽÝAP*ŽÝ^AXV*ÝZà^IÉA TŽÝAX޲ÝÅA&ݰV*æZAYÝXa~aàæA ä VâÝ^AÝãV'@V*Ý~A&Ý^Ÿà^ ä VæXÝAVæYAYÝ*Ý^ ä æÝ~A^Ý~à@^XÝAV'`àXV*aàæ~AWV~ÝYAàæAVAæ@ ä WÝ^AàÝA

ŸVX*à^~DA*ŽÝA&^a ä V^|A ä ÝV~@^ÝAWÝæZAÝV^ææZ~AĀ à~~BAWÝŸà^ÝAææ*Ý^Ý~*AVæYAæXà ä ÝA*V\Ý~ÉANV^ææZ~AĀ à~~BAWÝŸà^ÝAææ*Ý^Ý~*AVæYA
æXà ä ÝA*V\Ý~A Ÿà^A^Ý&à^*VWÝA~ÝZ a Ýæ*~A VæYA*ŽÝA P*ŽÝA XV*ÝZà^|A YàÝ~A æà*A æX`@YÝA æ*Ý*A ææ*Ý^Ý~*A VæYA à*ŽÝ^A¾æVæXaV'A Xà~*A
ĀæXà ä ÝBDAæXà ä ÝA*V\Ý~DA~*àXâEWV~ÝYAXà ä &Ýæ~V*aæAÝ\&Ýæ~ÝDAVæYAXÝ^*VæAà*ŽÝ^A¾Ý ä ~A*ŽV*A ä VæVZÝ ä Ýæ*AWÝ'a¥āÝ~AV^ÝAæà*A
æ¥YaXV*aāÝAàŸAŸ®*@^ÝA^Ý~®'*~É

TŽÝA VXXà@æ*æZA &^sæXa&´Y~A V&&´aÝYA V*A *ŽÝA à&Ý^V*æZA ~ÝZ ä Ýæ*A ´ÝãÝ´A æA YÝ*Ý^ ä æææZA ÝV^ææZA Ā Ä`à~~BA Wݹà^ÝA æ*ŤÝ^Ý~* VæYA æXà ä ÝA*V\Ý~AV^ÝAZÝæÝ^V´´ | A*ŽÝA~V ä ÝAV~A*Žà~ÝAV&&´aÝYAV*A*ŽÝAXàæ~à ´aYV*ÝYAŸæVæXaV´A~*V*Ý ä Ýæ*A ´ÝãÝÉAÛæ*Ý^~ÝZ ä Ýæ*A~V´Ý~A VæYA *^\Dæ~\A`\A`VA*A VæYA V^ÝA VXÀa@æ*ÝYA V*A ÄÄXÀ&à^V*ÝA V*A *ŽÝA Xà^&à^V*ÝA V*A àæ~à ´aYV*aàæA ´ÝãÝÉA Łà^&à^V*ÝE´ÝãÝ´A~Ý`@ZDAZÝæÝ^V´AVæYAVY ä ææ~*^V*aãÝAÝ\&Ýæ~ÝAVæYAXà~*~A^Ý`V*ÝYA*àAXÝ^*VææÅ`à^ ä Ý^AW@~aæÝ~~Ý~AVAÝAV´`àXV*ÝYA *àA*ŽÝAVÝ&à^*AVWÝA*ŽAXVÝA*VæYAP*ŽÝ^AWV~ÝYA&æA ä ÝV~@^Ý~AàŸAVX*aãa* | A*ŽV*A ä VæVZÝ ä Ýæ*AWÝ´aÝãÝ~AV^ÝA^ÝV~àæVW´ÝÉ

TŽÝ&^Ý~@*~\àŸ\a~ÝZ ä Ýæ*\à&Ý^V*aàæ~\\à^*ŽÝ*Ž^ŶÝ\á àæ*Ž~\\ÝæYÝY\&ŠÝ&*Ý ä WÝ^\€ËD\ÐËЀD\VæY\ÐËÐÐ\V^ÝÏ

″/M LHKKHNMR : GQDD 3 NMSĞR +MCDC 9DOSD L ADQ Žflĭ ∤fl∤Ž	,	RSN L DQ)@KDR	/MSDQRDF L DMS 9@KDR	4D\$ 9@KDR	+@QMHMFR EQN L HMUDRSDDR	+@QMHMFR "KNRR, ADENQD HMSDQDRS @MC HMBN L, D S@WDR"
Ñ'V*ESà''ÝY	Ü	ł *#ž%	\$!	ĭ ł `\$ Žž	~ Ž%	~ { ł ł!
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ÞŠŠN		\$Ž\$	п	\$žž	[ĨŁŽ _ͺ
T@W@ <i>`</i> V^		ŽŁž	[ŽŁž	Łł	\$#
Tà*V´l^Y&à^*VW´Yl~YZäYæ*~		žˇžŽfl	łŽŁ	ž`""Ł	!Ł	ŽžŁ
P*ŽÝ^		Ł	[Ł	[#
SÝXàæXa′aæZAÓ*Ý ä ~AVæYAN′a ä aæV*aàæ~		[″łŽŁͺ	″łŽŁͺ	[″#Łͺ
Tà*V′	v	ž ° žŽŁ	[Ŭ ž žžŽŁ	ٽ!Ł	` {##
: GQDD 3 NMSGR +MCDC 9DOSD L ADQ Žfl* ffl t						
Ñ'V*ESà''ÝY	ÂA	€DÐFÍA Â	À ÈËFA	ÂA €D€GÐA	ÂA GÎA	ÂA GÈÍA
ØaæaAØa´´	A	HËÐA A	HËA	A HHĐA	A ~ A	À ÈA
ÞŠŠN	A	ÎÐGA A	ÐA	A ÎĐIA	A ~ A	. A ÀÐBA
T@W@´V^	A	FÐGA A	~ A	A FÐGA	A ÈĐA	A ÈGGA
Tà*V´A^Ý&à^*VW´ÝA~ÝZäÝæ*~	A	GDÐËËA A	ÈHHA	A GD€HHA	A IÈA	A HFÐA
P*ŽÝ^	A	€A A	~ A	A €A	Α ~ Α	A ĐÈA
SÝXàæXa′aæZAÓ*Ý ä ~AVæYAN′a ä aæV*aàæ~	A	~ A A	ÃÈHHBA	A ÃÈHHB	AA ~ A	A ĀFÎBA
Tà*V′	ÂA	GDÐË€A <i>Â</i>	ÀA ~ A	ÂA GDĐË€A	ÂA IÈA	ÂA HÈFA

^{Åv6}ANV^æaæZ~Åi^{*}à~~BAWÝ[†]à^ÝAæ*Ý^Ý~*AVæYAææXà ä ÝA*V\Ý~ÅŽV~AWÝÝæA@&YV*ÝYAĬà^Å*ŽÝA*Ž^ÝÝA ä àæ*Ž~ÅÝæYÝYAŠÝ&*Ý ä WÝ^¾€ЁDAÐЁÐÐDAÌÀMÑ 'V*ESà´´ÝYA VæYA ŞŶXàæXá³æZA Ů[†]Ý ä ~A VæYA N³¡ä æv³ààæ-EA TŽ3~A ≈~A *ŽÝA ^Y~@ *Å, à™A VA ^Y*^àVX³āÝA VYá@~[‡] ä Ýæ*¾ Ìà^¾ *ŽÝA ^ÝXV~~a½XV*ààæÅ ༠~[‡]àXĀEWV~ÝYA Xà ä &Yæ~V*aàæÅÝ\&Ýæ~ÝAV~ÅVæAå*Ý ä Åæà*ÅV´´àXV*ÝYA *ÀA~ÝZ ä Ýæ*Å^Ý~@´*~EA ŠÝÝA *ŽÝA~XŽÝY@ ÝA à¼A^ŶXàæXá³æZAå*Ý ä ~A*àAXàæ~à´áYV*ÝYAÝV^ææZ~A WŶŸà^ŶÁæ*Ý^Ŷ~*ÅVæY&æXà ä ÝÅ*V\Ý~AWŶ`à bAYà^¼Ŷ@^*ŽÝ^AYŶ*V³~£

7M LHKKHNMR 4HMD 3 NMSGR +MCDC 9DOSD LADQ Žfl° ∤fl∤Ž) TR\$N L DQ 9@KDR	/MSDQRDF L DMS 9@KDR	4D\$ 9@KDR	+@QMHMFR EQN L HMUDRSDDR	+@QMHMFR "KNRR ADENQD HMSDQDRS @MC HMBN L.D S@WDR"
Ñ'V*ESà''ÝY	~ \$ *{#!	~ { ***	~ \$~!žŽ	· !ł	žž%
ØaæaAØa''	Ł*#flŁ	Ž# %	ł ⁴fl\$fl	[Ł\$"
ÞŠŠN	ł *#fl\$	Ł%	ł ` #ł#	[ł!
T@W@´V^	Ł*łŁ#	Ł	َłŁ\$	łž	ž#"
Tà*V´A^Ý&à^*VW´ÝA~ÝZäÝæ*~	ŁŽ*%flŁ	""#	Łž*!"\$	#"	Ł ŁŁŽ"
P*ŽÝ^	\$	[\$	[″ار
SÝXàæXa´aæZAÓ*Ý ä ~AVæYAN´a ä aæV*aàæ~	[‴"# _〔	″""# _、	[″Łflžͺ
Tà*V′	ĽŽ*%fl%	Ĭ.	ั ŁŽ ~%fl%	~ #"	ĽflŽfl
4HMD 3 NMSGR +MCDC 9DOSD L ADQ Žfl* tfltt					
Ñ'V*ESà''ÝY					

	: GQDD 3 NM\$GR +MCDC 9DO\$D L ADQ ŽfI*			4HMD 3 NMSGR +MCDO 9 DOSD L ADQ ŽfI*		
7M LHKKHNMR	łflłŽ		łflłł	łflłŽ		łflłł
ĺ*Ý ä ~kæà*kV´´àXV*ÝYk*àk~ÝZ ä Ýæ*~Ï						
SÝ~*^@X*@^aæZAVæYAà*ŽÝ^AXŽV^ZÝ~AĀÕà*ÝAÐËB	ˇ ʹŁ\$ ͺ	Â۸	ÃĐ€BA	ٽ " ا لـر	Â۸	ÃG I BA
Š*àXâEWV~ÝYAXà ä &Ýæ~V*aàæAÝ\&Ýæ~ÝAĀÕà*ÝAÈÈB	⁷ Lžͺ	A	ÃÈ€BA	″Ž#ͺ	A	ÃFGBA
K~~Ý*Aa ä &Va^ ä Ýæ*AXŽV^ZÝ~]	A	~ A	٣žر	A	ÃÈG I BA
Næãa^àæ ä Ýæ*V´A^Ý ä ÝYaV*aàæAXŽV^ZÝ~	%ॄ	A	ÃÈ€BA	7ŁŁ .	A	ÃÈ€BA
Š*^V*ÝZaXAV′*Ý^æV*aãÝ~A^ÝãaÝbA&^àXÝ~~AXà~*~	ኚ"ͺ	A	~ A	ጊ"[A	~ A
O^Væa*ÝAŁa* AaY′aæZAXà~*~	"Łž _l	A	~ A	٦£žر	A	~ A
P*ŽÝ^AXŽV^ZÝ~DAæÝ*]	A	~ A	٦٤ ر	A	ÐA
Tà*V´l^ÝXàæXa´aæZla*Ý ä ~		Â۸	Ã F Î BA	~ ~Lflž_	Â۸	ÃÐ I ËBA

!/ * HRONRHSHNM

"/ 8DUDMTD

TŽÝĄŸà″à bæZÅ*VW'Ý~ÄYa~VZZ^ÝZV*ÝÅà@^Ä^Ýã\@YÅW|Å&^àY@X*ÄŸà^ÄÝVXŽÄàŸÅ*ŽÝÅ^Ý&à^*VW'ÝÅW@~æÝ~~Å~ÝZäÝæ*~ÄŸà^Å*ŽÝÅ*ŽÝÝÅ ä àæ*Ž~ÄVæYÅææ¥Å ä àæ*Ž~ÅÝæYÝYÅŠÝ&*Ý ä WÝ^Å€ËDÅÐËĐ€DAVæYÅÐËÐÐDÅ^Ý~&ÝX*ããÝ′|Ï

4DS 9@KDR AX 6QNCTBS 7M LHKKHNMR.&

: GQDD 3 NMSGR +MCDC 9DOSD L ADQ Žfl tfltž	, K@Sı 8 NKKDC	3 H M H 3 HKK	;99+	:TATK@Q	5 SGDQ	: N \$@K
ŠÝ ä aEŸaæa~ŽÝY	~ "\$	<u> </u>	žŽ	<u> </u>	<u> </u>	ŭ ŁŁŁ
Œà*E^à´´ÝYA~ŽÝÝ*~	žłł	ł"Ž	Ž\$\$]	[Ł*fl#Ž
Łà´YE^à´´ÝYA~ŽÝÝ*~	% Ł"	ŁflŁ	"Ł	[[Ł*fl#\$
ŁàV*ÝYA~ŽÝÝ*~	\$%Ž	Ł"ž	ŽŁł	[[Łž"%
T@W@'V^A&^àY@X*~]	[ŁŽ	ŽŁfl	[ŽłŽ
K"AP*ŽÝ^ ^{AÁVB}	ž!fl	Ł	łŁ	ž	Ł	ž##
: N \$@K	~ ł *#ž%	Ŭ !∤%	~ \$Ž\$	Ŭ ŽŁž	Ľ	~ ž `žŽŁ

^{ÅVB}ÅŁàæ~a~*~Å&^aäV^a′IÅàŸÄ~V´Ý~ÄàŸÅ^VÞÄäV^{*}YÓV′~ÅVæYÅXàâÝÄäVâæZÄWIE&^àY@X*~É

7M LHXHNMR.	9DO\$DLADQŽfl* łflłŽ	* DBD L ADQ ŽŁ* ł fl ł ł	
SVbAäV*Ý⁄%V′~	ٽ \$!fl	ÂA ÈDË Î	ÌÍΑ
ŠÝ ä aEŸaæa~ŽÝYA&^àY@X*~	%Žž	A Í È	ÈÈA
Ñaæa~ŽÝYA&^àY@X*~	ž##	A €Î	ÎÍΑ
Š@&&´aY~AVæYA~@æY^ Aa*Ýä~	žŽ	A	GÐA
Tà*V′	· ł*Žflž	ÂA ĐD€G	βÎΑ

Ł@^^Ýæ*AVXå@a~a*aàæAXà~*~AŸà^AÒÍÑ PAaæãÝæ*à^aÝ~A b Ý^ÝAÝA*a a V*ÝYA*àAÝ\XÝÝYA*ŽÝAVWàãÝAæãÝæ*à^|AãV'@Ý~AW|AÂÈÉ€AWa'aàæAVæYAÂÈÉÐA Wa'aàæA V*A ŠÝ&*Ý ä WÝ^A €ËDA ĐËĐĐDA ^Ý~&ÝX*aãÝ' |ÉA K~A VA ^Ý~@'*A à¾A *ŽÝA 'aå@aYV*aàæA à¾A ÒÓÑ PA aæãÝæ*à^aý~DAXà~*Aà¾A~V'Ý~AYÝX^ÝV~ÝAVæYAÝV^ææZ~AWÝŸà^ÝAæ**Ý^Ý~*AVæYAæXà ä ÝA*V\Ý~AææX^ÝV~ÝAW|A€€A ä a'aàæAVæYAÝV^ææZ~AWÝŸà^ÝAæ**Ý^Ý~*AVæYAæXà ä ÝA*V\Ý~AææX^ÝV~ÝAW|A€€A ä a'aàæAVæYAÁPGA ä a'aæA\Pà^A*ŽÝA*ŽÝAYÁ ä àæ*Ž~AVæYAææXŶ¥V~ÝYAW|AÂÉDA Ö a'aàæAVæYAÂÍA ä a'aàæAVæYA*ã¥YAŶ*aãY'|ÉAŁà~*Aà¾A~VÝ~A¥VX^ÝV~ÝYAVæYAææZ^AWÝŶA*ŽAÝÁ*Ž^ÝA*Ž^ÝA¥Z^ÝA*Ž^ÝÁVæYAææXÀ ä ÝA*V\Ý~AææX^ÝV~ÝYAW|AÂÉA ä a'aàæAVæYAÂÍA ä a'aàæAVæYAÂÍA ä a'a'aàæAÑà^A*ŽÝA*Ž^ÝÁVæYAææ¥Á ä àæ*Ž~AÝæYÝYAŠÝ&*Ý ä WÝ^A€ËDAĐËĐĐDA^Ý~&ÝX*aãÝ'|DAV~AVA^Ý~@'*Aå¾Aå@a@aYV*aàæAà¾AÔÓÑ PAæãÝæ*à^aý~É

%/ /MS@MFHAKD 'RRDSR @MC - NNCVHKK

 $\hat{\mathbb{Q}} \mathbb{E}^* \mathbb{E}^$

; RDETK) @QQXHMF 7M LHKKHNMR 2HUDR 'LNTMS

KÂA FÈ

KÂAäÈÈDNÐ < ‰‰ K ÂA ä ‰€AIĐĐ

Łfl/ 6DMRHNMR @MC 5SGDQ (DMDEHSR

TŽÝAŸà´´à bæZA*VW´ÝA^ÝŸ´ÝX*~A*ŽÝAXà ä &àæÝæ*~AàŸAæÝ*A&Ý^aàYaXAWÝæÝŸa*AXà~*AĀæXà ä ÝBAŸà^A*ŽÝA*Ž^ÝYA ä àæ*Ž~AÝæYÝYAŠÝ&*Ý ä WÝ^A €ËDAĐËĐ€DAVæYAĐËĐĐÏ

	6 DMRHNM (DMDEHSR			58GDQ (DMD	EHSR
7M LHKKHNMR	łflłŽ		łflłł	łflłŽ		łflłł
ŠÝ^ãaXÝAXà~*	~ %	ÂA	ÈÈA ~	Ł	ÂA	ÐA
ĺæ*Ý^Ý~*AXà~*	! "	A	FËA	Ł#	A	È€A
N\&ÝX*ÝYA^Ý*@^æAàæA&´VæAV~~Ý*~	″\$ ł	A	ÃÍÎBA	٦٤! (A	ÃĐ€BA
Käà^*a{V*aàæAàŸA&^aà^A~Ý^ãaXÝAXà~*AÃX^ÝYa*B	ž	A	- A	<i>ال</i> ا د	A	ÃHBA
Käà^*a{V*aàæAàŸAVX*@V^aV´AæÝ*A´à~~AÃZVaæB	ž	A	ÈÍA	L\$ 〔	A	ÃÈ€BA
ÕÝ*A&Ý^aàYaXAWÝæÝÏa*AaæXàäÝDAÝ\X´@YaæZAWÝ´àb	″Łflͺ	A	ÃĐËBA	<u>"</u> الـر	A	ÃĐ I BA
Ø@´*aÝ ä&´à Ý^A&´Væ~	łfl	A	ÈÍA	[A	~ A
ÕÝ*A&Ý^aàYaXAWÝæÝŸa*AXà~*AĀaæXà ä ÝB	- Łfl	Â۸	ÃÐBA ~	آالار	ÂA	ÃĐ I BA

TŽÝÁŸà ´´à baæZA*VW´ÝÁ^ÝŸÝX*~A*ŽÝÁXà ä &àæÝæ*~AàŸÁæÝ*A&Ý^aàYaXAWÝæÝŸa*AXà~*ĀĀæXà ä ÝBÁŸà^A*ŽÝÁææÝÁ ä àæ*Ž~ÁÝæYÝYÁŠÝ&*Ý ä WÝ^A €ËJÁÐËЀDÁVæYÁÐËÐÐÏ

	6 DMRHNM (DMDEHSR			58GDQ (DMD	EHSR
7M LHKKHNMR	łflłŽ		łflłł	łflłŽ		łflłł
ŠÝ^ãaXÝAXà~*	~ ∤!	Â۸	€€A ~	ž	ÂA	HA
ĺæ*Ý∧Ý~*AXà~*	Ł""	A	ÈÈÍA	!Ł	A	€IA
N\&ÝX*ÝY&^Ý*@^æAàæ&&´Væ&V~~Ý*~	″łž"ͺ	A	ÃÐH I BA	۳ź!ٍ	A	ÃH Í BA
Käà^*a{V*aàæAàŸA&^aà^A~Ý^ãaXÝAXà~*AĀX^ÝYa*B	ŁŽ	A	ÈA	Ľ\$ ͺ	A	ÃÈ Î BA
Käà^*a{V*aàæAàŸAVX*@V^aV´AæÝ*A´à~~AĀZVaæB	%	A	GFA	″!žͺ	A	ÀÎBA
ÕÝ*A&Ý^aàYaXAWÝæÝŸa*AaæXà ä ÝDAÝ\X´@YaæZAWÝ´àb	″ŽŽ,	A	ÃHÈBA	‴* _\	A	ÃÍ€BA
Ø@´*aÝ ä&´à Ý^¼&´Væ~	"∤	A	GHA	[A	~ A
ŠÝ**´Ý ä Ýæ*DA*Ý^ ä aæV*aàæAVæYAX@^*Va´ ä Ýæ*A´à~~Ý~A ^{ĀVB}	[A	FA	[A	ÐA
ŐÝ*A&Ý^aàYaXAWÝæÝŸa*AXà~*AĀaæXàäÝB	ž ł%	Â۸	ÃÈBA ~	‴* _{	ÂA	à Í ÈBA

ĀVBAM®^sæZA*ŽÝAœsæÝA ä àæ'Ž~AÝæYÝYAŠÝ&*Ý ä ₩Ý^A€ËDADDA&Ýæ~aàæAVæYAà*ŽÝ^A&à~*^Ý*a^Ý ä Ýæ*AWÝæÝis*~Aæx®^^ÝYA~&ÝXzV´A*Ý^ ä ævV*aàæAXŽV^ZÝ~A àŸAV&&^à\: ä V*Ŷ´|AÂHA ä a´′aàæAY®YA*àAb à^âŸà^XÝA^Ŷ~*®X*®^sæZÉ

+ L OKNXDQ) NMSQHATSHNMR

M@^aæZA*ŽÝAÝa^*AæaæÝA ä àæ*Ž~AàŸAÐËĐ€DAÞÉAŠÉAŠ*ÝÝ′A ä VYÝAXV~ŽA&V | ä Ýæ*~AàŸAÂHÈA ä a′′aàæA*àA*ŽÝAŠ*ÝÝ′b à^âÝ^~AQÝæ~aàæAT^@~*A VæYA€A ä a′′aàæ

	łfl	łflłŽ		łfl	łł
- Q@MS * DS@HKR	9G@QDR ^{~0} .	, @HQ <@K TD ^{~A} .		9G@QDR ^{~®} .	, @HQ <@K TD [™] A.
SÝ~*^aX*ÝYAŠ*àXâAÞæa*~	Ł*ł\$Ł*flłfl	~ ∤%/%fl	A	ÈDĐĐGD Í ĐËA	ÂA ĐFÉĐHA
QÝ^Ÿà^ä VæXÝÅKbV^Y~Å ^{åXB}					
AAAATŠS	Ł\$!~Łłfl	Ŭ Ž#∕žŁ	A	ЀHDGÐËA	ÂA ĐÍÉFÈA
AAAASPŁNA ^{ÁYB}	Ž!#~fl∤fl	Ŭ ł%∕ Ž !	A	FËÍDÍIËA	ÂA Đ€ÉGÎA
QÝ^Ÿà^ ä VæXÝELV~ÝY&SÝ~*^®X*ÝY&Š*àXâ&Þæ®*~	Ī	Ĭ ľ	A	Í€DÎGÈA	ÂA Đ€ÉË∣A

^{Åvg}ATŽÝA~ŽV^ÝAV ä à@æ*~A~Žàbækæk*Ža~A*VW`ÝAYàkæà*A^Ý'ÝX*AVækVYá@~* ä Ýæ*AĬ'à^AÝ~*a ä V*ÝYAĬ'à^ĨÝa*@^Ý~É ^{Ång}ASÝ&^Ý~Ýæ*~A*ŽÝA&Ý^A~ŽV^ÝAbÝaZŽ*ÝYAVāÝ^VZÝAĬ'à^AV′′AZ^Væ*~AY@^æZA*ŽÝA&Ý^aàYÉ ^{Åxg}ATŽÝkæ@ ä WÝ^AàĬ⁄A&Ý^Ĩà^ ä VæXÝAVbV^Y~A~Žàbæh^Ý&^Ý~Ýæ*~A*ŽÝA*V^ZÝ*A~ŽV^ÝAZ^Væ*AàĬ⁄A*ŽÝAVbV^YÉ ^{ÅYg}AKÅ&à^*aàækàĬ⁄ASPŁNAVbV^Y~AZ^Væ*ÝYAsækÐËЀAVæYkÐĔÐÐÁÝ^Ýkæà*AP

ZÝÁJOb V^ÝAZ^Væ*ÝYAaæ

TŽÝA Ł ŽªÝÝA N\ÝX@*aãÝA PŸaXÝ^A b V~AZ^Væ*ÝYA QŠÞ~A*ŽV*A ãÝ~*A b a*ŽA*ŽÝAŸà ´´à b æZDAÝå@V´´ | A b ÝaZŽ*ÝYDA &Ý^\å^ä VæXÝA ä Ý*^aX~ÏA ĀsBA
NLÔTMKA ä V^ZaæA Ý\&Væ~aàæDA ĀsaBA Z^ÝÝæŽà@~ÝA ZV~A Ý ä a~~aàæ~A aæ*Ýæ~a* | A ^ÝY@X*aàæDA ĀsaBA V~~Ý*A &à^\Ÿà aà à&*a ä a {V*aàæDA ĀsāBA
'ÝãÝ^VZÝA ä Ý*^aX~A VæYA ĀāBA Xà^&à^V*ÝA^Ý 'V*aãÝA ãV @V*aàæÉAA P*ŽÝ^A ä Ý ä WÝ^~A àŸA*ŽÝA Ý \ÝX@*aãÝA ÝVYÝ~Ža&A*ÝV ä A b Ý^ÝAZ^Væ*ÝYA
QŠÞ~A*ŽV*AãÝ~*A b a*ŽA&Ý^Ÿà^ ä VæXÝAX^a*Ý^avA^Ý'V*ÝYA*àÏAĀsBA àæA*a ä YAVæYAàæAW@YZÝ*AXà ä &´Ý*aàæAàŸA L SÐAĀ€Ë Ä AàŸA*ŽÝAZ^Væ*BDAĀsaBA
NLÔTMKA ä V^ZaæAÝ\&Væ~aàæAÅĒË Ä AàŸA*ŽÝAZ^Væ*BAVæYĀāæBAZ^ÝÝæŽà@~ÝAZV~AÝ ä a~~aàæ~Asæ*Ýæ~a* | A^ÝY@X*aàæAĀ€Ë Ä AàŸA*ŽÝAZ^Væ*BÉ

Ñà^A*ŽÝAQŠÞAVbV^Y~DAVA&V|Aà@*Aa~AVXŽaÝãVW´YAV*A*Ž^Ý~Žà´YAÅGËÄAà¼*V^ZÝ*BDA*V^ZÝ*AÅÈËËÄAà¾A*V^ZÝ*BAà^A äV\aä@a*Aā¼A*V^ZÝ*BA&ÝA*Ž^ÝAÄÈËËÄAà¾A*V^ZÝ*BA&ÝA*ŽYÁ*ŽAÝãÝãÝãÝãÝãÝãÝãÝãÝãÝã°AæYA Väà@æ*~Aba´′AWÝAæ*Ý^&à´V*ÝYAWÝ*bÝÝæA*ŽÝA*ŽAÝ~Žà´YDA*V^ZÝ*AVæYAäV\aä@äAV`äà@æ*~É

上抄 /MBNLD:@WDR

: @W OQNUHRHNM

Ñà^¼*ŽÝÅææÝÅ ä àæ*Ž~ÅÝæYÝYÅŠÝ&*Ý ä WÝ^Á€ËÐÐÐĒÐÐDA*ŽÝÅŁ à ä &Væ |Å^ÝXà^YÝYÅVÅ*V\Å&^àãa~aàæÅàŸÅÂĐ€ I Å ä a´´aàæÅVæYÅ ÂHÍFÄ ä a´´aàæÐA^Ý~&ÝX*aãÝ |ÉÅTŽÝÅ*V\Å&^àãa~aàæ~ÅŸà^¼*ŽÝŽ^~*ÅææÝÅ ä àæ*Ž~ÅàŸÅÐËЀÅVæYÅÐËÐÐÅ ÞÝ^ÝÁWV~ÝYÅàæÅVæÅÝ~*ª ä V*ÝYÅ Vææ®V´ÁÝŸÝX*aãÝÅ^V*ÝDÅÞŽaXŽÅ^Ý宪YÝ~Å ä VæVZÝ ä Ýæ*Å*àÅ ä VâÝÅa*~ÄWÝ~*å ä V*ÝÅàŸÅVææ®V´Å&^Ý*V\ÅææXà ä ÝAà^Å´à~~ÅVæYÅYæ~X^Ý*ÝÅ a°Ý ä ~Å^ÝXàZæa{ÝYÅY®^æZÅ*ŽÝÅ&Ý^åàYÐAÿÄV&&´aXVWÝÉ

TŽÝA*V\A&^àãa~aàæhŸà^A*ŽÝhææ¥Á ä àæ*Ž~hÝæYÝYAŠÝ&*Ý ä WÝ^h€ËDAÐËЀDhæX´@YÝ~hVhWÝæÝŸa*hàŸh€Èh ä a´´aàæhŶ´V*ÝYA*àh*ŽÝhŸa*bàŸh *ŽÝhÐËÐÐhŸÝYÝ^V′hæXà ä ÝA*V\A^Ý*@^æDAV~h b Ý´´hV~hVæhVYYa*aàæV´hWÝæÝÿa*hàŸhÂÈÐh ä a´´aàæh^Ý`V*ÝYA*àh*ŽÝhVYå@~* ä Ýæ*hàŸh&^aà^h | ÝV^~∳h ŸÝYÝ^V′hæXà ä ÝA*V\Ý-É

TŽÝÅ*V\A&^àãa~aàæÅ'à^Å*ŽÝÁææÝÅ ä àæ*Ž~ÅÝæYÝYÅŠÝ&*Ý ä WÝ^A€ËDÅÐËÐÐDNæX′@YÝ~ÅVæÅÝ\&Ýæ~ÝÅàĬÅÂÈÎÅ ä a´íaàæÅ^Ý′V*ÝYÅ*àÅ*ŽÝÅÑáaæZÅ
àĬÅ*ŽÝÅÐËÐÈÅŸÝYÝ^V'ÁæXÀ ä ÝÅ*V\Å^Ý*@^æDÅ V~Å b Ý′′Å V~Å VæÅ VYYå*aàæV′Ä Ý\&Ýæ~ÝÅ àĬÅÂȀŠä a´íaàæÅ^Ý′V*ÝYÅ*àÅ*ŽÝÅ ÔÝ®X*aàæÅæÅ*ŽÝÄ
QÝææ~|´ãVæaVAXà^&à^V*ÝÅæ¥Ý*AæXà ä ÝÅ*V\Å^V*ÝÅbŽaX޼~ÄWÝææZÅ&ŽV~ÝYÅæÅåãÝ^Åææ¥Å]ÝV^~ÅWÝZææææZkæÅÐËЀÉ

TŽ^à@ZŽà@*å*ŽÝĄ | ÝVºŊĀ ä VæVZÝ ä Ýæ*Å^ÝZ@´V^´ | Å@&YV*Ý~Å\à^ÝXV~*ÝYÅVææ@V´A&^Ý*V\Å^Ý~@´*~Å\à^¾*ŽÝĀāV^åà@~AXà@æ*^şÝ~AaæĀ b ŽaXŽĀ b ÝAà&Ý^V*ÝAWV~ÝYÅ\æ#ĀZÝ~AaæĀ b ŽaXŽĀ b ÝAà&Ý^V*ÝAWV~ÝYÅ\æ#ĀZÝAāVA³à@ZÝ~AaæĀ\ŸVX*à^¬A~@XŽĀV~Ā&^aXÝ~DĀ~Ža& ä Ýæ*~DĀ&^àY@X*Ā ä a\DĀ&ÝV**àæZĀ&Ý^Ŷå^ā VæXÝĀVæYĀXà~*Ā Ý~*ā ä V*Ý~ĒĀTāĀ*ŽÝĀÝ*Ýæ*Ā*ŽV*ĀVX*@V´ĀĐĒĐ€Ā&^Ý*V\Ā^Ŷ~@´*~ĄĬà^ĀÞĒŠĒĀVæYĀĬÀA`ÁZæĀææXà ä ÝĀà^Ā´à~~ĀāV^ | ĀĬ^à ä ĀŶ~*ā ä V*Ý~ĀV&&`âÝYĀ
ŽÝ^ÝææDĀ*ŽÝĀVX*@V´Ā*V\Ā&^àãa~aàæĀà^ĀWÝæÝŶ³*Ā^ÝXàZæð{ÝYĀaæĀÐĒĐ€ĀXà@`YĀWŶA*ZÝĀVX*@V`Ā*V\Ā&^àãa~aàæĀ\ĀWÝæÝÅ*ŽÝĀææÝĀ ä A*ŽYĀŸĀ*V\Ā&^àāā~*āæĀŶā¥ZÝĀVX*@YĀ*VĀÆĎĒĐ€Ē

ĺœΑ ØV^XŽA ĐËĐĐĐA *ŽÝA Łà ä &Væ | Å VæYA *ŽÝA K^âVæ~V~A NXàæà ä aXA MÝãÝ à& ä Ýæ*Å Łà ä ä a~~aàæA Ýæ*Ý^ÝYA aæ*àA *ŽÝA SÝX | X′aæZA TV\A
Ł^ÝY₂*ÅĺœXÝæ*ãÝAKZ^ÝÝ ä Ýæ*ĎA DŽÝ^ÝW | Å*ŽÝA Łà ä &Væ | Å ä V | ÅÝV/væA~*V*ÝAæXà ä ÝA*V\AX^ÝY₂*~AææA VæAV ä à @æ*AÝå@V′A*àA€ËA&Ý^XÝæ*A
àŸA*ŽÝAXà~*AàŸA bV~*ÝA^ÝY@X*aàæĎA^Ý@~ÝĎAà^A^ÝX | X′aæZAÝå@a& ä Ýæ*ĎA~@WáYX*A*àA ä ÝÝ*æZA*ŽÝA^Ýå@a^Ý ä Ýæ*~AàŸA*ŽÝAK^âVæ~V~AŁàYÝA
KææÉA ŠÝX*aàæA ÐHEGÈEGËHDA Ÿà^A LSÐA bŽaXŽA a~A X@^^Ýæ*′ | Å @æYÝ^A Xàæ~*^@X*aàæA æÝV^A P~XÝà VĎA K^âVæ~V~ÉA MàX@ ä Ýæ*V*aàæA
~@&&à^*aæZA*ŽÝAŁà ä &Væ | Å~AæãÝ~* ä Ýæ*AæAå@V´aŸ | aæZAÝå@a& ä Ýæ*A ä @~*AWÝA~@W ä a**ÝYAV~A&V^*AàŸAVæAV&& ′aXV*aàæAŶà^AXÝ^*aåæA

				DOSD L		+MCDC Žfl	
"* NKK@QR HM L HKKHNMR" DWBDOS ODQ RG@QD @ L NTMSR.	łflłŽ		łflłł	łf	ΙłŽ		łflłł
$NV^2 a a Z - AV^{**} a W Y A^* a A b a a^* Y Y A S^* V^* Y - A S^* Y Y A a A^* a^* A^* a X a Z a Y Y A B A^* a X a Z a A B A^* a X a A B A^* a A B$							
LV~aX	Ŭ ∤ %%	Â۸	FÎËA	J	% #!	ÂA	ÐD€GËA
ĺæ*Ý^Ý~*ÅÝ\&Ýæ~ÝAà&AŠÝæ;à^AŁàæãÝ^*aW´ÝAÕà*Ý~DAæÝ*AàŸA*V\	Ž	A	€A		Łfl	A	ÈËA
Ma´@*ÝY	~ Žflł	Â۸	F΀A	Ü	%\$!	ÂA	ÐD€HËA
ÚÝaZŽ*ÝYEVãÝ^VZÝA~ŽV^Ý~Aà@*~*VæYaæZAĀaæA*Žà@~VæY~BÏ							
LV~aX	łł Ž ĽfI%	A	Đ€IDËÎFA	łł	! ` ŽŁŁ	A E	OGÈDÍFÍA
NŸŶX*AàŸAŠŶæĵà^AŁàæãŶ^*aW´ŶAÕà*Ŷ~	ł " ˇŁ %ž	A	ÐHDÈÎFA	ł	" ` Ł%ž	A	ÐHDÈÎFA
NŸŸYX*\àĬ\~*àXâ\à&*aàæ~D\^Ý~*^aX*ÝY\~*àXâ\@æa*~\VæY\&Ý^Ÿà^ä VæXÝ\ VbV^Y~	Ž~#"#	A	ÐDÎIHA		Ž~!#!	A	€DGÐIA
Ma′@*ÝY	∤!ގfl#fl	A	ÐHHÐÐHFA	∤!	! fl\$fl	A E	DÍÈDGHĨA
NV^ææZ~A&Ý^A~ŽV^ÝAV**^aW@*VW´ÝA*àAÞæa*ÝYAŠ*V*Ý~AŠ*ÝÝ´AŁà^&à^V*aàæA ~*àXâŽà´YÝ^~Ï							
LV~aX	Ŭ Ł∕Žž	Â۸	ÐÉËTA	J	ž/ŽŽ	ÂA	ÎÉ€€A
Ma´@*ÝY	Ŭ Ł∕łfl	Â۸	ÈÉ Í GA	J	Ž/\$"	Â۸	ÍĖ€ÍA

N\X´@YÝYAŸ^à ä A*ŽÝAXà ä &@*V*aàæAàŸAYa´@*ÝYAÝV^ææZ~A&Ý^AXà ä ä àæA~ŽV^ÝAY@ÝA*àA*ŽÝa^AVæ*aEYa´@*aāÝAÝŸŸÝX*A♭Ý^ÝAËÉ€A ä a´´aàæAVæYA ËÉFA ä a´´aàæAà@*~*VæYaæZA~ÝX@^a*aÝ~AZ^Væ*ÝYA@æYÝ^A*ŽÝA P ä æaW@~AQ`VæAŸà^A*ŽÝA*Ž^YA*Ž^YAVæYAææ¥ÝA ä àæ*Ž~AÝæYÝYAB TŽÝA Ÿà´´à baæZA ~@ ä ä V^a{Ý~A *ŽÝA ŸVa^A ãV´@ÝA V ä à @æ*~A aæX´@YÝYA aæA à @^A ŁàæYÝæ~ÝYA Łàæ~à´aYV*ÝYA LV′VæXÝA ŠŽÝÝ*~A V~A àŸA ŠÝ&*Ý ä WÝ∕A€ËDAĐËĐ€AVæYAMÝXÝ ä WÝ∕A€ÈDAĐËĐĐÏ

(@K@MBD 9GDD\$ 2NB@SHNM "HM L HKKHNMR	9DOSD L ADQ Žfl° łflłŽ	* DBD L ADQ ŽŁ* łflłł
* DRHFM@SDC @R . DCFHMF /MRSQT L DMSR		
KXXà@æ*~ŀ^ÝXÝaãVW´Ý	Žfl	ÂA ĐËA
KXXà@æ*~#&V VWÝ	ž%	A HÍA
ĺæãÝ~*äÝæ*~AVæYA′àæZE*Ý^äA^ÝXÝaãVW′Ý~	Ł	A ~ A
P*ŽÝ^A´àæZE*Ý^ ä A´aVWa´a*aÝ~	ž	A ÈGA
4NS * DRHFM@SDC @R . DCFHMF /MRSQT L DMSR		
KXXà@æ*~ŀ^ÝXÝaãVW´Ý	ł	A ȀA
ÓæãÝ~* ä Ýæ*~AVæYA´àæZE*Ý^ ä A^ÝXÝaãVW´Ý~]	A ÈA

TŽÝA*VW´ÝAWÝ´à b A~@ ä ä V^₃{Ý~A*ŽÝAÝÑÝX*AàŸAŽÝYZÝAVXXà@æ*ãæZAàæAKXX@ ä @´V*ÝYA P*ŽÝ^AŁà ä &^ÝŽÝæ~ãáÝAÓæXà ä ÝAĀKPŁÓBAVæYA V ä à @æ*~A^ÝX´V~~₃Ĭ°YYAĬŶà ä AKPŁÓkæ*àAÝV^œæZ~AŸà^A*ŽÝA*Ž^ÝYÁVæYkææZAÁŸAÝæYÝYAŠÝ&*Ý ä WÝ∕A€ËDAÐËЀDAVæYAÐËÐÐĪ

	- @HM "2NRR, NM *	DQHU@SHUDR HM '5)/		' L NTMS NE 8 DBNFMHYDC	
%M L HKKH NMR .	: GQDD 3 NMSGR +MCDC 9DOSD L ADQ ŽfI łflłŽ	: GQDD 3 NMSGR +MCDC 9 DOSD L ADQ ŽfI* ∤fI∤∤	2NB@SHNM NE 8 DBK@RRHEHB@SHNM EQN L '5)/AAVB	: GQDD 3 NMSGR +MCDC 9 DOSD L ADQ ŽfI* łflłŽ	: GQDD 3 NMSGR +MCDC 9DOSD L ADQ ŽfI* łflłł
ŠVÝ~A~bV&~	Ľfl	ÂA ÎA	ÕÝ*A~V´Ý~	ž	ÂA ÎA
ŁàääàYa* A &@^XŽV~ÝA~bV&~	Žł	A ĐA	Łà~*AàŸA~VÝ~A ^{ÁWB}	~Žł.	A FHA
Ñà^ÝaZæAÝ\XŽVæZÝA Ÿà^bV^Y~	Ł%	A È€ A	Łà~*AàŸA~VÝ~	″!,	A ~ A

^{Å/V9}λΤŽÝĄÝVΛœæZ~Aa ä &VX*AàŸĄ à@ΛĄŽÝYZæZAææ~*^@ ä Ýæ*~A~@W~*Væ*aV´´ | AàŸŶ~Ý*~A*ŽÝĄÝVΛœæZ~Aa ä &VX*AàŸĄ*ŽÝĄΛÝ ΄V*ÝYĄŽÝYZÝYĄa*Ý ä ~A^Ý~@ '*æZAææAa ä ä V*Ý^3V´Aæ¥ŶŶŶŶŶ*aāÝæÝ~~É

^{ÁNG}ÁŁÀ~*~ÁŸÀ^AXÀÄÄÄAYAÄÄÄÄYA*|Á&@^XŽV~ÝÁ~bV&~ÁV^ÝÁ^ÝXÀZæ3{ÝYkæAXÀ~*kÀŸA~V´Ý~ÁV~A&^ÀY@X*~ÁV^ÝÁ~À´YÉ

	- @HM "2NRR NM * [DQHU@SHUDR HM '5)/			- @HM "2NRR C HM /MBN L D
7M LHKKHNMR	4HMD 3 NMSGR +MCDC 9DOSD L ADQ ŽfI łfIłŽ	4HMD 3 NMSGR +MCDC 9 DOSD L ADQ ŽfI [*] ∤fI∤∤	2NB@SHNM NE 8DBK@RRHEHB@SHNM EQN L '5)/A ^{AVB}	4HMD 3 NMSGR +MCDC 9 DOSD L ADQ ŽfI ł fił Ž	4HMD 3 NMSGR +MCDC 9 DOSD L ADQ ŽfI łflłł
ŠVÝ~A~bV&~	ŭ Łfl	ÂA €€A	ÕÝ*A~V´Ý~	~ LŽ	ÂA ÃĐÎBA
ŁàääàYî* A &@^XŽV~ÝA~bV&~	łŽ	A ÈIA	Łà~*AàŸA~V´Ý~A ^{ÂWB}	″## _.	, A Í Î A
Ñà^ÝaZæAÝ\XŽVæZÝA Ÿà^bV^Y~	Łž	A ĐĐA	Łà~*AàŸA~V´Ý~	″ ł,	. A €ËA

^{ÄV®}ATŽÝAÝV^œæZ~Aa ä &VX*AàŸAå@^AŽÝYZæZAæ~*^@ ä Ýæ*~A~@W~*Væ*aV´´|AàŸ?~Ý*~A*ŽÝAÝV^œæZ~Aa ä &VX*AàŸA*ŽÝA^Ý`V*ÝYAŽÝYZÝYAa*Ý ä ~A^Ý~@**æZAæAa ä ä V*Ý^°\$V/ææZY~Aa ä &VX*AàŸA*ŽÝA^Ý`V*ÝYAŽÝYZÝYAa*Ý ä ~A^Ý~@**æZAæAa ä ä V*Ý^°\$V/ææZY?ÄYX*aāÝæÝ?~É

K*AX@^Ýæ*AXàæ*^VX*AãV'@Ý~DAÂĐÈA ä a '`aàæAX@^Ýæ*' | AaæAKPŁÓAV~AàŸAŠÝ&*Ý ä WÝ^A€ËDAĐËĐ€DA ba''AWÝA^ÝXàZæa{ÝYAV~AVæAaæX^ÝV~ÝAæA Xà~*A

^{ÁNG}ÁŁÀ~*~ÁŸÁ^ÁXÀÄÄÄÀYÁ*|Á&@^XŽV~ÝÁ~bV&~ÁV^ÝÁ^ÝXÁZæð{ÝYÁæÁXÀ~*ÁÁŸÁ~V´Ý~ÁV~Á&^ÀY@X*~ÁV^ÝÁ~À´YÉ

^{&#}x27;QJ@MR@R * DUDKNO L DMS , HM@MBD 'TSGNQHSX +MUHQNM L DMS@K/L OQNUD L DMS 8 DUDMTD (NMCR '9DQHDR IfII)

'QJ@MR@R * DUDKNO L DMS, HM@MBD' TSGNQHSX + MUHQNM L DMS@K / L OQNUD L DMS 8 DUDMTD (NMCR " 9 DQHDR +ffl+ t

PæÁŠÝ&*Ý ä WÝ^Á HDÁÐĒÐÐDÁ ÞÉÁŠÉÁŠ*ÝÝ ÁX à~ÝYÁ àæÁ VæÁ àŸÍÝ^æZÁXàæ~a~*æZÁ àŸÁ VæÁ VZZ^ÝZV*ÝÁ &^ææXá&V´Á V ä à @æ*Á àŸÁÐÎËÁ ä ā´íaàæÁ @æ~ÝX@^ÝYÁK^âVæ~V~Á MÝãÝá& ä Ýæ*Á ÑæWæXÝÁK@*Žà^â* | Å Ýæãa^àæ ä Ýæ*V´Ã; a æ &^àãÝ ä Ýæ*Å^¥æ@ÝA WàæY~DÁ ÞŽ3XŽÁ XV^^ | Á VÁ Z^ÝÝæÁ WàæYÁYÝ~aZæV*aàæÉÁTŽÝÁWàæY~DÁ;~~@ÝYÁ*ŽÁà@ZŽÁK^âVæ~V~ÁMÝãÝ´à& ä Ýæ*ÁÑæVæXÝÁK@*Žà^â* | DÁŽVãÝÁVÁXà@&àæÁ^V*ÝÁàŸÁGÉFGËÄÁ VæYÁ XV^^ | Á VÁ ŸæV´Á ä V*@^ş* | Å àŸÁ ÐËGÐĀ ĀÐËGÐĀ KMÑKÁ O^ÝÝæÁ LàæY~BÉÁ ÞÉÁ ŠÉÁ аÝÝ´A ^ÝXÝ;ãÝYÁ æÝ*Á &^àXÝÝÝ~A àŸÁ V&&^à\a ä V*Ý´ | Å€Á ä a´´aàæÁVÝ*V*Á*àÅ*ŽÝÁ@æYÝ^b^a*āæZÁVæYÁ*Ža^YE&V^* | ÅÝ\&Ýæ~Ý-ÉÅTŽÝÁæÝ*Á&^àXÝÝÝ~Á
ÑŶà ä Å*ŽÝÁa~~@VæXÝÁ àŸÁ*ŽÝÁ ÐËGÐĀ KMÑKÁ O^ÝÝæÁ LàæY~Á bÝnÝÁ @~ÝYÁ*àÁ &V^*3V´´ | Å Ŷ@æYÁ bà^âA^Ý′V*ÝYÁ*àÁ LSÐÐÁ X@~ݰÆ*Í | Å @æYÝ^A
Xàæ~*^@X*aàæÁæÝV^AP~XÝà VDÁK^âVæ~V-É

PæAVæYAV^{*}*Ý^AŠÝ&*Ý ä WÝ^AÈDAĐËĐGDA*ŽÝAŁà ä &Væ | A ä V | A^ÝYÝÝ ä A*ŽÝAĐËGĐAKMÑKAO^ÝÝæA LàæY~AV*Aa*~Aà&*aàæDAV*AV® | A*a ä ÝAæAb bŽà ʿÝAà^A\P\^à ä A*a ä ÝA*àA*a ä ÝAæAb&V^**V*A*ŽÝA^ÝYÝ ä &*aàæA&^aXÝ~AĀÝ\&^Ý~~ÝYAæA&Ý^XÝæ*VZÝ~AÀŸA&^aæXa&V´AV ä à@æ*BA′a~*ÝYAWÝ′à bDA &@~AVXX^@ÝYAVæYA@æ&VaYAæ*Y*ŽÝA*DŽÝA*ZÝAÐËGĐAKMÑKAO^ÝÝæA LàæY~DAªÄAVæYDA*ÄDAW@*AÝ\X′@YææZDA*ŽÝAV&&′aXVW´ÝA^ÝYÝ ä &*aàæA YV*ÝDAªŶA^ÝYÝ ä ÝYAY@^aæZA*ŽÝA*bÝ′āÝE ä àæ*ŽA&Ý^aàYAWÝZææææZAàæAŠÝ&*Ý ä WÝ^AÈAàŸAÝVXŽAàŸA*ŽÝA | ÝV^~AææYaXV*ÝYAWÝ′à bÉ

?D@Q	8 DCD L OSHNM 6QHBD
ÐËÐG	È ËĞÉËËA Ä
ÐËÐH	È ËFÉËËÄ Ä
ÐËÐI	È Ë€ÉËËA Ä
ÐËÐÍ	È ËÐÉËËA Ä
ÐËÐÎ	È ËÈÉËËA Ä
ĐË€ËåVæYå*ŽÝ^ÝVŸ*Ý^	È ËËÉËËÄ Ä

Κ*Α νæ | Α*a ä ÝΑ &^aà^A* àa ŠÝ&*Ý ä WÝ^A ÈDA ĐĒĐGDA ÞÉA ŠÉA Š*ÝÝ Ά ä V | Α V / ~ àA ^ ÝYÝY ä A * ŽÝA ĐËGĐA KMÑKA O^ÝÝæA L àæY~DA V*A à@^A à&*aàæDA æA b Žà ʿÝA à^AaæA&V^*DA à^Af^a ä ÝA*àA*a ä ÝDAV*A VA&^aXÝA Ýå@V΄A*āA*ŽÝAZ^ÝV*Ý^A àĬAÈËËA&Ý^XÝæ*A àĬA*ŽÝA&^aæXa&V′A V ä à@æ*A àĬA*ŽÝA VBĒGĐA KMÑKA O^ÝÝæA L àæY~A&′@~AVXX^@ÝYA VæYA @æ&VaYAaæ*Ý^Ý~*DAJÄA Væ | DA à^A*ŽÝA~@ ä A àĬA*ŽÝA&^Ý~Ýæ*A ãV '@ÝA àĬA*ŽÝA^ÝY Ä &&*aàæA&^aXÝA ÅÄA*Ä*ŽÝA ~ @ ä A àĬA*ŽÝA&^Ý~Ýæ*A &Y @ÝA àÆYA XÝA ÅÄA*Ä*ŽÝA PĒGĐA KMÑKA O^ÝÝæA L àæY~A aĬA*ŽÝ | A b Ý^ÝA ÁYA ÁYA ÁYA ŠÝ&*Ý ä WÝ^A ÈDA ĐËĐGDA & @~A aæ*Ý^Ý~*A &V | ä Ýæ*~A Y@ÝA *Ž^à@ZŽA ŠÝ&*Ý ä WÝ^AÈDAĐËĐGDAYa~Xà@æ*ÝYA*àA*ŽÝAYV*ÝAAÏA^ÝYÝ ä &*aàæAàæAVA~Ý ä æVææ@V′AWV~a~AV*Å*ŽÝAV&&′aXVW´ÝA*V\EÝ\Ý ä &*A @æaXa&V′A WàæYA^V*ÝDA&′@~AVXX^@ÝYAVæYA@æ&VaYAæ*ÝAÝ~*DAJÄAVæ|É

IfII 9DMHNQ) NMUDQSHAKD 4NSDR

 $LaZA\,Sa\widetilde{a}\acute{Y}^A\,\check{S}^*\acute{Y}\acute{Y}^\prime A\,\grave{O}\grave{O}\&A\,\ddot{a}\,@\sim^*A\,\ddot{a}\,Vaæ^*VaæA\,VA\,\ddot{Y}a\,\backslash\acute{Y}A\,X\check{Z}V^\prime Z\acute{Y}A\,X\grave{a}\widetilde{a}\acute{Y}^\prime VZ\acute{Y}A\,^\prime V^*a\grave{a}A\,\grave{a}^\dagger A\,V^*A\,\acute{Y}V\sim^*A$

9TQOKTR <+ (' @RRDSR

M@^aæZA*ŽÝAŸà@^*ŽAå@V^*Ý^AÐËĐĐDA ÞÉAŠÉAŠ*ÝÝ′AVæYA*ŽÝA Þæ³*ÝYAŠ*ÝY′ Þà^âÝ^~AĀÞŠ Ú BAVZ^ÝÝY*àA@*a´a{ÝA*ŽÝAàãÝ^Ŷ@æYÝYA PQNLA &′Væ~A*àA~@&&à^*A*ŽÝA WÝæÝÿa*~A &^àāaYÝYA*àA VX*aãÝA ^Ý&^ÝYA Ý ä & ´à | ÝÝ~ÉA LÝZææææZA ÔVæ@V^|A ÈDA ĐËĐ€DA *Ža~A VZ^ÝÝ ä Ýæ*A V″àb~A*ŽÝA~@^& ′@~AUNLKAV~~Ý*~AĀ*ŽÝA~@^& ′@~AU ä à@æ*BA*àA&V | AŸà^M ÝZV′′ | A&Ý^ ä a~aW ÝA WÝæÝÿa*~A @æYY^A ŠÝX*aàæA GËÈĀXBĀ Î BA àŸA *ŽÝA ὑæ*Ý^æV'A SÝãYæ@ÝA ŁàYÝA Ýà^A VX*aãYA Ý ä & ´à | ÝÝ~A VæYA ^Ý*a^ÝY~A àŸA DŠ ÚÉA TŽÝA ~@^& ′@~A V ä à@æ*A àŸA ÂG Î GA ä a´′aàæA bV~A YÝ*Ý^ ä aæYYA V~A àŸA MÝXÝ ä WÝ^A €ÈDA ĐËĐĐDA VæYA bV~A *ŽÝA WV ′VæXÝA àŸA UNLKA V~~Ý*~A æA Ý\XÝ~~AàŸAĒ€G Ă ÀàŸA*ŽÝA^Ŷ*a^ÝYAW*A¥ŽV*aàæAV*A*ŽV*A*ä ä YÉA PæAÔVæ@V^|AÈDAĐËĐ€DAVA~@WVXXà@æ*A bV~AX^ÝY*ŶYAVæYAXàæ~a~*ÝYAàŸAVA &^àE^V*VA ~ŽV^Á àŸA Ý\A*aæZ**ÝYAV*a*A¥ÄVA &^àE^V*VA ~ŽVA ÀŸA ŽÝA Ý\a~*aæZA *^@~*ÉA PæA ÑÝW^@V^|A ÈDA ĐËĐ€DA &~@WVXXà@æ*A bV~AX^ÝV*ÝYAVæYAXàæ~a~*ÝYAàŸAVA &^àE^V*VA ~ŽVA À ÀÄ *ŽÝA Ý\a~*aæZA *^@~*ÉA PæA ÑÝW^@V^|A ÈDA ĐĒĐ€DA &~©WVXÀ BËÐA ĐËЀA V~~Ý*A ÃV′@Ý~DA VA æÝ bA æãÃÝ~* ä Ýæ*A

		9DOSD L ADQ Žfl° łflłŽ					
		DUDK Ł	2DUDK ł	2DUDK Ž	LD@ @\$ 4	RTQDC '<	: NS@K
'RRDS) @SDFNQX							
, HWDC /MBN L D							
Łà^&à^V*ÝAWàæY~AEAÞÉŠÉ	A	~ A	A ÈÎI	A A	A A	~ A A	ÈÎI
Łà^&à^V*ÝAWàæY~AEAÕàæEÞÉŠÉ	A	~ A	A GÍ	A A	A A	~ A A	GÍ
ÞÉŠÉAZàãÝ^æäÝæ*AWàæY~	A	~ A	A ÎÍ	A A	A A	~ A A	îí
Øà^*ZVZÝAVæYAV~~Ý*EWVXâÝYA~ÝX@^s*aÝ~	A	~ A	A ÈĐ	A A ~	A A	~ A A	ÈĐ
Tà*V´AŸa∖ÝYAaæXà ä Ý	Â	A ~ A	ÂA €HG	ÂA ~	A Â A	~ A ÂA	€HG
'KSDQM@SHUDR							
Q^aãV*ÝAX^ÝYa*A&V^*æÝ^~Ža&~	A	~ A	Α -	A GÎ	A A	HËA A	ÈÈÎ
P*ŽÝ^ルV´*Ý^æV*ããÝ~	A	~ A	Α ~	A A ~	A A	ÈÍAA	ÈÍ
Tà*V´AV´*Ý^æV*aãÝ~	Â	A ~ A	ÂA ~	ÂA GÎ	A Â A	IÍA ÂA	È€I
Łàä äæZ´ÝYÅÑ@æY~	A	~ A	Α ~	A A	A A	HÎA A	ΗÎ
P*ŽÝĄ ^{ÁNB}	A	IA	Α -	A A	A A	~ A A	1/
Tà*V´AV~~Ý*~AV*AŸV2^AãV´@Ý	Â	l I A	ÂA €HG	AÂA GÎ	A Â A	ÈFIA ÂA	GIÍA

TŽÝAŸà´´à baæZa*VW´ÝA~@ ä ä V^a{Ý~AÞÉAŠÉAŠ*ÝÝ´•~AŸaæVæXaV´A´aVWa´a*aÝ~A*ŽV*A b Ý^ÝAæà*AXV^^aÝYAV*AŸVz^AāV´@ÝAV*AŠÝ&*Ý ä WÝ^A€ËDAÐËЀDA VæYAMÝXÝ ä WÝ^A€ÈDAÐËÐÐÉATŽÝAŸVz^AāV´@ÝAàŸA´aæZE*Ý^ ä AYÝW*A b V~AYÝ*Ý^ ä ææÝYA@~aæZAÒÝāÝ`AĐAæ&@*~É

'R NE 9 DOSD L ADQ Žfl řfl ř 'R NE * DBD L ADQ ŽŁ řfl ř , @HQ) @QQXHMF
7M L HKKHNMR. <@KTD

^{ÁWB}ÁÓæX´@YÝ~ÁXV~ŽDÁVXX^@ÝYÁæXà ä ÝDÁVæYÁ ä a~XÝ´´VæÝà@~Á&V|VW´Ý~É

Ł#/ 95@SD L DMS NE) G@MFDR HM 9SNBJGNKCDQR° +PTHSX

TŽÝAŸà´´àbaæZA*VW`ÝA^ÝŸ´ÝX*~A*ŽÝAŸa^~*AæaæÝA ä Ýå@a* AV**^aW@*VW`ÝA*àAÞÉAŠÉAŠ*ÝÝ´AVæYAÝå@a* A	àæ*Ž~&àŸ&ÐËЀ&VæY&ÐËÐÐ&^ÝXàæX&'a'&V*aàæ&àŸ&*ŽÝ&XV^^ aæZ&V ä à@æ*&àŸ&*à*V´&Ýå@a* D& V**^aW@*VW´Ý&*à&æàæXàæ*^à´a´aæZ&æ*Ý^Ý~*~Ï

4HMD 3 NMSGR +MCDC 9DOSD L ADQ Zfl* łflłł 7M L HKKHNMR	: N \$@K	8 DS@HMDC +@QMHMFR

X´à~@^ÝA ä àæa*à^sæZÉA LV~ÝYA àæA*ŽÝA Væ*8X8&V*ÝYA~Xà&ÝA VæYA YÝZ^ÝÝA àŸA @æXÝ^*V8æ* | A àŸA &^àáÝX*~DA*ŽÝA Łà ä &Væ | A XV*ÝZà^8{Ý~A &^àáÝX*~AV~AŸà´´â b~Ï

- ÃÈB ĒÔOL Î I ÖÖA PứÒJA ÊÑ Ì OKÑ ÌA ĐÌO Í RA GÑ ÍA ĐIOŒ ÎA C ĨŌ ĴIIOŒN Ĵ ÑÒA EÑ À ^*ZÝ~ÝA &^àa'XX*~DA *ŽÝAÝ **Yæ*A à ŸA^Ý ä YYaV*aàæA Ž V*A ä V Į AWÝA ^Ýâ@a'ÝYAa~Aæà*A Į Ý*Aæà b æDA*ŽÝA^Ý ä ÝYaV*aàæA ä Ý*ŽàY~AVæYA& ′Væ~AVÝAæà*A Į Ý*AÝÝ á Ý á&ÝYDAVæYĒà^AXà~*AÝ~*a ä V*Ý~AXVææà*A WÝAYÝ*Ý à aæýYÉA TŽÝ^ÝA ^ÝDA ~aZæaŸaXVæ*A Xà~*~DA æA VYYa*aàæA *àA*ŽÝA VXX^@ ÝYA 'aVWa'a*aÝ~A*ŽÝ~ÝA &^àa'XX*~DA V^ÝA ^ÝV~àæVW Į A &à~~aW ÝÉA TŽÝ^ÝA VÝA V *B àA Ýæãa^àæ ä Ýæ*V 'A^Ý ä ÝYaV*aàæA &^àà'XX*~A b ŽÝ^ÝA VYYa*aàæV 'AXà~*~AŸAA à & Ý*aàæA V^ÝAæà*A X@^YÝæ*¹ [A Ý~*a ä NW ÝAW@*AXàa @ YAWÝA ä V*Ý^aV ÉATŽÝ~ÝA&^àà'XX*~A V^ÝAV*A Þ QÔAVæYA*ŽÝAŸA * Ä ÝA~*Ý Ä OâæZA& `Væ*AV*AÔà a Ý*DAÓ''aæàa-ĒAAK~AàYA ŠÝ&*Ý ä WÝ^A €ËDAÐËЀDA VXX^@ ÝYA 'aVWa'a*a' ~A'ÀA^A*ŽÝ~YA&^àà'XX*~A*à*V 'ÝYA €FÐDËËËAŸA^*ŽÝAXà~*~A\ÀA'A~*@YaY~DAæâÝ~*aZV*aàæ~DA 2æ*Ý^a ä A ä ÝV~@^Ý~DAÝ*AZæAVæYĒà^ŶA*ŽAŸA*A*@*YA*DA*ZÁAVæYĀA*ŽÝ~ÝA &^àa'A*ŽÝ~ÝA &^àa'X*YAVYA*aàæ\'A'AXà@'YAWÝA V*A ā @XŽAV~AÂÍA ä a''aàæA*àAÂÈÈA ä a''aàæ£\Ô*A*ÀÂÈÈA ä a''aàæ£\Ô*A*ÀÂÈÈA ä a''aàæÉ
- ÆÀÁ ËÔOL Î I ÖÖA PKÒJA ÐK Ì ÑKIK I GNÖA ÃI I ÓØ Î Í A IMGHMIKK Î ÖA PKÒJA GA C Î ÎKNÎ Î Í A Ð I OŒ Î A ÂA K~A À YA ŠÝ&*Ý Ä WÝ^A €ËDA ĐËĐ€DA *ŽÝ^ÝA V^ÝA ŸÀ @^A ~aZæYaXVæ*A&^àáÝX*~A ba*ŽAYÝYaæÝYA~Xà&ÝAZ^ÝV*Ý^A*ŽVæA À^AÝA@V /A*ÀAÂGA ä a″aàæAÝVXŽDA ba*ŽAVA*à*V /AVXX^@ÝYA ′aVWa′a* | AàYAÂHHA ä a″aàæÉATŽÝ~ÝA&^ààÝX*~AV^ÝAOV^|ASÝ~à@^XÝAŁàæ~Ý^ãV*aàæAVæYASÝXàãÝ^|AKX*AÄVXX^@ÝYA′aVWa′a* | AàYAÂĐFA ä a″aàæBDAM@″@*ŽA Ú à^â~AÅVXX^@ÝYA′aVWa′a* | AàYAÂÈHA ä a″aàæBDAÑVa^YaÝYAÚ à^â~AÅVXX^@ÝYA′aVWa′a* | AàYAÂÈÍ Á ä a″aàæBDAÑVa°YaÝXa′a* | A
 ÄVXX^@ÝYA′aVWa′a* | AàYAÂÈÍ Á ä a″aàæ

VX*aãa*aÝ~A VæYA XV~Ý~A ĀaæX´@YÝYA aæA*ŽÝAÂÈË I A ä a´´aàæA àŸA VXX^@ÝYA ʿaVWaʿa*aÝ~A Ýà^A ^Ý ä ÝYaV*aàæA Ya~X@~~ÝYA VWàãÝBDA*ŽÝ^ÝA V^ÝA æàA à*ŽÝ^Aâæà bæA&^àWVW`ÝAYæ¥AÝ~*a ä VW`ÝAÝæãa^àæ ä Ýæ*V´AʿaVWaʿa*aÝ~A^Ý`V*ÝYA*àA*ŽÝ~ÝA*^Væ~VX*aàæ~É

fi6\$3\$05((4)]ATŽÝA ä V\a ä @ ä AZ@V^Væ*ÝÝ~AàŸA*ŽÝAaæYÝW*ÝYæÝ~~AàŸA@æXàæ~à´aYV*ÝYAÝæ*a*aÝ~AàŸAÞÉAŠÉAŠ*ÝÝ´A*à*V´ÝYA I A ä a´´aàæA V*AŠÝ&*Ý ä WÝ^A€ËDAÐËĐ€É

11/) NL LNM 98NBJ 8DOTQBG@RDC

PæAPX*àWÝ^AÐGDAÐËÐÈDA*ŽÝALàV^YAàŸAMa^ÝX*à^~AV@*Žà^a{ÝYAVA~ŽV^ÝA^Ý&@^XŽV~ÝA&^àZ^V ä A*ŽV*AV´`à bÝYAŸà^A*ŽÝA^¼&@^XŽV~ÝAåŸA @&A *àA €ËËA äa´ïaàæA àŸA a*~A à@*~*VæYææZA Xà ä ä àæA ~*àXâA Ÿ^à ä A *a ä ÝA *aA *a ä ÝA aæA *ŽÝA à&ÝæA ä V^âÝ*A à^A &^aãV*Ý´ | A æÝZà*aV*ÝYA *^Væ~VX*aàæ~ÉA PæA ÔVæ@V^|A ÐFDA ÐËÐÐDA *ŽÝA LàV^YA àŸA Ma^ÝX*à^~A V@*Žà^a{ÝYA VæA VYYa*aàæV´A ÂGËËA äa´ïaàæA @æYÝ^A *ŽÝA ~ŽV^ÝA ^Ý&@^XŽV~ÝA&^àZ^V ä ÉA

PælÔ@´|AÐGDAÐËÐÐDAŸà´´àbæZA*ŽÝAXà ä&´Ý*aàæAàŸA*ŽÝA&^ÝãàæAa¸ÝA*ŽÝA&^ÝãàæAa¸ÝYAÂÍËËA äa´´aàæA~ŽV^ÝA^Ý&@^XŽV~ÝA&^àZ^V ä~DA*ŽÝA LàV^YAàŸAMa^ÝX*à^~AV@*Žà^a{ÝYAVAæÝ bA~ŽV^ÝA^Ý&@^XŽV~ÝA&^àZ^V äA*ŽV*AV´´àb~AŸà^A*ŽÝA^Ý&@^XŽV~ÝAàŸA@&A*àAÂGËËA äa´´aàæAàŸAa*~A à@*~*VæYæZAXà ä ä àæA~*àXâAŸ^à ä A*a ä ÝA*àA*a ä ÝAæA*ŽÝAà&ÝæA ä V^âŶ*AàA*A&^aãV*Ý´|AæÝZà*aV*ÝYA*^Væ~VX*aàæ~AV*A*ŽÝAYa~X^Ý*aàæAàŸA ä VæVZÝ ä Ýæ*ÉATŽÝAŁà ä &Væ|Å~A~ŽV^ÝA^Ý&@^XŽV~ÝA&^àZ^V äAYàÝ~Aæà*AàW´aZV*ÝAa*A*àAVXå@a^ÝAVæ|A~&ÝXaŸaXAæ@ ä WÝ^AàŸA~ŽV^Ý~É

ÞÉA ŠÉA Š*ÝÝ′A ^Ý&@^XŽV~ÝYA IÉÈA ä a´´aàæA VæYA €ÈÉHA ä a´´aàæA ~ŽV^Ý~A àŸA Xà ä ä àæA ~*àXâA Ÿà^A V&&^à\a ä V*Ý´|A ÂÈ I GA ä a´´aàæA VæYA ÂHÎÎA ä a´´aàæA®æYÝ^A*ŽÝ~ÝA&^àZ^V ä ~AY®^æZA*ŽÝAææÝA ä àæ*Ž~AÝæYÝYAŠÝ&*Ý ä WÝ^A€ËDAÐËĐ€DAVæYAÐËÐÐDA^Ý~&ÝX*aāÝ´|É /\$DL \{\frac{1}{2}\} 3'4'-+3+4:\9 */9);99/54 '4* '4'2?9/9 5, ,\/4'4)/'2)54*/:/54 '4* 8+9;2:9 5, 56+8':/549

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Pæh K@Z@~*h È€Dh ĐËĐ€Dh *ŽÝh Łà ä &Væ | h Vææà@æXÝYh *ŽV*h a*~h LàV^Yh àÝh Ma^Ýx*à^~h YYXaYÝYh *àh aæa*aV*Ýh Vh ~*^V*ÝZaXh V´*Ý^æV*aãÝ ~h ^ÝãaÝ bh &^àXÝ~~Dh ba*Žh*ŽýhV~~a~*VæXÝhàŸhà@*~aYÝhŸœVæXaV′hVæYh ÝZV′hVYãa~à^~ÈhTŽÝ^Ýha~hæàhYÝVY′aæÝhà^NYÝp³æa*aãÝh*a ä Ý*VW Ýh~Ý*hŸà^hXà ä & Ý*aàæh à¾h*ŽÝh~*^V*ÝzaXhV´*ÝœV*aāÝ ~h,YãaÝ bh &^àXÝ~~hVæYh*ŽÝnÝhXVæhWÝhæàhV~~@^VæXÝh*ŽV*h*Ža~h&^àXÝ~~h ba´´h^Ý~@´*haæh*ŽÝhŁà ä &Væ | h&@^~@æZh Vh*^Væ~VX*aàæhà^hVæ | hà*ŽÝ^h~**V*ÝzaXhà@*Xà a ÝÉ

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ÞÉAŠÉAŠ*Ýݼ-A^Ý~@´*~AæA*ŽÝA*ŽæYAåŸA*ŽæYAå@V^*Ý^AàŸAÐËĐ€A ÞÝ^ÝA~aZææ³aXVæ*´| Aa ä &VX*ÝYAW| A ä V^âÝ*AXŽV´ÝæZÝ~AææAÝVXŽAàŸA*Žá*ÝAŁà ä &Væ| A¬Ýà@^A
^Ý&à^*VW´ÝA-ÝZ ä Ýæ*~ÏAÕà^*ŽAK ä ݰaXVæAÑ 'V*ESà´´ÝYAÂÑ 'V*ESà´´ÝYBAØææAØa´°DAÞÉAŠÉAŠ*ÝÝ´AN@^à&ÝAĀÞŠŠNBAVæYAT@W@`V^ÉA

TŽÝAØææAØa″A~ÝZ ä Ýæ*A^Ý~@´*~A b Ý^ÝAʿà b Ý^A⁺ŽVæA~ÝXàæYAå@V^*Ý^AÐËĐ€AV~AVA^Ý~@´*AàÏAʿà b Ý^AVZÝA~Ý″æZA&^aXÝ~A&V^*aV″ | AàŸ~Ý*AW | A 'à b Ý^A^V b A ä V*Ý^aV′Aà~*~ÉAQ´VææÝYA ä Væ*ÝæVæXÝAà@*VZÝ~AV^ÝAÝ\&ÝX*ÝYA*àAa ä &VX*A~Ža& ä Ýæ*Aãà´@ ä Ý~AVæYA ʿà b Ý^A~&à*A&^aXÝ~A V^ÝA Ý\&ÝX*ÝYA*àA VYÃÝA ~Ža& ä Ýæ*Aãà´@ ä Ý~AVæYA ʿà b Ý^A~&à*A&^aXÝ~A V^ÝA Ý\&ÝX*ÝYA*àA VYÃÝA à@V^*Ý^ÉA Òà b Ý^A ä &VX*A *ŽÝA ~ÝZ ä Ýæ*•A VãÝ^VZÝA ~Ý″æZA &^aXÝAæA*ŽÝA Ÿà@^*ŽAå@V^*ÝÆA Òà b Ý^A ä V^âÝ*A &^aXÝ~A Ÿà^AâÝ | A ä Ý*V″aXAæ&@*~AV^ÝAÝ\&ÝX*ÝYA*àAĬVÃà^VYÁ*àAĬVØāà^VW´IAa ä &VX*Aæ&@*AXà~*~AæA*ŽÝAĬà@V^*ŽÅå@V^*ÝÆ

TŽÝA ÞÉA ŠÉA ŠŤÝÝ AN@^à&ÝA~ÝZ ä Ýæ*A^Ý~@ ´*~A ÞÝ^ÝAæÝZV*aāÝ | Aa ä &VX*ÝYAW | A´à b Ý^AVZÝA~VŽÝA~Ý ~aæZA&^aXÝ~A&V^*aV~*la Y´A&V | A`à b Ý^A^V b A
ä V*Ý^aV´AXà~*~DA*ŽÝA ĬVāà^VWŢÁA ä &VX*A àĬĀŸā^ÝaZæĀÝ\XŽVæZÝA^V*Ý~A VæYA ´à b Ý^AÝæÝ^Z | AXà~*~ÉA Ø@*ÝYAX@~*à ä Ý^AYÝ ä VæYAVæYA*ŽÝAŽáZŽA
´ŶāÝ AàĬAa ä &à^*~AŽV~A^Ý~@ ´*ÝYAæA ´à b Ý^A~*ÝÝ A&^aXaæZA b ŽaXŽAa~AÝ\&ÝX*ÝYA*àAæÝZV*aāÝ | Aa ä &VX*A*ŽÝA~ÝZ ä Ýæ*•~AVãÝ^VZÝA~Ý ``aæZA&^aXÝAaæA
*ŽÝAĬà@^*ŽAå@V^*ÝÉAA

TŽÝAT@W@'V^A~ÝZ ä Ýæ*A^Ý~@'*~AbÝ^ÝA'à bÝ^A*ŽVæA~ÝXàæYAå@V^*Ý^ADËĐ€AV~AVA^Ý~@'*Aà¾A à bÝ^AVãÝ^VZÝA~Ý'íæZA&^₃XÝ~AVæYA'à bÝ^Aãà′@ ä Ý~ÉA
TŽÝA 'à bÝ^A &^₃XæZAVæYAYÝ ä VæYAÝæãa^àæ ä Ýæ*A bÝ^ÝAY^₃ãÝæA&^₃ ä V^₃′ | AW | A Xàæ*₃æ@ÝYAŽ₃ZŽA 'ÝãÝ'~Aà¾A a &à^*~DA Ž₃ZŽÝ^AæãÝæ*à^ | A 'ÝãÝ'~A
VX^à~~A*ŽÝA~@&&′ | AXŽVæAVæYA'à bÝ^A°AZAXà@æ*~A bŽ₃XŽA&@*A&^Ý~~@^ÝAàæAYà ä Ý~*₃XA&₃&ÝA&^àY@XÝ^AYÝ ä VæYAVæYA&^₃XæZÉATŽÝAŁà ä &Væ | A
Ý\&ÝX*~A*ŽÝAŸà DÉ*Ž^à@ZŽAà¾A'à bÝ^A PŁTOA&₃&ÝA&^3XY~A*àAXàæ*æ@ÝAæ*àA*ŽÝAŸà@^*ŽAå@V^*ÝAĎæAVYY₃*₃àæDAæãÝæ*à^ | A 'ÝãÝ'~AVX^à~~A*ŽÝA
*@W@'V^A~@&&′ | AXŽVæAV^ÝAæà^ ä V'₃{æàZAbŽabÝAÝ\&ÝX*A*àAÝVYA*àAæX^ÝYAV&@~*à ä Ý^AVX*āãa* | AVæYA~޳& ä Ýæ*Aãà′@ ä Ý~É

TŽÝAŁ à ä &Væ | AXàæ*aæ@ÝYA*àAVYÃVæXÝA²*~ALÝ~*AŸà^AK´′¹ A~*^V*ÝZ | AY@^aæZA*ŽÝA*Žø^YAå@V^*Ý£ATŽÝAæÝV^′ | AÂFAWa´′aàæAàŸA~*^V*ÝZaXAæãÝ~* ā Ýæ*AæA*ŽÝAØææA*ŽÝAØææAØa´′A~ÝZ ā Ýæ*AaæAåàZ^Á~*aæZAàæE*a ä ÝAVæYAàæEW@YZÝÉAK*A²*~ALaZASaãÝ^AŠ*ÝÝʿÄŮVXa′a* | DA*ŽÝAŁ à ä &Væ | AXà ä &´Ý*ÝYA\àæ~*^@X*aàæAà¾A VA ĐËĒE*Žà@~VæYE*àæDA æàæEZ^VæA à^aYæ*ÝYA ĀÕOPBA Ý ÝX*^aXV´A ~*ÝÝ A °æÝA bŽaXŽA &^àY@XÝYA a*~A ÿa^~*A Xàa´A ææA ŠÝ&*Ý ä WÝ^A ĐËĐ€DA VæYA ææY@~*^aV`AZ^VYÝAXàa´~AæA PX*àWÝYÉAŁ àæ~*^@X*aàæAà¾A LaZASaãÝ^AÐAæÝV^AP~XÝ A `VDAK^AVæ~V~AXàæ*aæ@ÝYAY@^aæZA*ŽÝAå@V^*ÝÁATŽa~AæÝ b A a**V*ÝÉATŽa~AæÝ b A a**V*ÝÉATŽA~AÝ V ***YA A **YÝ A a**VÝ A a**ZÝA a**VÝ A A**ZÝA A**YÝA VÆYA A**ZÝA A**YÝA A**ZÝA A**YÝA A**ZÝA A**YÝ A A**ZÝA A**YÝA A**ZÝA A**YÝ A A**ZÝA A**ZÝA A**YÝ A A**ZÝA A**ZÝA A**YÝA A**ZÝA A**YÝA A**ZÝA A**YÝA A**ZÝA A**YÝA A**ZÝA A**YÝA A**ZÝA A**YÝXA&A**ZÝA A**ZÝA A

Ñ'@X*@V*aàæ~AaæA*ŽÝA ä V^âÝ*A&^aXÝAàŸA>VbA ä V*Ý^aV´~AVæYAà*ŽÝ^AæŸV^|AaæŸV*aàæV\|Aa ä &VX*~AŽVãÝAVŸÝX*ÝYA*ŽÝA^Ý~@´*~AàŸAÝVXŽAàŸAà@^A^Ý&à^*VW`ÝA~ÝZ ä Ýæ*~DAVæYAŶ®V*aàæ~AZàaæZEŸà^bV^YAVÝA^ÝV~àæVW´|A'aâY´|A*àAŽVãÝAVA ä V*Ý^aV´Aa ä &VX*AàæAŸ@*@^ÝA^Ý~@´*~ÉA Ú ÝAXà@´YAÝ\&Ý^aÝæXÝAæŸVY*AàæA^Ý`@*@^ÝA^Ý~@´*~ÉA Ú ÝAXà@´YAÝ\&Ý^aÝæXÝAæŸVY*AàæA^Ý`V*ÝYAŽÝVY baæY~AŸà^AXÝ^*VaæA^V bA ä V*Ý^aV´~AVæYAà*ŽÝ^AXà~*~É

ĺœħŇÝW^@V^|AĐËĐĐĐAS@~~aVAæÃVYÝYAÞâ^VæÝAVæYAVX*aãÝAXàæĬ°aæ@Ý~AæA*ŽÝAXà@æ*^|ÊATŽÝAЬV^AæAÞâ^VæÝAĀV~AXV@~ÝYAXÝ^*VæA
Ya~^@&*aàæ~AVæYAæ~*VWa′a*|AæAS@~~aVAVæYAÞâ^VæÝDAV~AbÓY′′AV~AæA*ŽÝAäVAŶ*~AaæAbŽxŽAbÝAà&Ý^V*ÝÉATŽÝAŁàä&Væ|Aa~AXàæ~*Væ*′|A
ä àæa*à^œæZA*ŽÝA~a*@V*aàæAŸà×ÅÅÅŸ@*@^ÝAaā&AVæYA^a~â~A*ŽÝAW@~æ¥~~AVæYAŽV~Aaä&ݰXAA*Ä¥*ŽÝAAa*@XY*æXZA*ŽYAPæa*ZA*ŽÝAA*Ä*ZÝAæãV*æZA~*^V*YZaÝ~AbŽÝAŶa~a*@V*aàæAÅÄNÞBAVæYA*ŽÝAÞà^3~AbŽÝAbà^YPĎaæX′@YæZA*ŽÝAN@^à&ÝYæAPæaàæAÅNÞBAVæYA*ŽÝAÞæ*ÝYAŠ*V*Ý~AàŸA

KäÝ^aXVAĀÞĖŠÉBDAŽVãÝAÝæVX*aàæ~AVZVaæ~*AS@~~aVAVæYAS@~~aVæAæ*Ý^Ý~*~ĖĀÚÝAV^ÝAXàä&{|aæZAba*ŽAV′′AV&&´aXVW´ÝA~VæX*aàæ~A*ŽV*Aaä&VX*Aà@^AW@~aæÝ~~Ė

ŠæXÝA*ŽÝA àæ~Ý*A àŸA*ŽÝA b V^DA VæYA WÝŸà^ÝDA ÞŠŠNA ŽV~A WÝÝæA &^àX@^3æZA a^àæA à^ÝA VæYA XàV´A*Ž^à@ZŽA V´*Ý^æV*ÝA~à@^XÝ~ÉA Ú ²*ŽA*ŽÝA NÞA &^àŽaW²*æZA &@^XŽV~Ý~A àŸA XàV´A à^aZæV*aæZA ¾^à ä A S@~~aVA ŽVãÝA ~*à&&ÝYÉA TŽÝA Łà ä &Væ | AŽV~AW@a**A@&A-@Ÿ³axZA ¾^à ä A S@~~aVA ŽVãÝA ~*à&&ÝYÉA TŽÝA Łà ä &Væ | AŽV~AW@a**A@&A-@Ÿ³axZá*V*æ*Ax@a**A*àA ä ÝÝ*AX@^^Ýæ*AX@~*à ä Ý^AYÝ ä VæYAVæYAV´*Ý^æV*ÝA~@&&´| AXŽVæ~AŽVãÝA WÝÝæH³@´´| Aa & Ý ä Ýæ*ÝYÉA

KYYa*aàæV´´|DAS@~~aVæA~@&&´|AàÏAæV*@^V´AZV~A*àAN@^à&ÝAŽV~AYÝX^ÝV~ÝYA~aZæaĬaXVæ*´|AaæA^Ý~&àæ~ÝA*àAÝæVX*ÝYA~VæX*aàæ~ÉAŒàbÝãÝ∿DAŠ`áãVâaVAŽV~AæV*@^V´AZV~A~*à^VZÝAVæYAVXÝ~~A*àAVYYa*aàæV´A~@&&´|AĬ^^à a AXà@æ*^aý~AaæX´@YaæZAÕà^bV|DA*ŽÝAÞĖŠÉAVæYAKĬŶaXVÉATàZÝ*ŽÝ∿DA*ŽÝ~A@&&´|AĬ^^à a AXà@æ*^aý~AaæX´@YaæZAÕà^bV|DA*ŽÝAÞĖŠÉAVæYAKĬŶaXJÉATàZÝ*ŽÝADA*ŽÝ~DA*ŽÝ~AAVÝAAà@ZŽA*ŽÝAYæYAÀÄ\ADËЀDAbĎaxŽAaæX´@YÝ~AYÝ ä VæYAĬŶa^AæV*@^V`AZV~AĬŶà^Aà@^AÞŠŠNA~ÝZ ä Ýæ*Aà&Ý^V*aàæ~É

8+9:2:95.56+8':/549

- 1 4NQ\$G 'L DQHB@M , K@\$18NKKDC ", K@\$18NKKDC & N \ V*ESà 'ÝYA ^Ý~@'*~A \ Yà^\A *ŽYA *ŽYÁ *ŽYÁ *Z^ŶÝA VæYA ææÝA ä àæ*Ž~A ÝæYÝYA ŠÝ&*Ý ä WÝ^A €ËDA
 ĐËĐ€AYÝX 'æÝYA&^3 ä V^3 'I AY@ÝA*àA' à b Ý^A~V Ý~A&^3XÝAVX^à~~A ä à~*A&^àY@X*AXV*ÝZà^₃Ý~É
- 1 3 HMH 3 HKK&A ØaæaA Øa´´A^Ý~@´*~AŸà^A*ŽÝA

ØVæVZÝ ä Ýæ*•-A VæV′ | ~a~A àŸA*ŽÝA **ODQBDMS@FD BG@MFD HM MDS R@KDR**AŸà^A ÞÉA ŠÉA Š*ÝÝ •~A^Ý&à^*VW´ÝA W@~aæÝ~~A ~ÝZ ä Ýæ*~AŸà^A*ŽÝA*ŽÝA*Ž^ÝÝA ä àæ*Ž~AÝæYÝYAŠÝ&*Ý ä WÝ^A€ËDAĐËĐĐÏ

	9SDDK 6QNCTBSR ^{"8} .					
	<nkt d<="" l="" th=""><th>6QHBD</th><th>3 HW</th><th>, > ^{~A}.</th><th>5 SGDQ B.</th><th>4D\$)G@MFD</th></nkt>	6QHBD	3 HW	, > ^{~A} .	5 SGDQ B.	4D\$)G@MFD
Ñ'V*ESà''ÝY	ÃÈBÆ	ÃÈ€BÆ	ΑĞΑÄ	ΑĕΑÄ	ÃÈBÆ	ÃÈGBAÄ
ØaæaAØa′′	HA Ä	ÃĐÈBÆ	ÆAÄ	ΑĞΑÄ	Α˘ΑÄ	ÃÈÐBÆ
ÞŠŠN	E ËA Ä	ÃĐ€BÆ	ÀBÆ	ÁΑÄ	ÃÈBÆ	ÃÎBAÄ
T@W@´V^	ÃÈÍBÆ	ÃGBÆ	ÀBÆ	ΑĞΑÄ	ΑĕΑÄ	ÃÐHBÆ

ĀVBAN\X´@YÝ~Aaæ*Ý^~ÝZ ä Ýæ*A~V´Ý~É

ÕÝ*A ~V´Ý~A Ÿà^A *ŽÝA *Ž^ÝA *Ä àæ*Ž~A ÝæYÝYA ŠÝ&*Ý ä WÝ^A €ËDA ĐËĐ€DA Xà ä &V^ÝYA *àA *ŽÝA ~V ä ÝA &Ý^aàYA aæA ĐËĐĐA b Ý^ÝA ÂFDF€ÈA ä a´´aàæA VæYA ÂGDĐË€A ä a´´aàæDA^Ý~&ÝX*aãÝ′ |É

 $^{^{}AWB}ANa^{4}Z$

^{ÄXB}AQ^a ä V^a´| A~V´Ý~AàŸA^V b A ä V*Ý^aV´~AVæYAXàâÝA ä VâaæZAW|E&^àY@X*~É

9DF L DMS QDRTKSR ENQ: 99+

	: GQDD 3 NMSGR +MCDC 9 DOSD L ADQ ŽfI		4HMD 3 NM\$GR +MCDC 9DO\$D L ADQ ŽfI*						
		łflłŽ		łflłł) G@MFD	łflłŽ		łflłł) G@MFD
ĀÒà~~BAÝV^ææZ~AWÝŸà^ÝAæ*Ý^Ý~*AVæYA*V\Ý~AĀÂA ä a ´´aàæ~B	Ü	٦ŁŽ	Â۸	ÀÐBA	GÎAÄ	~ <u>}</u>	Â۸	GÈÐA	à ΠGBAÄ
O^à~~AäV^Zaæ		ł	•	ΑĕΑÄ	Đ A Ä	!	•	ÈIAÄ	ÃÈÐBÆ
SVbA~*ÝÝ′A&^àY@X*aàæAĀ ä æ*B		%% f l	A	ÎFHA	G A Ä	Ž~ł%!	A	€DÐGËA	ÈAÄ
ŁV&VWa´a* A@*a´a{V*aàæ		#%	•	AI GA Ä	FAÄ	\$\$	•	ÁIAÄ	ÈAÄ
Š*ÝÝ´A~Žà& ä Ýæ*~AĀ ä æ*B		%!\$	A	ÍHIA	ÆËAÄ	ł * \$#!	A	€DËFFA	ÃHBÆ
KãÝ^VZÝA^ÝV´a{ÝYA~*ÝÝ´A&^aXÝA&Ý^AĀÂĖ*àæB	v	\$! ł	ÂA	ÈDËĐÈA	ÃÈIBAÄ	ັ % Łf l	ÂA	ÈDÈĐÈA	ÃÈÎBAÄ
KãÝ^VZÝA^ÝV´a{ÝYA~*ÝÝ´A&^aXÝA&Ý^AŸÊ*àæB	٨	#\$Ž	, A	ÈDËÈ€A	ÃĐ€BÆ	^ \$žfl	, A	ÈDËFÎA	ÃĐËBÆ

TŽÝA æX^ÝV~ÝA æA ÞŠŠNA ^Ý~@´*~A Ÿà^A *ŽÝA *ŽÝA *ŽÝÁ *Ž A ÝæYÝYA ŠÝ&*Ý ä WÝ^A €ËDA ĐËĐ€DA Xà ä &V^ÝYA *àA *ŽÝA ~V ä ÝA &Ý^aàYA æA ĐËĐĐA b V~A &^a ä V^a´I AY@ÝA*äÏ

- ç ´àbÝ^A^V bA ä V*Ý^aV´AXà~*~DAaæX´@YaæZAæãÝæ*à^|A^ÝãV´@V*aàæ~AÁV&&^à\a ä V*Ý´|AÂÈIËA ä a´´aàæB
- ; ´àbÝ^AÝæÝ^Z|AXà~*~AÃV&&^à\a ä V*Ý´|AÂĐËA ä a´´aàæB
- Ç ~*^ÝæZ*ŽÝææZAàŸA*ŽÝAN@^àAãÝ^~@~A*ŽÝAÞÉŠÉAYà´´V^AÃV&&^à\a`äV*Ý´|AÂÐGA`äa´´aàæBD
- ç ′àbÝ^λà*ŽÝ^λXà~*~λÃV&&^à\aäV*Ý′|λÂÈËλäa′′εàæΒD
- *ŽÝ~ÝAXŽVæZÝ~AbÝ^ÝA&V^*aV'' | AàŸŸ~Ý*AW | Ï
 - ç ´àbÝ^AVãÝ^VZÝA^ÝV´a{ÝYA&^aXÝ~DAaæX´@YaæZA ä a\AÃV&&^à\a ä V*Ý´|AÂÐËËA ä a´´aàæB
 - ç 'àbÝ^Aà*ŽÝ^A~V'Ý~AÃV&&^à\aäV*Ý'|AÂGAäa''aàæBÉ

O^à~~A ä V^ZæAİ'à^A*ŽÝA*Ž^ÝA*Ž^ÝYÁ ä àæ*Ž~AÝæYÝYAŠÝ&*Ý ä WÝ^A€ËDAÐËĐ€DAXà ä &V^ÝYA*àA*ŽÝA~V ä ÝA&Ý^aàYAæAÐËĐĐAæX^ÝV~ÝYA&^a ä V^a′ | AV~AVA ^Ý~@'*AàĬA`Á Ď Ý^AXà~*~DA&^a ä V^a′ | A^V b A ä V*Ý^aV′~É

TŽÝA YÝX^ÝV~ÝA aœA ÞŠŠNA ^Ý~@´*~A Ÿà^A *ŽÝA œaœÝA ä àœ*Ž~A ÝæYÝYA ŠÝ&*Ý ä WÝ^A €ËDA ĐËĐ€DA Xà ä &V^ÝYA *àA *ŽÝA ~V ä ÝA &Ý^aàYA aœA ĐËĐĐA b V~A &^a ä V/a′ I AY@ÝA*àÏ

- ç 'àbÝ^AVãÝ^VZÝA^ÝV³a{ÝYA&^aXÝ~DAaæX´@YaæZA ä a\AÃV&&^à\a ä V*Ý´|AÂHËËA ä a´´aàæB
- c YÝX^ÝV~ÝYA~Ža& ä Ýæ*~AÃV&&^à \a ä V*Ý´ | AÂĐGA ä a´´aàæB
- c 'àbÝ^Aà*ŽÝ^A~V'Ý~AÃV&&^à\a ä V*Ý' [AÂÈĠA ä a''aàæB
- ç ŽaZŽÝ^Aà&Ý^V*aæZAXà~*~AÃV&&^à\a ä V*Ý´|AÂÈËA ä a´´aàæBD
- *ŽÝ~ÝAXŽVæZÝ~AbÝ^ÝA&V^*aV'' | AàŸŸ~Ý*AW | Ï
 - ç ´à b Ý^^v b h ä V*Ý^aV´AXà~*~DAaæX´@YaæZAaæãÝæ*à^|A^ÝãV´@V*aàæ~AÅV&&^à \a ä V*Ý´|AÂÈÈËA ä a´´aàæB
 - ç ´àbÝ^\\à*ŽÝ^\\Xà~*~D\\&^\a`ä V^\a´|\\ãV^\aVW´Y\\Xà ä &Ýæ~V*\aàæ\\ÅV&&^à\\a`ä V*Ý´|\\ÂGG\\äa`a´`aàæ\\É

9DF L DMS QDRTKSR ENQ : TATK@Q

	:	GQDD 3 N 9 DOSD				4HMD 3 N 9DOSD			
		łflłŽ		łflłł) G@MFD	łflłŽ		łflłł) G@MFD
NV^æaæZ~AWÝŸà^ÝAæ*Ý^Ý~*AVæYA*V\Ý~AÄÂA ä a´´aàæ~B	v	\$#	ÂA	ÈGGA	ÃFFBÆ	~ ž#"	Â۸	€€ÎA	FËAÄ
O^à~~A ä V^Zaæ		Žfl		ÆIAÄ	ÃIBAÄ	žł		Æ€AÄ	AÎ A Ä
SVbA~*ÝÝ′A&^àY@X*aàæAĀ ä æ*B		ŁŁŁ	A	Èl€A	ÀHBÆ	žŁŁ	A	FÎIA	ÃÈIBÆ
ŁV&VWa'a* A@*a'a{V*aàæ		ž%		AI HA Ä	ÃÐ I BAÄ	"Ł		AI FA Ä	ÃÈ€BÆ
Š*ÝÝ′A~Ž3& ä Ýæ*~AĀ ä æ*B		Łflž	A	ÈÐHA	ÃÈIBÆ	Žž"	A	€ÎËA	ÃÈÈBÆ
KãÝ^VZÝA^ÝV´a{ÝYA~*ÝÝ´A&^aXÝA&Ý^A*àæ	v	ł*%ł#	Â۸	€DĐÈIA	ÃÎBAÄ	~ Ž"žłł	ÂA	ÐDIHÈA	ÐFAÄ

TŽÝAYÝX^ÝV~ÝAæAT@W@´V^A^Ý~@´*~AŸà^A*ŽÝA*ŽÝÁ*Ž^ÝÝA ä àæ*Ž~AÝæYÝYAŠÝ&*Ý ä WÝ^A€ËDAÐËĐ€DAXà ä &V^ÝYA*àA*ŽÝA~V ä ÝA&Ý^aàYAæAÐËĐĐA b V~A &^a ä V^a´IAY@ÝA*àÏ

- ç 'àbÝ^AVãÝ^VZÝA^ÝV′a{ÝYA&^aXÝ~AÃV&&^à\a ä V*Ý′ | A€ËA ä a '`aàæB
- Ç YÝX^ÝV~ÝYA~Ža&äÝæ*~DhaæX´@YaæZhãà´@äÝhaæÝŸjaXaÝæXaÝ~hĀV&&^à\aäV*Ý´|hÂHGhäa´aàæBD
- *ŽÝ~ÝAXŽVæZÝ~AbÝ^ÝA&V^*aV''|AàÿŸ~Ý*AW|Ï
 - ç 'àbÝ^AÝæÝ^Z|AXà~*~AÃV&&^à\a ä V*Ý'|AÂGA ä a''aàæB

2/7;/*/:? '4*) '6/: '28+95;8)+9

4DS) @RG 6QNUHCDC AX 5ODQ@SHMF 'BSHUHSHDR

K~A~ŽàbæAWÝ'àbAà@^AXV~ŽAXàæãÝ^~aàæAX | X´ÝAŸà^A*ŽÝA*Ža^YAå@V^*Ý^AàŸAÐËĐ€AYÝX^ÝV~ÝYAW | AGAYV | ~AV~AXà ä &V^ÝYA*àA*ŽÝAŸà@^*ŽAå@V^*Ý^A

 $X \check{Z} V \& Z \acute{Y} \& X \check{Y} V @ \sim \acute{Y} \sim \check{E} \& \mathring{V} \& Y \wedge \mathring{V} V \& Y \wedge \mathring{V} \wedge \mathring{V} \& \mathring{V} \wedge \mathring$

PæA ŠÝ&*Ý ä WÝ^A ĐÍ*ŽDA ĐËĐ€DA *ŽÝA Łà ä &Væ JA ÝÝX*ÝYA *àA ^ÝY@XÝA *ŽÝA ~a{ÝA àŸA *ŽÝA ÞŠŠÖA Ł^ÝYa*A KZ^ÝÝ ä Ýæ*A Ĭ/°à ä A ¸€ËËA ä a´´aàæA *àA ¸ÈGËA ä a´´aàæA ÅV&&^à\a ä V*Ý´ JA ÂÈGÎA ä a´´aàæBEA TŽÝA^ÝY@XÝYA ÞŠŠÖA Ł^ÝYa*A KZ^ÝÝ ä Ýæ*A ä Væ*VææYYA*ŽÝA &^ÝÃaà@~A 'V^ZÝ^A VZ^ÝY ZÝA VZ^ÝÝ a Ýæ*Å~A ÞŠŠÖA~&ÝXaŸaXAŸæVæXaV´AXàāÝæVæ*~ÉATŽÝA^ÝY@XÝYAX^ÝYa*AŸVXa´a* JA~a{ÝA~@&&à^*~AÞŠŠÖ•~A´aå@aYa* JAæÝÝY~AVæYAa~AXàæ~a~*Ýæ*A ba*ŽAÝŸà^*~A *àAà&*a ä a{ÝAXà~*~AVæYA*ŽÝAZ´àWV´A´aå@aYa* JA&à~a*àaæÉ

ÚÝA @~ÝA~@^Ý*|A WàæY~DA*^@~*~A VæYA ´Ý**Ý^~A àÝA X^ÝYa*A *àA &^àāaYÝA bŽà ´ÝA à^A &V^*3V´A ŸaæVæXaV´A V~~@^VæXÝA Ÿà^A XÝ^*VaæA *^Væ~VX*aàæ~A VæYA

N\&à^*A Ó ä &à^*A LVæâA àŸA *ŽÝA Þæ³*ÝYA Š*V*Ý~A *àA Z@V^Væ*ÝÝA Î ËA &Ý^XÝæ*A àŸA ~@&&´aŶA Ŷà^A àW´aZV*aàæ~A ~à YA Ŷà^A @&A *àA ÂĐËËA ä a´´aàæÉA ÕàA Z@V^Væ*ÝÝ~Aà^AXà´´V*Ý^V´AV^ÝA&^àāaYÝYAW IA*ŽÝAŁà ä &Væ IAà^AVæ IAàŸA*~A~@W~aYaVaÝ~A@æYÝ^A*ŽÝAŠŁÑA&^àZ^V äÉA

TŽÝAŁàä&Væ|•~AZàV'A²-A*àAXV&*@^ÝA*ZÝA*Q&&ý^A-VãæZ~AVæYAªä&A^ããÝA bà^âæZAXV&ª*V'AÝŸ³XaÝæX JÉATŽÝAVZ^ÝÝ a Ýæ*~AĬŶVXa'a*V*\\$*\\$*ZÝA ~@&&`aÝ^~•AVWa'a* | A*àA~Ý'`A&V | ä Ýæ*AàW'aZV*aàæ~DA bŽa'ÝA&^àãaYaæZA*ŽÝ ä A ba*ŽAZ^ÝY*A bà^âæZAXV&ª*V'AŸ'`A\Wa'a* | ÉATŽÝAŁàä&Væ | AŽV~AæàA ÝXàæà ä aXA aæ*Y^Ý-*A aæA *ŽÝA ~V´YA àĬA *ŽÝA ~@&&`aÝ^-•A YXÝaãVW'Ý-A VæYA æàA Ya^ÝX*A ŸaæVæXaV'A ^Ý`V*aàæ~Ža&A ba*ŽA *ŽÝA ŸaæVæXaV'A aæ~a*a*@*aæA Ya^ÝX*A ŸaæVæXaV'A ^Ý`V*aàæ~Ža&A ba*ŽA *ŽÝA ŸaæVæXaV'A aæ~a*a*@*aæA Ya^ÝX*A ŸaæVæXaV'A ^Ý`V*aàæ~Ža&A ba*ŽA *ŽÝA ŸaæVæXaV'A aæ~a*a*@*aæA *àA~XàæXÝ^ææZA*ŽÝ-YA-YŶaæZAV ä à@æ*-AY@ÝAVæYA-XŽÝY@`ÝYA&V | a Ýæ*AYV*Ý-DAV^ÝA æà*Aa ä &VX*ÝYAW | A~@&&'aÝ^-•AYÝXa~aàæ~A*àA~Ý''AV a à@æ*~A@æYÝ^A*ŽÝAV^VæZÝ a Ýæ*-ÉATŽÝAŠŁÑA&^àZ^V ä A^Ýå@a^Ý-A*ŽÝAŁàä&Va A*XàæŸa^ a ÝYA&V^*aXa&V*aæZA~@&&'aÝA*æãàaXÝ~ÉATŽÝA&V | a Ýæ*A*Ý^ a ~AŶà^AXàæŸa^ a ÝYA&V*aXa&V*aæZA~@&&'aÝAbæãàaXÝ~ÉATŽÝA&V | a Ýæ*A*Ý^ a ~AŶà^AXàæŸa^ a ÝYA&V*aXa&V*aæZA~@&&'aÝAbWVA&V | a Ýæ*A*Ý^ a ~AŶà^AXàæŸa^ a ÝYA&V*aXa&V*aæZA~@&&'aÝAbWVA&V | a Ýæ*A*Ý^ a ~AŶà^AXàæŶa^ a ÝYA&VAZÝA\BãaãaXÝ~A^VæZÝA\BåãaaXÝ~A\VæZÝA\BåāaAXÝ~A\VæZÝA\BÅAÎĒAYV | ~AVŶ*ÁYæ¥AåÂV¥ŽÝA¥¥AÅABĀAXŽÝA&ABĀAXŽÁ¥ŽÝA&æãàaXÝABVA~@\YÉA

+MUHQNM L DMS@K 3 @SSDQR 2HSHF@SHNM @MC) NMSHMFDMBHDR

Šà ä ÝÀÀŸA ÞÉA ŠÉA Š*ÝÝ '*-A ŤVVXá 'a*aÝ~A Þ Ý^ÝAæA à&Ý^V*aà&AWÝŸà^ÝA È Î ËËÉAK '*Žà@ZŽĀ*ŽÝAŁà ä &Væ | AWÝ 'aÝãÝ~A*ŽV*Aa*~AÝæãa^àæ ä Ýæ*V′A&^VX*aXÝ~A ŽVãÝA Ýa*ŽÝ^A ÝYA*ŽÝAæY@~*^|A à^AV*A ÝV~*AWÝÝæA Xàæ~a~*Ýæ*A ba*ŽA &^ÝãVá 'aæZAaæY@~*^|A &^VX*aXÝ~DA ŽV {V^Yà@~A ä V*Ý^aV '~AŽVãÝAWÝÝæA VæYA ä V | AXàæ*aæ@ÝA*àAWÝA^Ý ÝV~ÝYAV*AX@^^Ýæ*Aà^AŸà^a Ý^Aà&Ý^V*aæZA~a*Ý~Aà^AYÝ'aãÝ^ŶA*àA~a*Ý~Aà&Ý^V*ÝAW|A*Ža^YA&V^*aÝ~É

ÞÉAŠÉAŠ*ÝÝ/AŽV~AaæX@^^ÝYAVæYA ba''AXàæ*³æ@ÝA*àAaæX@^A~@W~*Væ*aV'AXV&**V'DAà&Ý^V*aæZDAVæYA ä Vaæ*ÝæVæXÝAVæYA^Ý a ÝYaV*aàæAÝ\&ÝæVa*ZVãÝAWÝY~A V~AVA^Ý~@ '*A àŸA Ýæãa^àæ ä Ýæ*V'A 'Vb~A ZVãÝA WÝYZ@ 'V*aàæ~DA^Ý 'V*ÝYA*àA^Ý 'ÝV~ÝA àŸAŽV {V^Yà@~A ä V*Ý^aV'~DA bŽaXŽAaæA^ÝXÝæ*A | ÝV^~A ŽVãÝA WÝÝæA ä Væ* I AŸà^A&^àXÝ~~AXŽVæZÝ~A*àA ä ÝÝ*A*ŽÝAŁ KKAàW'aZV*aàæ~AVæYA~a ä a 'V^AàW'aZV*aàæ~AaæAN@^à&ÝÉ

C€ACÑÕKÔOÑN ÎÑÒGIIAÈÎÓØKÔÎN ÎÑÒÖAGÑ ÍAÐIIOÕGŁAÊŒÎÔGÒKOÑÖ

QŽV~ÝAŮUAàŸA*ŽÝANÞAN ä a~~aàæ~AT^VYæZAŠ |~*Ý ä hĀ*ŽÝANÞANTŠBAXà ä ä ÝæXÝYAàæAÔVæ@V^|AÈDAĐËĐÈAVæYA ba″AŸææ~ŽAàæAMÝXÝ ä WÝ^A€DAÐË€ËÉATŽÝAN@^à&ÝVæAŁà ä ä a~~aàæAa~~@ÝYAŸaæV'AV&&^àāV'AŶA®&YV*ÝYAÐËÐÈEÐËÐGAŠ 'àãVâAÕV*aàæAV'AK″àXV*aàæANÝW^@V^|AÐËÐÐÉATŽÝAŠ 'àãVâAØæa~*^|AàŸANæãa^àæ ä Ýæ*AŽV~AV″àXV*ÝYAHÉÐA ä a″aàæA ä Ý*^aXA*àæ~AàŸAN@^à&ÝVæAÞæaàæAN ä a~~aàæAK″àb VæXÝ~ĀÂNÞKBAV*AæàA XŽV^ZÝAĀŸAÝYÁ V″à bVæXÝ~Ā à^A ¾°ÝÝA V″àXV*aàæBA*àA ÞŠŠNÉA K~A àŸA ŠÝ&*Ý ä WÝ^A €ËDA ĐËĐ€DA b ÝA ŽVāÝA &^ÝE&@^XŽV~ÝYA VæYA~ÝY* V&&^à\aä A ÞŠŠNÉA K~A àŸA ŠÝ&*Ý ä WÝ^A €ËDA ĐËĐ€DA b ÝA ŽVāÝA &^ÝE&@^XŽV~ÝYA VæYA~ÝY* ÝYA V&&^à\aä V*Ý′|A ÈÉHGA ä a″aàæA NÞKA*à*V′æZA È€GA ä a″aàæA ĀV&&^à\aä V*Ý′|A ÂÈF€A ä a″aàæBA*àA XàãÝA*ŽÝA Ý\&ÝX*ÝYA ĐËĐ€A ~Žà^*ŶV″Á aŸA Ý a WŶ^APAPEЀDA b ÝA ŽVāÝA *ŽÝA Ý\&ÝX*ÝYA ĐËĐ€A ~Žà^*ŶV″ÁA AŸA Ý a WŶ^APAPEЀDA b ÝAŽVāÝAV ~ÀAæ*àAŶA*A b V*YA ÐËÐFA~Žà^*ŶV″ÉAÔæAŠÝ&*Ý a WŶ^APEЀDA b ÝAŽVāÝAV ~àAÝA*ÀPAPAPA A*ÀA &@^XŽV~ÝADĒÐFA~Žà^*ŶNV~ÉAØ&AŶANPKAæAÔVæ@V^|AVæYANŶW@V^|AÐËÐFDA\Ä*ZÝAVæ*aXa&V*ÝYAÐËÐFA~Žà^*ŶNV″É

TŽÝANÞ•~AÓæY@~*^aV´AN ä a~~aàæ~AMa^ÝX*aãÝA^Ýå@a^Ý~Aā a & Ý a Ýæ*V*aàæAàŸANÞAYÝ*Ý^ a æÝYAWÝ~²ħVãVa´VWÝA*ÝXŽæaå@Ý~AĀLKTBAŸà^AÓ^àæAVæYA
Š*ÝÝ´A &^àY@X*aàæA*àA^ÝY@XÝA Ýæãa^àæ a Ýæ*V´A a a &VX*~A b Ý´A V~A b á á &´aVæXÝA b a*ŽA LKTA V~~àXa`V*ÝYA Ý a a~~aàæA ÝãÝ-Á Tà*V´A XV&*V´A
Ý\&ÝæYa*@^Ý~A\Ÿa^A &^ààÝX*~A*àA ZàA WÝ | àæYA LKTA ^Ýà@a²Ý a Ýæ*~A b Ý^ÝA ÈÉÍA a a´´aàæAĀV&&^à\a a V*Ý´ | ÅÂÈFHA a a´´aàæBÉATŽÝ~ÝA Xà~*~A b Ý^ÝA
&V^*aV´, A Ña^Y~Ý*A W | A*ŽÝA NÞAŸ@æYæZA^ÝXÝaãÝYA VæYA a V | AWÝA a a*aZV*ÝYĀ àãÝA*A*ÝA*AÝA*YA*AÝA ÞŠŠÖA Xà a & aÝ~A b a*ŽA
XÝ^*VæARÝaæVæXaV´AXàãÝæVæ*~AB bŽAXŽAV^ÝAV~~Ý~~ÝYAVææ@V´′ [ÉAĎŶA b ÁVAÃ@æVWÝA*àA a ÝY*A*ŽÝ~ÝAXàãÝæVæ*~AæA*ŽÝAÝ@*@^ÝDAÞŠŠÖA a aZŽ*AWÝA
^Ýå@a^ÝYA*àA&^àãaYYÁAVYYa*aàæV´AXà´′V*Ý^V´AĀÝÉZÉDAWVæÂAZ@V^Væ*AÝÝBA*àA~ÝX@^ÝAĞËA&ÝAXÝ*ŽÝANÞAŸ@æYæZA^ÝXÝaãÝYÉAÞŠŠÖAXà a & aÝYA
ba*ŽA*ŽÝ~ÝAXàãÝæVæ*~AV~AàŸAŠÝ&*Ý a WÝ^A\€ËDAĐËĐĒĐ€DAVæYAæàAVYYa*aàæV´AXà´′V*ÝAV´ABa*A WÝYAW å @æ^ÝYAW | A*ŽÝAÝæYAàŸAÔ@æÝA\€DAPËDEDEFÉAL | A*Ža~A
æÝ*AV~~Ý~~ a Ýæ*A YV*ÝDA*b àA&^àáYX*~A àŸA*ŽÝA*à*V´A ŘaŸA*ŽÝA XàãÝæVæ*~A V^ÝA & a æ³*à^æZA VæYA ba*´AWYA ÝA VXYA*A à¾A ŶA*À & AàãYYA VYYa*aàæV´A Xà´′V*ÝAV´A ba`´A WÝA ŶA*A & AàãYYA VYYA*aàæV´A Xà´´V*ÝAV´A Ba*A & AàãYA VæYA ba`´AWÝA ÝA Øæ*A AŸA ŠæVæXA VæYA ba`´AWÝA ÝA Øæ*A AÌÄ ŘæVæXaV´A XàãÝæVæ*~A ba´´A WÝA & Aà¾A Ô@æÝA E EDAĐĒĐHÉ

Nà^hŸ@^*ŽÝ^AYa~X@~~aàæhàŸh´Vb~hV&&`aXVW´ÝhaæhŠ´àāVâaVhVæYh*ŽÝhNÞhVæYh*ŽÝa^haā&VX*hàæhÞŠŠNDh~ÝÝhĐÈh*àh*ŽÝhŁàæYÝæ~ÝYhŁàæ-à´aYV*ÝYhÑaæVæXaV´hŠ*V*ÝäÝæ*~DhcŁàæ*aæZÝæXaÝ~hVæYhŁàäa*a*äÝæ*~hEhNæãa^àæäÝæ*V´hØV**Ý^~DhNÞhNæãa^àæäÝæ*V´hSÝå@a^Ýa**-É`

4DV @MC + L DQFHMF + MUHQNM L DMS@K 8DFTK@SHNMR

ۄKÒÎÍAĐÒGÒÎÖAGÑÍAÇØÔOŒÎGÑA EÔÎÎÑJOØÖÎA EGÖAÇNKÖÖKOÑÖAÈÎÌÌØNGÒKOÑÖ

TŽÝAQŽV~ÝAŮUANÞANTŠA&Ý^3àYA~&Væ~AĐËĐÈEĐË€ËAVæYAWÝZVæAàæAÔVæ@V^|AÈDAĐËĐÈÉTŽÝAQŽV~ÝAŮUA&Ý^3àYAa~AYaãaYÝYAæ*àA*bàA~@WA
&Ý^3àY~AÅĐËĐÈEĐËGAVæYAĐËĐHEĐË€ËBDA^@ Ý~AŸà^A*ŽÝA¾°~*A~@W&Ý^3àYAV^YAŸæV'3{ÝYDAŽàbÝAÝ^AbÝAbÝA*ŽV*A^@`Ý~AŸà^A*ŽÝA~ÝXàæYA
~@W&Ý^3àYA äV|AWÝA äà^ÝA~*^3æZÝæ*A*ŽVæA*ŽXAÝA¾*ŽÝA¸¾°~*A àæÝÉAPæXÝAV&&^àãÝYDA*ŽÝA^@`Ý~A äV|Aªa&VX*A~@W&Ý^3àYAĐËĐHEĐË€ËÉA
~@W*Ý*a*IDA*ŽÝAàãÝ^V/ÄNÞANTŠA*V^ZÝ*Aa~AVAFËA&Ý^XÝæ*A^ÝY@X*aàæAàĬAÈÎÎĒAÝ äa~aàæ~AW|AĐË€ĔĔAÑ^ÝYAV/`àXV*aàæAàĬAŁP_BAV/`àbVæXÝ~Aa~A
WV~ÝYAàæA^ÝY@XÝYAWÝæXŽäV^âAāV'@Ý~AbŽAŽVãÝAWÝÝæA&@W³a~ŽÝYAæA*ŽÝAÅa@V^*ÝAÅ¥BĒĐÈAVæYAŽa~*å^3XV′AÝãY~Aà¾A&AY@X*aàæA
ĬŶàäAĐËÈFEĐËÈÍÉAK/`àXV*aàæ~A*àAæ¥aãaY@V'Aææ~*V′V*aàæ~AäV|AWÝAVYå@~*ÝYAVææ@V′`|A*àA^ŶŶ´ÝAVæ*AæXAXŶV~YAVæ*AæXAŶŶYŶXAÝV~YAVæ*A¥XŶYŶAV¥A¥XŶYAV¥A¥XŶXŶYAVŶYAV¥A¥XŶYXŶV~Ý~AæA

/4:+84':/54'2:8'*+

ÞÉA ŠÉA ŠŤÝÝA Xàæ¹æ@Ý~A *àA ŸVXÝA a ä &à^*A Xà ä &Ý*a¹aàæDA ä @XŽA àŸA bŽaXŽA a~A @æŸVa^/ A *^VYÝYA VæYA Ÿ@ÝÝYA W | A ä V~~aãÝA Z′àWVA ~*ÝÝA àãÝ^XV&VXa* | DAX@^^Ýæ*′ | AÝ~*a ä V*ÝYA*àAWÝAàãÝMH I FA ä a′′aàæAæÝ*A*àæ~A&Ý^A | ÝV^ ~ ä à^ÝA*ŽVæA~a\A*a ä Ý~A*ŽÝAÝæ*a^ÝA ÞÉŠÉA~*ÝÝA ä V^âÝ*AVæYA àãÝ^A* b Ýæ* | A*a ä Ý~A*à*VA ÞÉŠÉA~*ÝÝA ä &à^*~ÉA TŽÝ~ÝA a ä &à^*~EA TŽÝ~ÝA a ä &à^*~A VæYA àãÝ^XV&VXa* | AæÝZV*aãÝ | Aa a &VX*A *ŽÝA Łà ä &Væ | •~A à&Ý^V*aàæ*aæØY~A*àA ÝVYAÝŸà*A*ŽÝ~ÝAXŽV′ÝæZÝ~A*ŽV*A*ŽV*A*ŽÝAŁà ä &Væ | DAà@^A bà^âÝ^~DA à@^A~*àXâŽà YÝ^~AVæYAà@^AXà@æ*^| •~AæV*aàæV*AVæYAÝXàæà ä aXA~ÝX@^a* | É

K~AàÝAYV*ÝAàŸA*Ža~AĬ½³æZDA&@^~@Væ*A*àAVA~Ý^aÝ~AàŸAQ^Ý~aYÝæ*aVŹAQ^àX´V ä V*aàæAa~@ÝYAææAVXXà^YVæXÝA b*²ŽaŠÝX*aàæAĐ€ĐAàŸA*ŽÝAT^VYÝA
N\&Væ~aàæA KX*A àŸA È Î HĐDA ÞÉŠÉA a ä &à^*~A àŸA XÝ^*VææA ~*ÝÝ′A &^àY@X*~A V^ÝA ~@WáÝX*A *àA VA ĐGA &Ý^XÝæ*A *V^ÿĎA Ý\XÝ&*A a ä &à^*~A åŸA à Ä ĀÈBA
K^ZÝæ*aæVDA L^V {a¹ĎAVæYAŠà@*ŽAÖà^ÝVDA bŽaXŽAV^ÝA~@WáÝX*A*àA^Ý~**aX*aãÝAå@à*V~ÌAĀĐBA*ŽÝAN@^à&ÝVæA ÞæaàæAĀNÞBDAÔV&VæAVæYA*ŽÝA Þæa*ÝYA
ÖæZYà ä AĀÞÖBA*ŽV*A V^ÝA ä Ý '*ÝYA VæYA &à@^ÝYAAæA*ŽÝA NÞĖÔV&VæÈÞÖDA ba*ŽæA å@V^*Ý^ſ | A*V^¾ŸE^V*ÝA å@à*VAĀTS RBA ′a ä a*~ÌAĀ€BA Ł VæVYVA VæYA
ØÝ\aXàDA bŽaXŽAV^ÝAæà*A~@WáÝX*A*àA*V^aŶYAæA Þâ^Væ¥DA*ŽÝA NÞDA bŽaXŽAV^ÝA Ä & *AŸ^à ā A*V^aŶY~A @æ*a´AÔ@æÝA ÈDAÐËÐFÌA VæYA ÅGBAK@~*^V′aVDA
bŽaXŽAV^ÝAæà*A~@WáÝX*A*àA*V^aŶY~DAå@à*V~Aà^NAæAVæ*aE~@^ZÝA NÞDA bŽaXŽAV^ÝAæà*A~@WáÝX*A*àA*V^aŶY~DAå@à*V~Aà^NAWæAVæ*aE~@^ZÝA NÞDA bŽaXŽAV^ÝAæà*A~@WáÝX*A*àA*V^aŶY~DAå@à*V~Aà^NAWæAVæ*aE~@^ZÝA BÝXŽVæ*a ä É

TŽÝA ÞĖŠĖA MÝ&V^* ä Ýæ*A àŸA Łà ä ä Ý^XÝA ĀMPŁBA a~A ä VæVZæZA VA &^àXÝ~~A æA b ŽaXŽA ÞĖŠĖA Xà ä &Væ¾Ý~A ä V | A ^Ýå@Ý~*A VæYÈà^A à&&à~ÝA
*Ý ä &à^V^| A &^àY@X**A Ý\X′@~aàæA ÅŶ^à ä A *ŽÝA ŠÝX*aàæA Đ€ĐA *V¾ŸA VæYA å@à*V~ËA ÞÉA ŠÉA Š*ÝÝ′A à&&à~Ý~A Ý\X′@~aàæA ÅŶA ä ā &à^*ÝYA
&^àY@X*~A *ŽV*A V^ÝA*ŽÝA~V ä ÝA V~DA à^A~@W~*a*@*Ý~AŸà^DA &^àY@X*~A ä Væ@ŸVX*@^ÝYAW | A ÞĒA ŠĒA Š*ÝÝ′Ē PæAK@Z@~*AÐ Í DAÐËЀDAMPŁA &@W′a~ŽÝYA
&^à&à~ÝYA^Ŷãa~aàæ~A*àA*ŽÝAŠÝX*aàæAЀĐA&^àY@X*AÝ\X′@~aàæA&^àXÝ~~A^ŶZ@′V*aàæ~DA ba*ŽA&@W′aXAXà ä ä Ýæ*~AY@ÝAæAPX*àWÝ′Ē

Ø@ '*a& 'ÝA 'ÝZV'AXŽV''ÝæZÝ~A*àA*ŽÝAŠÝX*aàæAĐ€ĐAVX*aàæAXàæ*aæ@ÝAWÝŸà^ÝA*ŽÝAÞÉŠÉAŁà@^*AàŸAÓæ*Ý^æV*aàæV'AT^VYÝAĀŁÓTBAVæYA*ŽÝAÞÉŠÉAŁà@^*A
àŸAK&&ÝV'~AŸà^A*ŽÝAÑÝYÝ^V'AŁa^X@**AĀŁĶÑŁBDA*ŽÝA'V**ÝAA ĎZaXŽAŽV~AXàæ~a~*Ýæ*′ | A^ŶáÝX*ÝYAXàæ~*a*@*aàæV'AVæYA~*V*@*à^|AXŽV''ÝæZÝ~A*àA†ŽÝA
ŠÝX*aàæAĐ€ĐAVX*aàæÉAŠÝãÝ^V'AXŽV''ÝæZÝ~A*àA*ŽÝAŠÝX*aàæAĐ€ĐAVX*aàæAVæYA^Ý*V'aV*aàæA*ŽÝ^Ý*àAXàæ*aæ@ÝAV*A*ŽÝAÚà^YAT^VYÝAP^ZVæa{V*aàæA
ÂÚTPBÉ

ŠaæXÝA a*~A a ä & Ý ä Ýæ*V*aàæA aæA ØV^XŽA ĐËÈ Í DA *ŽÝA ŠÝX*aàæA Đ€ĐA VX*aàæA ŽV~A ~@&&à^*ÝYA *ŽÝA ÞÉŠÉA ~*ÝÝ A aæY@~*^aÝ~A VæYA ÞÉA ŠÉA Š*ÝÝ •~A
aæãÝ~* ä Ýæ*~AaæAVYãVæXÝYA~*ÝÝ A&^àY@X*aàæAXV&VWa'a*aÝ~DA*ÝXŽæà`àZ |DAVæYA~âa'´~DA~*^ÝæZ*ŽÝæaæZAÞÉŠÉAæV*aàæV′AVæYAÝXàæà ä aXA~ÝX@^a* |ÉA
TŽÝAŁà ä &Væ |AXàæ*aæ@Ý~A*àAVX*aãÝ′ |AYÝŸÝæYA*ŽÝAŠÝX*aàæAĐ€ĐAVX*aàæÉ

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4+= '))5;4:/4-9:'4*'8*9
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ŠÝÝAÕà*Ý~AĐAVæYA€A*àA*ŽÝAŁàæYÝæ~ÝYAŁàæ~à'aYV*ÝYAÑæVæXæV'AŠ*V*ÝäÝæ*~AæAQV^*AÓAÓ*Ýä AÈAàŸA*Žæ~AR@V^*Ý^/[ASÝ&à^*AàæAÑà^ä AÈËERÉ

Ñà^A å@Væ³a*V*aāÝA VæYA å@V′a*V*aãÝA Ya~X´à~@^Ý~A VWà@*A ä V^âÝ*A ^a~âDA ~ÝÝA Ů*Ý ä A I KA cR@Væ*a*V*aãÝA VæYA R@V′a*V*aãÝA Ma~X´à~@^Ý~A KWà@*A ØV^âÝ*ASa~â*AsæA\@@Væ*a*V*aãÝA VæYA R@V′a*V*aãÝA Ma~X´à~@^Ý~A KWà@*A ØV^âÝ*ASa~â*AsæA\@^AKææ@V´ASÝ&à^*AàæA\Ñà^ ä AÈËEÖAŸà^A*ŽÝA¾a~XV´A | ÝV^AÝæYÝYAMÝXÝ ä WÝ^A€ÈDAÐËÐÐÐA*ŽÝ^ÝAb Ý^ŶAæàA ä V*Ý^aV´AXŽVæZÝ~AsæA ÞÉAŠÉAŠ*ÝÝ ¼~AÝ \&à~@^ÝA*àA ä V^âŶ*A^a~âAŸ^à a AMÝXÝ ä WÝ^A€ÈDAÐËÐÐĒ

/SDL ž/)54:8529 '4*685)+*;8+9

).'4-+9/4/4:+84'2)54:8525<+8,/4'4)/'28+658:/4-

6'8: /// 5:.+8/4,583':/54

/SDL Ł/2+-'2685)++*/4-9

-+4+8'22/:/-':/54

PæAMÝXÝ ä WÝ^ADFDAÐËÈ Í DA ÞÉAŠÉAŠ*ÝÝ ¼~AŁ 'V2^*àæAQ'Væ*AÝ\&Ý?aYÁVAŸæXÝYAVAŸa*ŽDAVŸÝX*aæZA&à^*aàæ~AàŸA*ŽÝAŸVXá´a* | Aaæãá´ãÝYAaæAYÝ~@ 'Ŷ@^a{V*aàæA àŸh*ŽÝhXàâŶkàãÝæhZV~hZÝæÝ^V*ÝYhY@^®æZh*ŽÝhXàâ®æZh&^àXÝ~~ÉhÚ\$*ŽÝhYÝ~@´Ŷ@^\${V*®àæh&^àXÝ~~hàŸhà\khà\khà&Y^V*a&ehV~hV\\$^@´*hàŸh*ŽÝh &^à ä &*´| A æà*s/is/YYAKŁŒMDA b Ž3XŽAŽV~A^YZ@´V*à^|A i@^s~Y2X*sàæAYà^A*ŽYAT3*´YAUA&Y^ ä 3*DA VæYA @&YV*YYA*ŽYAKŁŒMA^YZ@´V^´|A àæAYYïYà^*~A*àA äa*aZV*ÝA Væ|A &à*Ýæ*aV′A Ýæãa^àæä Ýæ*V′A a ä &VX*~A @æ*a′A *ŽÝA YÝ~@Ý@^a{V*aàæA &^àXÝ~~A bV~A ^Ý*@^æÝYA *àA æà^ ä V′A à&Ý^V*aàæ-ÉA PŸA *ŽÝA V&&^à\aäV*Y´|AÐDFËËAŽà@^~AWÝ*bÝÝæA*ŽÝAYV*ÝAàЙA*ŽÝAŸaYAK&^a′AFDAÐËÈÎDAbŽÝæA*ŽÝAŁàä&Væ|A^Ý~@äÝYAYÝ~@Ÿ@^a{V*ààæDA*ŽÝ^ÁA bÝnÝA*ÝæAæ*Ý^äa**Ýæ*AŽà@^~hbŽÝnÝAVãÝnVZÝAŠPpAÝäa~~iàæ~AÝ\XÝÝYÝYA*ŽÝAŽà@^´|AÕKKRŠAŸà^AŠPpAV*A*ŽÝAK´´ÝZŽÝæ|AŁà@æ*|A^ÝZiàæV´A Va^Aå@V´a*|Aäàxx*à^~A´aXV*YYAxxAÔaWY^*|AVxYAÕà^*ŽAL^VYYàXâAWà^à@ZŽ~DAbŽaXŽAV^ÝA&YV^AÞÉAŠÉAŠ*ÝY´/A~AØàxAUV´´Y|AÚà^â~AÑVXá´a*aY~XÉAPxA $K\&^{a} hD \hat{I} DhD \ddot{E} \hat{E} \hat{I} DhQ Y \& \& N \& \tilde{a} a' \lambda \& \ddot{a} Y \&^{a} hV \& YhL Y V \& hKa'^hL \lambda @ \& Xa' DhW \lambda^{a} ZhY \& \tilde{a} a' \lambda \& \ddot{a} Y \&^{a} V' Dh \& \lambda \& EZ \lambda \tilde{a} Y' \& \ddot{a} Y \&^{a} V' A \lambda^{a} ZV \& a' A \lambda^{a} ZV \& a$ aæAÑÝYÝ^V^¼Łà®^*Aa&A*ŽÝAÚÝ~*Ý^æAMa~*^3X*AàŸAQÝææ~I´ãVæ3VÉATŽÝAKŁŒMAЬV~A~®W~Ýå®Ýæ*IAZ^Væ*ÝYAaæ*Ý^ãÝæà^A~*V*®~ÉAAŁà´´ÝX*ããÝ´IA*ŽÝA &V^*aÝ~A~ÝÝâA æá@æX*aãÝA^ÝaÝiA VæYA XaãaíA &ÝæV'*aÝ~A^ÝZV^YæZA*ŽÝA V´ÝZÝYA QÝ^äa*A ãaà´V*aàæ~A Ÿà´´à ÞæZA*ŽÝA ŸaÝÉA Ma~XàãÝ^IA ŽV~A XàæX´@YÝYÉATŽÝAXà@^*AYÝæÝYA*ŽÝA&V^*aÝ~₦^Ý~&ÝX*aãÝAØà*aàæ~AŸà^AŠ@ääV^IAÔ@YZäÝæ*ÉAKAæàæEå@^IA*^aV´AbŽaXŽAbV~A~XŽÝY@´ÝYA*àA*VâÝA &`VXÝAæAK&^a´AVæYAØVIAàŸAÐËЀAa~AWÝæZAŽÝ´YAaæAVWÝIVæXÝAV~A*ŽÝA&V^*aÝ~A^ÝVXŽÝYAVA*Ýæ*V*aãÝA~Ý**´Ý ä Ýæ*AVZ^ÝÝ ä Ýæ*DA~aZæÝYAVA*Ý^ ä Á ~ŽÝÝ*DA VæYA VYãa~ÝYA*ŽÝA Łà@^*A VXXà^Y&zZ´IÉA TŽÝA &V^*AÝ ~A V^ÝA b à^âxæZA *àA Y^VÝ*A VA Łàæ~Ýæ*A MÝX^ÝÝA *àA ä Ý ä à^&V´2 ſÝA *ŽÝA ~Ý**Ý a Ýæ*A *Ý^ä~ÉAŠÝ&V^V*Ý´|DAVAX`V~~AVX*aàæAŽV~AWÝÝœA∜a´ÝYAæA*ŽÝAŁà@^*AàÝAŁàäääàæAQ`ÝV~AàŸAK´´ÝZŽÝæ|AŁà@æ*|AàæAWÝŽV´ŶAàŸAV&&^à\aäV*Ý´|A ÈĐ€DËËËA&Ý^~àæ~kbŽàkX´Va ä k⁺ŽV*k⁺ŽÝka ä &VX*~kľ^à ä k†ŽYkľa^ÝkX^ÝV*ÝYkVkæ@a~VæXÝkVæYk~ÝÝâkYV ä VZÝ~kľà^k à~~kàŸk@~ÝkVæYkÝæåà | ä Ýæ*kàľk &^à&Ý^^aÝ~ÉATŽV*AVX*aàæAŽV~AWÝÝæAXÝ^*aŸaÝYAV~AVAX´V~~AVX*aàæAVæYA*ŽÝAŁàä&VæYA*ŽÝAŁàä&AVæYA*ŽÝA£à;

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TŽÝAŸà´´à baæZAā~AVA~@ ä ä V^|A àŸAŠÝ&^àXÝY9æZ~A àŸA ÞĒAŠĒAŠ*ÝÝ´A*ŽV*A bÝ^ÝA&ÝæYaæZA à^AXàæ*Ý ä & V*ÝYAV~A àŸAŠÝ&*Ý ä WÝ^A€ĒDAÐĒĐ€DA @æYÝ^AŸÝYŶVV*AVæYA~*V*ÝAÝæãa^àæ ä Ýæ*V'A Vb~DAVæYA bŽaXŽAÞĒAŠĖĀŠ*ÝÝ′A^ÝV~àæVW′|AWÝ′aÝãÝ~A ä V|A^Ý~@ **Aæ&A ä àæÝ*V^|A~VæX*aàæ~AàŸAV*A

'ÝV~*A ÂÈA ä a´′aàæA Ā*ŽÝA *Ž^Ý~Žà´YA XŽà~ÝæA W|A ÞĒAŠĒAŠ*ÝÝ′A V~A &Ý^ ä a**ÝYA W|A Ô*Ý ä A ÈË€A ÀŸA SÝZ@*V*aæA ŠEÖA &^à ä @ ´ZV*ÝYA @æYÝ^A *ŽÝA

ŠÝX@^a*sÝ~AN\XŽVæZÝAKX*AàŸAÈ΀FDA V~AV ä ÝæYÝYBĒAÔæŸà^ ä V*aàæAVWà@*A~&ÝXaŸaXA~a*Ý~A bŽÝAŶA ÞĒAŠĒAŠ*ÝÝ′Aa~Aà^AŽV~AWÝÝæAÝæZVZÝYAæA

~aZæaŸaXVæ*A XÝVæA @&A à^A ^Ý ä ÝYaV*aàæA VX*aãa*sÝ~A a~A V′~àA ~@ ä ä V^a{ÝYA WÝ à bÉA N\XÝ&*A V~A YÝ~X^aWÝYA ŽÝ^ÝæDA a*A æà*A &à~~aW´ÝA *àA

VXX@^V*Ý [A&^ÝYaX*A*ŽÝA@ *a ä V*ÝAà@*Xà ä ÝAàŸA*ŽÝ~ÝA ä V**Ý^-Ē

1/!1Ł !(/(',\$5,10 ",5(4

Ł 'Va ä ~ A @æYÝ^A*ŽÝA Ł à ä &^ÝŽÝæ~aãÝA Næãa²àæ ä Ýæ*V'A SÝ~&àæ~ÝDA Ł à ä &Ýæ~V*aàæA VæYA ÒaVWa'a* | A KX*AĀŁNSŁÒKBA ŽVãÝA WÝÝæA^Va~ÝYA ba*ŽA ^Ý~&ÝX*A*àA*ŽÝAX'ÝVæ@&Aà¼ÃV³à@~A bV~*ÝAYa~&à~V'AVæYAà*ŽÝ^A~a*Ý~ÉA ÞæYÝ^AŁNSŁÒKDA&à*Ýæ*aV'' | A^Ý~&àæ~aW'ÝA&V^*à^A-AĀÝVXŽDAVAQSQBA

Ÿà^AVA~a*ÝAæX'@YÝAX@^Ýæ*A à bæÝ^~A VæYA à&Ý^V*à^~DA &V~*Aà bæÝ^~A VæYA à&Ý^V*à^A-AV*A*ŽÝA*a ä ÝAàŸAVa~&à~V'DA&Ý^~àæ~A b ŽàA V^V*ba^A

Ya~&à~V'AàŸAVAŽV {V^Yà@~A~@W~*VæXÝAV*AVAVAVAVAXAVAVAXAVAVAXAVAXAVAXAVA*AVÆYA&Ý^~àæ~A b ŽàA*^Væ~&à^YÝAVAŽV {V^Yà@~A~@W~*VæXÝA*àAVA~a*ÝÉAŁNSŁÒKAa ä &à~Ý~A

~*^3X*A VæYA åàææ*A VæYA~ÝãÝ^V'A 'aVWa'a*a¥ / EL LÝXV@~ÝA àŸA ãO-A a*ÝDA *ŽÝA V a WaZ@a* | A à¾A *ŽÝA ^ÝZ@'V*aæ~DA *ŽÝA YaïŶ3X@'Y* | A à¾A

aYÝæ*a* | aæZA *ŽÝA ^Ý~&àæ~aW'ÝA &V^*aÝ~A ¾à^A Væ | A &V^*aX@'VVA ~a*ÝDA *ŽÝA Xà ä & Ý\a* | A à¾A YÝ*Ý^A a æææZA *ŽÝA ^Ý Væ@&AXà~*~AVæYA*ŽÝA*a ä ÝYaV*aàæA*ÝXŽæaå@Ý~DAVæYA*ŽÝA V a à@æ*AåÄAYV a VZÝ~AVæYAXÝA &VA*A*ŽÝA & a *AYÝ~a*OV¥A*ŽÝA*a ä ÝYaV*aàæA*ÝXŽæaå@Ý~DAVæYA*ŽÝA V a à@æ*AåÄAYV a VZÝ~AVæYAXÝA*a**~A & V | AWÝAæX@^Y^A&AV^Y\A@æVYÝA&AÝV~àæVW' | AÝ~*a a V*ÝAÞÉAŠÉAŠ*ÝÝ '*~A@'*a a V*ÝA'aVWa'a*a'~A@æYÝ~AŁNSŁÒKÉ

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TŽÝAŸà^ä Ÿ^AÞÉAŠÉAŠ*ÝÝ′AM@¹@*ŽAÚà^â~A~a*ÝA bV~A&`VXÝYAàæA*ŽÝAÕV*aàæV'AQ^aà^a*a*2Ý ~AÒa~*A@æYÝ^AŁNSŁÒKAæAÈÎÍ€AVæYAàæA*ŽÝAŠ*V*ÝAàïA
ØææÝ~à*V•~AŠ@&Ý^¾@æYA ′a~*A ææAÈÎÍFÉAÒaVWa′a* | A Ÿà^A Ýæãa^àæ ä Ýæ*V′A ^Ý ä ÝY₂V*aàæA V*A *ŽÝA ~a*ÝA a~A ZàãÝ^æÝYA W | A VA SÝ~&àæ~ÝA P^YÝ^A W | A VA SÝ~&àæ~ÝA P^YÝ^A W | A VA SÝ~&àæ~ÝA P^YÝA W | A VA SÝ~&àæ~ÝA P^YÝA W | A VA SÉAŠÉAŠ*ÝÝ A BæA*ŽÍA*ŽÝA P^YA W | A VA SÉAŠÉAŠ*ÝÝ A BæA*ŽÍA*ŽÝA PABA*ŽÍA*ŽÝA PÉŠÉA NQKA SÝZaàæAGA*àA VYY^Ý~~AXàæ*V ä ææV*ÝYA~ÝYa ä Ýæ*~AæA*ŽÝAŠÉAÒà@a~A SãÃÝ^M N~*@V^|A VæYA ~Ý3ÝA PÉAŠÉAŠ*ÝÝ A à&Ý×XAæ*VÄ a ævYÝYA~ÝYa ä Ýæ*A*àA*ŽÝA PÉŠÉA NQKA SÝZA*ŽÝA PÉAŠÉA ŠÝÝY A PæA*A*ŽÝA PÉAŠÉA ŠÝÝY A BæA*A*ŽÝA PÁBA*ŽÝA PÁBA*ŽÁA BÆYÝA PÁBA*ŽÁA BÆA*ŽÝA PÁBA*ŽÝA BÁAŽÝA PÁBA*ŽÝA BÁAŽÝA PÁBA*ŽÝA PÁBA*ŽÝA BÁAŽÝA PÁBA*ŽÝA BÁAŽÝA PÁBA*ŽÝA PÁBA*ŽÝA BÁAŽÝA PÁBA*ŽÝA BÁAŽÝA PÁBA*ŽÝA BÁAŽÝA PÁBA*ŽÁA BÁA*ŽÝA PÁBA*ŽÁA BÁA*ŽÝA PÁBA*ŽÝA BÁAŽÝA PÁBA*ŽÁA BÁA*ŽÝA PÁBA*ŽÁA BÁAŽÝA PÁBA*ŽÁA BÁAŽÁA PÝABA*ŽÁA BÁA*ŽÁA PÁBA*ŽÁA BÁA*ŽÁA PÁBA*ŽÁA BÁAŽÁA PÁBA*ŽÁA BÁA*ŽÁA PÁBA*ŽÁA BÁA*ŽÁA BÁA*ŽÁA PÝABA*ŽÁA BÁA*ŽÁA PÝABA*ŽÁA BÁA*ŽÁA PÝABA*ŽÁA BÁA*ŽÁA PÁBA*ŽÁA BÁA*ŽÁA PÝABA*ŽÁA BÁA*ŽÁA PÝABA*ŽÁA PÝABA*ŽÁA BÁA*ŽÁA PÝABA*ŽÁA PÝABA*ŽÁA BÁA*ŽÁA PÝABA*ŽÁA BÁA*ŽÁA PÁBA*ŽÁA PÁABA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA PÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA PÁABA*ŽÁA PÁABÆA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA BÁA*ŽÁA PÁA*ŽÁA PÁA*ŽÁA BÁA*

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 $\tilde{\text{Na}}^{\text{A}}\ddot{\text{a}}\dot{\text{a}}^{\text{A}}\dot{\text{b}}\dot{\text{b}}\dot{\text{b}}\dot{\text{c}}^{\text{A}}\ddot{\text{c}}^{\text{A}}\dot{\text{c}}}\dot{\text{c}}^{\text{A}}\dot{\text{c}}^{\text{A}}\dot{\text{c}}^{\text{A}}\dot{\text{c}}^{\text{A}}\dot{\text{c}}^{\text{A}}\dot{\text{c}}^{\text{A}}\dot{\text{c}}^{\text{A}}\dot{\text{c}}^{\text{A}}\dot{\text{c}}^{\text{A}}\dot{\text{c}}^{\text{A}}\dot{\text{c}}}^{\text{A}}\dot{\text{c}}^{\text{A}}\dot{\text{$

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PæAPX*à₩Ý^AĐ€DĀÈ Î Î Í DÑ*ŽÝAÞÉŠĖANQKAa~@ÝYAVĀŸæV'ĀKY ä ææa~*^V*āāÝAP^YÝ^AàæAŁàæ~Ýæ*ĀP^YÝ^BĀVYY^Ý~~ææZĀŁà^ÝX*āāÝAKX*āàæĀĬà^ĀŠà aYĀ
ÚV~*ÝA ØVæVZÝ ä Ýæ*Ā Þæa*~ĀŠÚ ØÞBĀ *Ž^à@ZŽà@*Ā OV^|Ā Ú à^â~ĖĀ TŽa~Ā P^YÝ^Ā બ ÞĒĀ ŠĒĀ Š*ÝÝ'Ā *àA &Ý^Ÿà^ā A VæA SŁSKĀ ÑVXa′a* |Ā
ÓæāÝ~*āZV*āàæÐĀ VĀ Łà^ÝX*āāÝĀ ØÝV~@^Ý~Ā Š*@Y |Ā VæYĀ Łà^ÝX*āāÝĀ ØÝV~@^ÝA Ó ä & Ý á Ýæ*V*āàæĒĀ NāV'@V*ààæ~Ā VዏŶĀ @æYÝ^ЬV |Ā V*Ā ~ā Ā
Z^à@æY b V*Ý^ĀVŶÝV~ĀAàæĀ*ŽÝĀÝV~ā*àæÝĀ ŽÝĀŶVXá′a* |ĒĀKĀ^Ý ä ÝYaV'ĀZ^à@æY b V*Ý^Ā*^ÝV* ā Ýæ*A~|~*Ý ä ĀZV~ĀWÝÝæĀà&Ý^V*āæZĀV*ĀàæŶĀ\àÄĀ*ŽÝĀ-ā\Ā
V^ÝV~Ā~æXÝĀĐĒĐĒĒĀKæĀĠæ*ݰa ä ĀŠ*VWa′a{V*aæAĀØÝV~@^ÝĀ bà^āĀ& VæĀ b V~Ā*AŶĀ*Ā*Ā PĀ ŠĀ VÆĀ BĒŠĒĀNQĶĀŸĀAĀVĀ~ŽÝĀ~ĀVĀ
Xàæ*^VX*à^Āa~Ā Xà ä & Ý*æZĀ ææ~*V'V*āàæĀ VæYĀ ~*V^¥B@&Ā àĬĀ*ŽÝĀ^Ŷ ā ÝYaV'Ā~|~*Ý ā ĒĀ Þæ*ā'Ā*ŽÝĀ^Ý ā VæææZĀ QŽV~ÝĀĠĀ bà^āĀ VæYĀ QŽV~ÝĀĠĀ Ā
&*àāŶ~*aZV*āàæ~ĀV^ŶĀ Xà ā & Ý*YYDĀ*Āā~Ā æà*Ā &à~~aWŶĀ*āĀ V~~A bŽVĀ VY3*āāŶĀ KX*āàæĀ
&^àaiŶX*~Ā V*Ā OV^|Ā Ú à^â~Ē ӿ *à*V'DĀ *ŽÝĀ VXX®ÝYĀ 'ā VæææZĀXà~Ā~ĒĀ
ŠÝ&*Ý ā WŶ^ĀĒĒDĀĒÐĒÐĒÐĀWV~ÝĀÀæĀā@^ĀX@^*Ā*ĎŶĀ ~ā ā V*ÝĀĀĀæā bæĀ^Ŷ ā VæææZĀXà~*ēĒĀ

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ĺœλΝΎΨΛ@V^ | λĐËĐËDN ÞÉAŠÉAŠ*ÝÝ 'A&@ΛΧŽV~ÝYA*ŽÝAΛÝ Ä VæææZAGËA&ÝΛΧÝæ*hææ*ÝΛÝ~*hææA ÞŠŠEQ PŠŁ PAĺœY@~*^aý~DAVAŸÀ^ À ÝΛháàææ*hãÝæ*@ΛÝA*ŽV*h
a~A 'ÀXV*ÝYA ææA Qa**~W@^ZDA Ł V'aŸÀ^æaVA WÝ* b ÝÝæA ~@W~aYaV^aÝ~A ÀŸA ÞÉA ŠÉA Š*ÝÝ'A VæYA Q PŠŁ PDA æà bA âæà bæA V~A ÞŠŠEÞQĺDA ÒÒŁÉA Q^aÀ^A *ÀA
Ÿà^ Ä V*aàæA ÀŸA *ŽÝA iàaæ*h ÃÝæ*@^YDA ÞQĺÁ-A ŸVXa′a*aÝ~A b Ý^ÝA &^Ýāaà@~′ | A àbæÝYA VæYA à&Ý^VÝA ~à ´Ý′ | A W | A ÞÉA ŠÉA Š*ÝÝ'DA b ŽaXŽA V~~@ Ä ÝYA
^Ý~&àæ~aWa′a* | A ŸÀ^A *ŽÝA ¼\a=*æZA Ýæãa^àæ Ä Yæ*V'A Xàæ¥a*aæ@Ý~A *àA ä àæa*à^A* *ŽÝA a ä &VX*~A àŸA *ŽÝA ^Ý ä ÝYaV'A &′VæA
a ä & ´Ý Ä Ýæ*ÝYAæAÐËÈHA*àAVYY^Ý~~AZ^à@æYbV*ÝAB ä &VX*~AĬŶà ä A*^aXŽ'à^àY*Ž | ´ÝæÝAV*AŠ Ú Ø ÞAFÉANÃV′@V*aàæ~AXàæ*æ@ŶÁŸĀ^A*ŽÝAŠ Ú Ø Þ~DA
âæà bæAV~A*ŽÝAŐà^*ŽÝ^æA L à@æYV^|AO^à@&DAVæYA*Aa~Á'ââÝ' | A*ŽV*AXà^^YX*aāÝA Ä ÝV~@^Ý~Aba'´AWÝAYÅ @a^YYDAW@*ha*Aa~Aæà*A&à~~aW´YAV*A*ā Œ YA*YĬæ¥ÁNAAXAæ¥VAAÁYA**A Ä VæYAA\Á`A Ä V | AWYAY®@^YYAW | A*ŽÝAŁ V'áĬÀ^ææVAMY&V^* ä Ýæ*AÀĬATà\aXAŠ@W~*VæXÝ~AŁ àæ*^à 'ÊAK~A~@XŽDA
*ŽYŶYA ŽV~A WÝÝæA æàA ä V*Ý^aV´A ZŽVÆZÝA ææA*ŽÝA ~*V*@~A À¶A*ŽÝA &^àáÝX*A Y@^aæZA*ŽYA ææZA*ŽYA ææ*ZA ÝæYYYA ŠÝ&*Ý ä WÝ^A €ËDA ĐËĐ€

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KAXàæ~Ýæ*AYÝX^ÝÁ b V~A~aZæÝYAW | A ÞÉAŠÉAŠ*ÝÝ ĎA*ŽÝA ÞÉŠÁNQKAVæYA*ŽÝA ÞÉŠÉAMÝ&V^* ä Ýæ*AàŸhÔ@~*aXÝA VæYAÑaÝYA ba*ŽÁ*ŽÝA Þæ*ÝYAŠ*V*Ý~A

Ma~*^aX*A Łà@^*A Ýà^A *ŽÝA Õà^*ŽÝ^æh Ma~*^aX*h àŸA K`VWV ä VA ĀÞæ*ÝYA Š*V*Ý~A àŸA K ä Ý^aXVA ãÉA ÞŠÛA Łà^&à^V*aàæhBa aæh MÝXÝ ä WÝ^A ÈÎÎ Î IÉA Óæh
VXXà^YVæXÝA ba*ŽÁ*ŽÝAXàæ~Ýæ*AYÝX^ÝYÐA ÞÉAŠÉAŠ*ÝÝ ÁBæ*aV*ÝYAVA SŁSKAXà^ÝX*aãYhVX*aàæh&^àZ^V ä AV*A*ŽÝAÑVavÑaÝYA Ú à^â~kŸV*YA Ú à^â~kŸV*YAVA SŁSKAXà^ÝX*aãYhVX*aàæh&^àZ^V ä AV*A*ŽÝAÑVavÑaÝYA Ú à^â~kŸVA®YA ® Yœ*AàŸhNæãa^àæ ä Ýæ*V'AØVæVZÝ ä Ýæ*hÅKMNØBÐA ba*ŽA*ŽÝAV&&^àãV/AòÅ**ŽÝAÞÉŠÉANQKDAV~~@ ä ÝA&^a ä V^ | A^Ý~&àæ~aWa´a* | A
Ŷà^A^ÝZ®`V*aàæhVæYAàãáÝ^~aZŽ*hàŸh*ŽÝASŁSKAXà^ÝX*aãÝAVX*aàæh&^àZ^V ä AV*hÑVavÑaÝYYA Ú à^â~ÉAŁà^ŶY*aãÝAØÝV~@^ÝÅÖ a &´Ý ä Ýæ*V*aàæhQ`Væ~A
ĀŁØÓQ~BAŽVãÝAWÝÝæh~@W ä a**ÝYA*àhVæYAV&&^àãYAW | AKMNØAÑà^A*ŽÝA 'V~*A*bàhV^ÝV~hàæh~a*ÝAbŽÝA^YA*àhVæYA~ŶYa ā Ýæ*~AV^ÝA
^Ýå@a^ÝYA *àh WÝA VYY^Ý~~YÉA Q`Væ~A V^ÝA WÝæZA ¾æV′a {ÝYA ¾à^A Xàæ*^VX*aæZA *ŽÝA bà^âh^*ŽÝA Y*aā V*ÝYA^Ý ā VæææZA Nà~*A àÄA^¥ a*ÄNAŶ ä ÝYaV*aàæh V*Å*ŽÝA
~a*ÝÉ

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ÓœA PX*àWÝ^A ĐËÈGDA O^Væa*ÝA Ła* | A Ú à^â~A ^ÝXÝaãÝYA VA Uaà ´V*aàæA Õà*aXÝA ¾^à a A *ŽÝA Ó ´´aæàa~A Næãa^àæ a Ýæ*V´A Q^à*ÝX*aàæA KZÝæX | A ĀÓNQKBA aæA b ŽaXŽA*ŽÝAÓNQKAV´´ÝZÝ~A*ŽV*A ÞÉA ŠÉAŠ*ÝÝÁ ãaà 'V*a'YÁ*à a a ~aàæA ía a a*~A ¾à^Aæa*^àZÝæA à \aYÝ~AÃÕ P\BA VæYA ãà `V*a ÝA à^ZVæaXAX à a &à@æY~A ¾à a A *ŽÝA LV~aXA P\|ZÝæA Ñ@^æVXÝA NÝX*à~*V*aXA Q^ÝXa&a*V*à^A Š*VXâÉA ÓœA VYYa*aàæDA *ŽÝA ÓNQKA V´´ÝZÝ~A*ŽV*A ÞÉA ŠÉA Š*ÝÝ´A Y\XÝYÝYÝA a*~A æV*@^V/AZV~A @~VZÝA ía a a*AV*A*A ŁàOÝæÝ^V*aàæA Làa ÝÝA ÞÉA ŠÉAŠ*ÝÝ´A^Ŷ~&àæYÝYA*àA*ŽÝAæà*aXÝA VæYAàæAÔ@´|AĐÈDÆĐ€DA^ÝXÝaãÝYAVAYÝæaV′A
¾^à a A*ŽÝÁÔNQKÉA PæAŠÝ&*Ý a WÝ^AÈÈDAĐĒĐ€DAÞÉÐ\$ÉAŠÉĀŠ*ÝÝ´A~@W a a**ÝYAVAŶÝ~&àæYÁXæ yā a a Ýæ*~DAVæYA^Ý a Væ~AææA\$æA\$a~A @~~aàæAba*ŽÁÔNQKÉ

K*Žà@ZŽAYa~X@~~ààæ~A ba*ŽÅÔNQKA^ÝZV^YaæZA*ŽÝÅŸà^ÝZàaæZAV″ÝZÝYAãaà~XV^ÝA àæZàaæZAVæYA*ŽÝA^^ć~à´@*aàæA àŸA*ŽÝ~ÝA ä V**Ý^~Aa~A @æXÝ^*VaæAV*A*Ža~A*a ä ÝDA*Aa~Aæà*AVæ*aXa&V*ÝYA*ŽV*A*ŽÝAYÝ~@^*AàŸA*Žà~ÝAYa~X@~~aàæ~Aba″AWÝA ä V*Ý^aV/A*àAÞÉAŠÉAŠ*ÝÝ′É

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AMENDED AND RESTATED CREDIT AGREEMENT

December ____ , 2022

among

EXPLORATORY VENTURES, LLC

as Borrower

UNITED STATES STEEL CORPORATION

as Parent Guarantor

Arranged by

KFW IPEX-BANK GMBH

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AMENDED AND

Eligible Project Costs and (ii) 100% of the OeKB Guarantee Premium and (b) commercial loan commitments not to exceed the Down Payment; and

WHEREAS, in order to induce the Lenders to continue such covered loan commitments, (i) the OeKB Guarantor has affirmed its continued guarantee of the covered obligations and (ii) the Parent Guarantor has agreed to guarantee the Obligations; and

WHEREAS, it is the intent of the parties hereto that this Agreement not constitute a novation of the obligations and liabilities existing under the Original Credit Agreement or evidence payment of all or any of such obligations and liabilities, that this Agreement amend and restate in its entirety the Original Credit Agreement and continue any Loans and Commitments under the Original Credit Agreement, as so amended and restated, and that from and after the Amendment and Restatement Effective Date the Original Credit Agreement be of no further force or effect except as to evidence the incurrence of the obligations of the Borrower thereunder and as otherwise set forth hereunder;

NOW, THEREFORE, THIS AGREEMENT WITNESSES that, in consideration of the covenants and agreements herein contained and for other good and valuable

"Amended and Restated IPEX Fee Letter" means the Amended and Restated IPEX Fee Letter, dated on or around the date of the Amendment and Restatement Effective Date, between the Borrower and KfW IPEX-Bank.the

rates and other items which do not constitute payments for property rights) during the remaining portion of the base term of the lease included in such transaction.

"Available Tenor" means, as of any date of determination and with respect to the then-current Benchmark, as applicable, (x) if such Benchmark is a term rate, any tenor for such Benchmark (or

clause (c) and even if any Available Tenor of such Benchmark (or such component thereof) continues to be provided on such date.

For the avoidance of doubt, the "Benchmark Replacement Date" will be deemed to have occurred in the case of clause (a) or (b) with respect to any Benchmark upon the occurrence of the applicable event or events set forth therein with respect to all then-current Available Tenors of such Benchmark (or the published component used in the calculation thereof).

"Benchmark Transition Event" means the occurrence of one or more of the following events with respect to the then-current Benchmark:

(a) a public statement or publication of information by or on behalf of the administrator of such Benchmark (or the published component used in the calculation thereof) announcing that such administrator has ceased or will cease to provide all Available Tenors of such Benchmark (or such component thereof), permanently or indefinitely; provided that, at the time of such statement or publication, there is no successor

"

- (x) with respect to the Parent Guarantor:
- any "person" (as such term is used in Sections 13(d) and 14(d) of the Exchange Act) is or becomes the "beneficial owner" (as defined in Rules 13d-3 and 13d-5 under the Exchange Act, except that for purposes of this clause (a) such person shall be deemed to have "beneficial ownership" of all shares that any such person has the right to acquire, whether such right is exercisable immediately or only after the passage of time), directly or indirectly, of more than 35% of either the aggregate ordinary voting power or the aggregate equity value represented by the issued and outstanding Equity Interests of the Parent

any other Person or any written notice by any Governmental Body, other than any Tax that does not represent a claim, loss or liability arising from a non-Tax claim.

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being reliable by the Parent Guarantor) by the Parent Guarantor prior to the time as of which "Consolidated Net Tangible Assets" is being determined.

"Contractual Obligation" means, as to any Person, any provision of any security issued by such Person or of any agreement, instrument or undertaking to which such Person is a party or by which it or any of the property owned by it is bound.

"Control" means, in respect of a particular Person, the possession, directly or indirectly, of the power to direct or cause the direction of the management or policies of such Person, whether through the ability to exercise voting power including the ownership of voting securities, by contract or otherwise in respect of both ordinary and extraordinary matters (including reorganization, restructuring and the amendment of any applicable constitutional document). "Controlled"

"Daily Simple SOFR" means, for any day, SOFR, with the conventions for this rate (which will include a lookback) being established by the Facility Agent in accordance with the conventions for this rate selected or recommended by the Relevant Governmental Body for determining "Daily Simple SOFR" for syndicated business loans; <u>provided</u> that if the Facility Agent decides that any such convention is not administratively feasible for the Facility Agent, then the Facility Agent may establish another convention in its reasonable discretion.

"Default" means any event or condition which, upon notice, lapse of time, or both, would constitute an Event of Default.

"**Defaulting Lender**" has the meaning given to it in Section 2.2(a) (*Finance Parties' Rights and Obligations*).

"Down Payment" means an amount equal to 15% of the Eligible Project Costs.

"ECA Agent" has the meaning given to it in the introductory paragraph hereto.

"ECA Mandatory Prepayment Event" means each of the following events or circumstances:

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- "Eligible Local Costs" means any expenditure in respect of Local Costs in the total amount not exceeding the lower of:
- (a) \$48,808,685.84; and
- (b) 23% of the Export Contract Value.
- "Eligible Project Costs" means the amount payable for Eligible Goods and Services and Eligible Local Costs under the Project Equipment Supply Agreement that is eligible for financing under the limits and under the conditions contained in the OeKB Guarantee in the total amount not exceeding \$250,300,953.02.
- "Eligible Project Cost Loan" has the meaning given to it in Section 2.1(a)(i) (Eligible Project Cost Loans).
- "Entitled Person" has the meaning given to it in Section 22.7 (Judgment Currency).
- "Environment" means all or any of the following media:
- (a) air (including, without limitation, air within natural or man-made structures, whether above or below ground);
- (b) water (including, without limitation, territorial, coastal and inland waters, water under or within land and water in drains and sewers);
- (c) land (including, without limitation, land under water); and
- (d) any ecological systems, animals, plants and all other living organisms supported by these media.
- "Environmental Claim" means any action, proceeding, litigation or claim by any Person, or investigation by any Governmental Body, alleging or asserting that the Borrower or its Subsidiaries is in violation of Environmental Law or with respect to any release of, or exposure to, Hazardous Materials.
- "Environmental Law" means any and all laws, rules and regulations, and any lawful Orders of any Governmental Body, in each case as now or hereafter in effect and applicable to the Borrower or any of its Subsidiaries, relating to the protection of the Environment or biodiversity, the effects of the environment on health and safety (including the conditions of the workplace) or otherwise relating to the manufacture, processing, distribution, use, treatment, storage, disposal, transport or handling of Hazardous Materials.

"Environmental Matter" means any:

- (a) release of Hazardous Materials;
- (b) failure to conserve, preserve or protect the Environment or any wildlife supported by the Environment; or

(c) violation of Environmental Law.

"Environmental Permits" means any Authorization required under any Environmental Law for the operation of the business of the Borrower conducted on or from the properties owned or used by the Borrower.

"Equator Principles" means those principles entitled "The Equator Principles June 2013: A financial industry benchmark for determining, assessing and managing environmental and social risk in projects" and developed and adopted by the International Finance Corporation and various other financial institutions available at https://equator-principles.com/.

"Equity Interests" means shares of capital stock, partnership interests, membership interests in a limited liability company, beneficial interests in a trust or other equity ownership interests in a Person, and any warrants, options or other rights entitling the holder thereof to purchase or acquire any such equity interest.

"ERISA" means the Employee Retirement Income Security Act of 1974, as amended.

"ERISA Affiliate" means any trade or business (whether or not incorporated) treated as a single employer or under common control with the Borrower for the purpose of Section 414 of the Code or Section 4001 of ERISA.

"ERISA Event" means (a) the occurrence of a reportable event specified as such in Section 4043 of ERISA or any related regulation, other than an event in relation to which the requirement to give notice of that event is waived by any regulation as in effect on the date of such occurrence with respect to a Plan (other than a Multiemployer Plan), (b) (i) a failure to meet the minimum funding standard with respect to a Plan (other than a Multiemployer Plan) under Section 412 of the Code or Section 302 of ERISA, whether or not there has been any waiver of notice (as referred to in subsection (a) above) or waiver of the minimum funding standard under Section 412 of the Code or Section 302 of ERISA, (ii) the filing pursuant to Section 412(c) of the Code or Section 302(c) of ERISA of an application for a waiver of the minimum funding standard with respect to

- "Exporter's Certificate" means a notice substantially in the form set out in Schedule D (Form of Exporter's Certificate) or in such other form as may be agreed by the Exporter and the Facility Agent.
- "Exporter's Declaration" means a letter of indemnity from the Exporter to the ECA Agent (Exporteurerklärung) with respect to the Project Upgrades.
- "Exporter's Undertaking" means a letter of indemnity ("Rückgarantie (G3)") from the Exporter to the OeKB Guarantor with respect to the Project Upgrades.
- "Facility Agent" has the meaning given to it in the introductory paragraph hereto.
- "Facility Agent's Account" means the account of the Facility Agent at Citibank N.A. New York, SWIFT Number: CITIUS33, Account Holder: KfW, Frankfurt am Main (BIC: KFWIDEFF), Account Number: 10926093, Reference: 8137749064 United States Steel KV29458, or such other account as may be designated by the Facility Agent to the Borrower.
- "FATCA" means Sections 1471 through 1474 of the Code, as of the date of this Agreement (or any amended or successor version that is substantively comparable and not materially more onerous to comply with), any current or future regulations or official interpretations thereof, any

- (f) the Amendment and Restatement Agreement;
- (g) the Assignment and Assumption Agreement;

and all other agreements, instruments and documents from time to time (both before and after the date of this Agreement) designated as such by the Facility Agent and the Borrower.

"Finance Parties" means each Lender and Administrative Party and "Finance Party" means any Lender or Finance Party.

"Financial Statements" means the financial statements delivered on the Amendment and Restatement Effective Date and those required to be delivered pursuant to Section 10.1 (*Reporting Requirements; Notices*).

"First Coil Date" means the date upon which the cold commissioning (i.e. "first coil") at the Mini-Mill2 Project has been achieved, as certified by the Loan Parties.

"First Repayment Date" means the earlier of the date falling six months after the Starting Po-19.1(ep1.8(r)3-1

purchase of	or payment	of) such	Indebtedness	of such	other	Person	(whether	arising	by	virtue (of

evidenced by bonds, debentures, notes or similar instruments, (c) all obligations of such Person on which interest charges are customarily paid (other than obligations where interest is levied only on late or past due amounts), (d) all obligations of such Person under conditional sale or other title retention agreements relating to property acquired by such Person, (e) all obligations of such Person in respect of the deferred purchase price of property or services (excluding current accounts payable incurred in the ordinary course of business), (f) all Indebtedness of others secured by (or for which the holder of such Indebtedness has an existing right, contingent or otherwise, to be secured by) any Lien on property owned or acquired by such Person, whether or not the Indebtedness secured thereby has been assumed, (g) all Guarantees by such Person of Indebtedness of others, (h) all Capital Lease Obligations of such Person, (i) all unpaid obligations, contingent or otherwise, of such Person as an account party in respect of letters of credit and letters of guaranty (other than cash collateralized letters of credit to secure the performance of workers' compensation, unemployment insurance, other social security laws or regulations, bids, trade contracts, leases, environmental and other statutory obligations, surety and appeal bonds, performance bonds and other obligations of a like nature, in each case, obtained in the ordinary course of business), (j) all capital stock of such Person which is required to be redeemed or is redeemable at the option of the holder if certain events or conditions occur or exist or otherwise, and (k) all obligations, contingent or otherwise, of such Person in respect of bankers' acceptances. The Indebtedness of any Person shall include the Indebtedness of any other entity (including any partnership in which such Person is a general partner) to the extent such Person is liable therefor as a result of such Person's ownership interest in or other relationship with such entity, except (i) to the extent that contractual provisions binding on the holder of such Indebtedness provide that such Person is not liable therefor, and (ii) in the case of general partnerships where the interest is held by a Subsidiary with no other significant assets. Notwithstanding the foregoing, the term "Indebtedness" will exclude obligations that are no longer outstanding under the applicable indenture or instruments therefor. Notwithstanding the foregoing, in connection with the purchase by the Borrower or any Subsidiary of any business, the term "Indebtedness" will exclude postclosing payment adjustments to which the seller may become entitled to the extent such payment is not determinable and, to the extent such payment thereafter becomes fixed and determined, the amount is paid when due.

"**Indemnified Party**" has the meaning given to it in Section 7.5(a) (*Indemnities*).

[&]quot;Indemnified Taxes" means (a) Taxes, other than Excluded Taxes, imposed on or with respect to

proprietary or confidential information and all other intellectual property, industrial property and proprietary rights.

"Interest Payment Date" means, subject to Article 5 (*Interest, Interest Periods and Fees*), of this Agreement, the last day of each Interest Period.

"Interest Period" means each period determined in accordance with Article 5 (*Interest, Interest Periods and Fees*) of this Agreement and, in relation to overdue amounts, each period determined in accordance with Section 5.2 (*Default Interest*).

"Interpolated Screen Rate" means the rate (rounded to the same number of decimal places as the two relevant Screen Rates) which results from interpolating on a linear basis between:

(a) "

"Lien" means any Indebtedness secured by a mortgage, security interest, pledge, lien, charge or other similar encumbrance.

"Loan Party" means, collectively, the Borrower and the Parent Guarantor.

"Loans" means loans provided under this Agreement pursuant to Article 2 (Loans).

"Local Costs" means any expenditure in relation to goods or services supplied or rendered or to be supplied or rendered by the Exporter pursuant to the Project Equipment Supply Agreement in the buyer's country. These exclude commissions payable to the Exporter's agent in the buying country.

"Majority Lenders" means, at any time, one or more Lenders holding more than 50% of the Commitments or, if Loans have been made, of the outstanding principal amount of Loans at such time. The "Majority Lenders" of a particular Class of Loans means, at any time, one or more Lenders holding more than 50% of the Commitments of such Class or, if Loans have been made, of the outstanding principal amount of the Loans of such Class at such time.

"Material Adverse Effect" means a material adverse effect on:

- (a) the financial condition, business, properties or results of operations of the Parent Guarantor and its Subsidiaries, taken as a whole, since September 30, 2019;
- (b) the validity, legality or enforceability of any Transaction Documents or the OeKB Guarantee; or
- (c) the rights and remedies of the Facility Agent or Lenders under any of the Transaction Documents.

"Material Indebtedness" means Indebtedness (other than the (a) Loans and (b) Indebtedness owed by the Parent Guarantor or one of its Subsidiaries solely to the Parent Guarantor or the Borrower), or obligations in respect of one of more Hedging Agreements, of any one or more of the Parent Guarantor and its Subsidiaries, in an aggregate principal amount exceeding \$100,000,000 (or the equivalent in other currencies). For purposes of determining Material Indebtedness, the "principal amount" of the obligations of any Person in respect of any Hedging Agreement at any time shall be the maximum aggregate amount (after giving effect to any enforceable netting agreements) that such Person would be required to pay if such Hedging Agreement were terminated at such time.

"Mini-Mill2 Final Acceptance" means an Acceptance Certificate or a Deemed Acceptance Certificate (each as defined in the Project Equipment Supply Agreement).

"Mini-Mill2 Project" means the Borrower's Mini-Mill2 premises located in or around Osceola, Arkansas.

"Moody's" means Moody's Investors Service, Inc.

"Multiemployer Plan" means any multiemployer plan as defined in Section 3(37) of ERISA to which the Borrower or ERISA affiliate thereof is obligated to contribute.

"Notes" means any note issued under Section 2.5(b) (Evidence of Indebtedness).

"Obligations" means all indebtedness, liabilities, indemnities and other obligations owed by the Borrower to any Finance Party hereunder, under any other Finance Document or under the OeKB Guarantee (pursuant to the terms of the Finance Documents), including interest and fees occurring during the pendency of any bankruptcy, insolvency, receivership or other similar proceeding, regardless of whether allowed or allowable in such proceeding whether actual or contingent, direct or indirect, matured or not, now existing or hereafter arising (including any fees or premium payable under the OeKB Guarantee (and in the case of the OeKB Guarantee Premium, only to the extent payable in accordance with Section 5.12(c) (*OeKB Guarantee Premium*)."OECD" means the Organization for Economic Co-operation and Development.

"**OeKB General Terms and Conditions**" means *Allgemeine Geschäftsbedingungen betreffend Garantien für gebundene Finanzkredite (G 3) und Forderungsankäufe (G 9)*, April 1999.

"OeKB Guarantee" means the Guarantee (*Endgültige Deckungszusage*), in form and substance satisfactory to each of the Lenders, to be issued to the Lenders by the OeKB Guarantor in connection with the Covered Loans under this Agreement, such guarantee and the coverage thereunder being subject to the terms and conditions set forth in a final guarantee confirmation, the OeKB General Terms and Conditions, the OeKB Guarantor's general conditions and any other conditions, guidelines or directives whatsoever which are binding on the Covered Lenders in relation to the Covered Loans hereunder.

"

"Original Closing Date" means February 19, 2020.

"Original Credit Agreement" has the meaning given to it in the introductory paragraph hereto.

"Original Effective Date" means December 10, 2019, the date of signing of the Original Credit Agreement.

"Other Connection Taxes" means, with respect to any Recipient, Taxes imposed as a result of a present or former connection between such Recipient and the jurisdiction imposing such Tax (other than connections arising from such Recipient having executed, delivered, become a party to, performed its obligations under, received payments under, received or perfected a security interest

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property and assets that secured or, under the written agreements pursuant to which the original Lien arose, could secure the original Lien (plus improvements and accessions to, such property or proceeds or distributions thereof); and (ii) the Indebtedness secured by such Lien at such time is not increased to any amount greater than the sum of (x) the outstanding principal amount or, if greater, committed amount of the Indebtedness under clause (e), (f), (g), (h) or (i) at the time the original Lien became a Permitted Lien pursuant to this Agreement and (y) an amount necessary to pay any fees and expenses, including premiums, related to such Refinancing, refunding, extension, renewal or replacement; and

(l) Liens on assets subject to a sale and leaseback transaction securing Attributable Debt permitted to be Incurred pursuant to Section 10.6 (*Limitation on Sale and Leaseback Transactions*).

"Permitted Transferee" means any assignee or transferee permitted pursuant to Section 13.1

Agreement), and Primetals dated as of August 15, 2019 (the "**PESA**"), as amended by that certain ESP Amendment to Project Equipment Supply Agreement dated as of August 15, 2019 (the "**ESP Amendment**"), as the ESP Amendment has been amended pursuant to the Amendment No. 3 to ESP Amendment to the Project Equipment Supply Agreement dated as of October 19, 2020, the Amendment No. 4 to the ESP Amendment to the Project Equipment Supply Agreement dated as of December 30, 2021 and the Amendment No. 5 to ESP Amendment to the Project Equipment Supply Agreement dated as of February 28, 2022, related to the Mini-Mill2 Project.

"**Project Upgrades**" means the installation of an endless strip production line at the Mini-Mill2 Project supplied by Primetals.

"Proportionate Share" means, as to any Lender and its Commitment of any Class, the percentage calculated as such Lender's unutilized Commitment of such Class divided by all Lenders' unutilized Commitments of such Class.

"PTE" means a prohibited transaction class exemption issued by the United States Department of Labor, as any such exemption may be amended from time to time.

"Ratings Agency" means S&P, Moody's or Fitch.

"Recipient" means (a) the Facility Agent or (b) any Lender.

"Reference Banks" means the principal offices of JPMorgan Chase Bank, N.A. (London Branch), Crédit Agricole Corporate & Investment Bank and Deutsche Bank AG.

"Refinancing

"Restricted Finance Party" has the meaning given to it in Section 8.1(1) (Sanctions).

"S&P" means Standard & Poor's Ratings Services, a Standard & Poor's Financial Services LLC business or any successor to its rating business.

"Sale-Leaseback" means a transaction or arrangement under which title to any property or an interest therein is transferred by or on the direction of a Person ("X") to another Person which leases or otherwise grants the right to use such property, asset or interest (or other property, which X intends to use for the same or a similar purpose) to X (or nominee of X), whether or not in connection therewith X also acquires a right or is subject to an obligation to acquire the property, asset or interest, and regardless of the accounting treatment of such arrangement.

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"Total Commitments" means the sum of the Total Covered Loan Commitment and the Total Commercial Loan Commitment, *provided* that the Total Commitments shall be reduced in the case of a reduction of the Eligible Project Costs before the Loans are fully drawn or the end of the Commercial Loan Commitment Period and the Covered Loan Commitment Period has been reached, *provided further* that an increase in Eligible Project Costs shall not automatically lead to an increase in the Total Commitments.

"Total Covered Loan Commitment" shall have the meaning given to it in Section 2.1(a)(ii) (*Premium Loans*).

"Total Eligible Project Cost Loan Commitment" shall have the meaning given to it in Section 2.1(a)(i) (Eligible Project Cost Loans).

"Transaction Documents" means the Project Equipment Supply Agreement, the Parent PESA Guarantee, and the PESA Assignment and Assumption Agreement together with the Finance Documents.

"

- "U.S. Person" means any Person that is a "United States Person" as defined in Section 7701(a)(30) of the Code.
- "U.S. Tax Compliance Certificate" has the meaning specified in Article 6(g)(ii)(B)(3) (Status of Lenders).
- "U.S. Secondary Sanctions" means any "secondary sanctions" (as such term is construed under U.S. sanctions laws, regulations and executive orders) imposed by the United States (including any such "secondary sanctions" imposed by OFAC or the U.S. Department of State). "USA PATRIOT Act" means the

reasonably select, an amount equal to the amount of that participation in that Loan for a period equal in length to the Interest Period of that Loan.

1.3 Currency.

Any reference in this Agreement to currency, "**Dollar**", "**U.S. Dollar**" or to "\$", unless otherwise expressly indicated, shall be to the lawful currency of the United States of America, being referred to herein as United States dollars. Any amounts to be advanced, paid, prepaid, or repaid shall be made in United States dollars.

1.4 Knowledge.

Where any representation or warranty contained in this Agreement is expressly qualified by reference to the "knowledge" of a Person, it shall be deemed to refer to the actual knowledge of any Chief Executive Officer, Chief Financial Officer, General Counsel, any Vice President or any other officer or director (or Person performing any role of substantially the same scope and responsibility of any of the foregoing) of such Person and all information which ought to have been known by any of them after conducting a reasonable inquiry into the matters in question, whether or not any such inquiry was actually made; *provided*, that each such Person shall be deemed to have knowledge of all events, conditions and circumstances described in any notice der 188(ve)3.9(r)3.8(e)9(d 408(t)-1.9(o 389.1(t)-2(he)4.8(408BP)-3.7(or34.7(r)3on)-10.7ow)1.9(e)4.8(r)-7.7(40 the 32.1 re

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or otherwise and whether at law or in equity), for any error or calculation of any such rate (or component thereof) provided by any such information source or service."

Article 2 LOANS

- 2.1 Loans.
- (a) Covered Loans.
 - (i) Eligible Project Cost Loans

as may be reduced from time to time in accordance with the terms hereof, the "**Total Commercial Loan Commitment**"). The aggregate amount of Commercial Loans outstanding at any point in time shall not exceed the Total Commercial Loan Commitment.

2.2 Finance Parties' Rights and Obligations.

- (a) No Lender shall be responsible for the failure of any other Lender ("**Defaulting Lender**") to so make its Loans, it being understood that no Lender shall be responsible for making Loans if the corresponding conditions in Article 11 (*Conditions Precedent*) are not met.
- (b) Failure by a Finance Party to perform its obligations under the Finance Documents does not affect the obligations of any other Finance Party under the Finance Documents.
- (c) No Finance Party is responsible for the obligations of any other Finance Party under the Finance Documents.
- (d) The rights of each Finance Party under, or in connection with, the Finance Documents are separate and independent rights.
- (e) Any debt arising under the Finance Documents to a Finance Party from the Borrower is a

(c) The Borrower shall apply the proceeds of Commercial Loans in accordance with this Agreement and shall use the proceeds of the Commercial Loans solely to pay the Down Payment.

2.4 Monitoring.

No Finance Party is bound to monitor or verify the application of any amount borrowed pursuant to any Finance Document.

2.5 Evidence of Indebtedness.

(a) Each Lender may maintain in accordance with its usual practice an account or accounts evidencing the Indebtedness of the Borrower to such Lender resulting from each Loan made by such Lender, including the amounts of principal and interest payable and paid to such Lender from time to time hereunder. Such account or accounts shall, to the extent not exception with the resulting the include its property of the include its property of the included in the extent of the included in the included in the extent of the included in the included in the extent of the extent of the included in the extent of
(A) directly to the Exporter to such account of the Exporter described in the Covered Loan Utilization Request – Disbursement (*Schedule C-1, Part I*) for the purpose described in Section 2.3(a) (*Purpose and Use of Proceeds*) or (B) in the case of reimbursement of Eligible Project Costs, directly to the Borrower to such account of the Borrower described in the Covered Loan Utilization Request – Reimbursement (*Schedule C-1, Part II*) and (ii) all Premium Loans shall be funded directly to the OeKB Guarantor to satisfy payment of the OeKB Guarantee Premium as described in the Covered Loan Utilization Request – Premium Loan (*Schedule C-1, Part III*).

The Borrower agrees that any Covered Loan Utilization Request – Disbursement (*Schedule C-1, Part I*), including the Exporter's Certificate – Disbursement (*Schedule D, Part I*) and(c)3.2(tm)-2(m

- (vi) the Utilization Request is executed by a Person duly authorized to do so on behalf of the Borrower as evidenced by an up-to-date Officer's Certificate or by an Exporter authorized person;
- (b) Only four (4) Utilization Requests (which may consist of no more than (i) two (2) Utilizations from the Borrower and (ii) two (2) Utilizations from the Exporter) may be delivered in any calendar month. For the avoidance of doubt, the delivery of a Covered Loan Utilization Request Premium Loan (*Schedule C-1*, *Part III*) shall not count towards the limitation as described under this Section 3.2(b) (*Completion of a Utilization Request*).

3.3 Currency and Amount.

- (a) The currency specified in a Utilization Request shall be U.S. Dollars.
- (b) The amount of each proposed Utilization shall be a minimum of \$1,000,000 except (i) subject to Section 3.2(b) (*Completion of a Utilization Request*), one (1) Utilization from the Borrower and one (1) Utilization from the Exporter for an amount less than \$1,000,000 in any calendar month; or (ii) an amount equal to the Unused Commitments.

3.4 Notification of Utilization of the Loan.

Following the delivery of a duly completed Utilization Request as provided in Section 3.1(b) (*Delivery of a Utilization Request*), the Facility Agent shall promptly, but in all cases, on or prior to 12:00 p.m. New York time on the date that falls three (3) Business Days prior to the proposed Utilization Date for any Loan notify each Lender and, in the case of Covered Loans, the ECA Agent of the proposed Utilization Date, Interest Period and the amount of such Lender's share of the proposed Loan.

3.5 Lenders' Participation.

- (a) If the conditions set out in this Agreement (including the applicable conditions in Article 11 (*Conditions Precedent*)) have been met, and subject to Article 4 (*Repayment, Prepayment and Cancellation*), each Lender shall make its participation in each Loan available by 10:00 a.m. Frankfurt time, on or prior to the applicable Utilization Date through its lending office to the Facility Agent's Account.
- (b) The amount of each Lender's participation in each Loan shall be *pro rata* to its Unused Commitment immediately prior to making such Loan.

3.6 Partial Payments.

If the Facility Agent receives a payment for application against amounts due in respect of this Agreement that is insufficient to discharge all the amounts then due and payable by the Borrower under this Agreement, the Facility Agent shall apply such payment towards the Obligations of the Borrower under this Agreement in the following order:

(i) **first**, in or towards payment *pro rata* of any unpaid amount owing to the Facility Agent and the ECA Agent under this Agreement;

- (ii) **second**, in or towards payment *pro rata* as between the Covered Loans and Commercial Loans of any accrued interest, fee or commission due but unpaid under this Agreement;
- (iii) **third**, in or towards payment *pro rata* as between the Covered Loans and Commercial Loans of any principal due but unpaid under this Agreement; and
- (iv) **fourth**, in or towards payment *pro rata* as between the Covered Loans and Commercial Loans of any other sum due but unpaid under this Agreement;

Article 4 REPAYMENT, PREPAYMENT AND CANCELLATION

4.1 Repayments.

(a) The Borrower shall repay the Utilizations made to it in accordance with the terms of this

(d) Not later than five (5) Business Days following (A) the Impairment of the Project Equipment Supply Agreement or the Parent PESA Guarantee, (B) the reduction of the Eligible Project Costs under the Project Equipment Supply Agreement, (C) a material

(i)

- (A) be applied *pro rata* between each Lender of the applicable Class; and
- (B) if in part, reduce the Commitment of each Lender of such Class *pro rata*; and
- (ii) any prepayment pursuant to this Article 4 (*Repayment, Prepayment and Cancellation*) shall be applied *pro rata* between each Loan of such Class.
- (b) If any Loan is prepaid in accordance with Section 4.2 (*Mandatory Prepayment*), such prepayment will be applied (i) in inverse chronological order to the then remaining Repayment Installments or (ii) at the Borrower's option, subject to the OeKB Guarantor's prior approval, ratably to the then remaining Repayment Installments.
- (c) If any Loan is prepaid in accordance with Section 4.4 (*Voluntary Prepayment*), such prepayment will be applied (i) in inverse chronological order to the then remaining Repayment Installments or (ii) at the Borrower's option, subject to the OeKB Guarantor's prior approval, ratably to the then remaining Repayment Installments.

4.8 Miscellaneous.

- (a) Any written notice of cancellation or prepayment under this Article 4 (*Repayment, Prepayment and Cancellation*):
 - (i) is irrevocable; and
 - (ii) unless a contrary indication appears in this Agreement, shall specify:
 - (A) the date upon which the relevant cancellation or prepayment is to be made; and
 - (B) the amount of that cancellation or prepayment.
- (b) Subject to the requirements of the other provisions of this Article 4 (*Repayment, Prepayment and Cancellation*), any prepayment under this Agreement is without premium or penalty other than Break Costs to the extent that the prepayment is made on a date other than on the last day of the current Interest Period.
- (c) Any prepayment under this Agreement shall be made together with accrued and unpaid interest through but not including such date.
- (d) No prepayment, repayment or cancellation is allowed except at the times and in the manner expressly provided for in this Agreement.
- (e) No amount of the Commitments cancelled under this Agreement may be subsequently reinstated.
- (f) If the Facility Agent receives a notice under this Article 4 (*Repayment, Prepayment and Cancellation*), it shall promptly forward a copy of that notice to each Lender.

4.9 Adjustment in case of disbursement after First Repayment Date.

If any Covered Loan is disbursed after the First Repayment Date, then every Repayment Installment then outstanding with respect to a Covered Loan will be increased by the amount of such Utilization divided by the number of such outstanding Repayment Installments. Where such Utilization of a Covered Loan is effected within a period of one (1) month prior to the Repayment Date, then the Repayment Installments will be adjusted only as from the second Repayment Date following the Utilization of such Covered Loan.

4.10 Repayment Schedules.

Prior to the First Repayment Date, the Facility Agent shall provide the Borrower a repayment schedule with respect to each of the Covered Loans and the Commercial Loans, which shall be aligned with the then existbshnd tw788D 14h0(e)-6sh5(pa)3.ymenTD [(D)2(a)4(y)-10(13.8(nss)i)-1.1119]

(b)

5.6 Unavailability of Screen Rate.

- (a) Interpolated Screen Rate: If no Screen Rate is available for LIBOR for the Remaining Interest Period of a Loan, the applicable LIBOR shall be the Interpolated Screen Rate for a period equal in length to the applicable Interest Period.
- (b) Base Reference Bank Rate: If no Screen Rate is available for LIBOR during the Remaining Interest Period for (i) U.S. Dollars, or (ii) the Remaining Interest Period of a Loan and it is

(b)

Utilization Request or fails to satisfy any of the conditions precedent specified in

other commitment fees will be payable to the Facility Agent or the Commercial Lenders on account of the Commercial Loans. Notwithstanding the foregoing, no Commercial Lender shall be entitled to receive any commitment fee for any period during which such Commercial Lender is a Defaulting Lender (and the Borrower shall not be required to pay any commitment fee that otherwise would have been required to be paid to that Defaulting Lender).

- (c) **OeKB Guarantee Premium.** Subject to the issuance of the OeKB Guarantee, the Borrower shall pay the OeKB Guarantee Premium in the amounts, at such time and manner specified in the OeKB Guarantee, which payment shall be made with the proceeds of the Premium Loans after disbursement thereof in accordance with the terms of this Agreement.
- (d) **Other Fees**. The Borrower shall pay such other fees in the amounts and manner agreed between any Finance Party and the Borrower in any Fee Letter.

Article 6 TAXES

- (a) **Defined Terms**. For purposes of this Article 6 (*Taxes*), the term "Applicable Law" includes FATCA.
- (b) **Payments Free of Taxes**. Any and all payments by or on account of any obligation of the Borrower under any Finance Document shall be made without deduction or withholding for any Taxes, ex-2wÍÁ,Yi~h9Ñ Ý£±ŠÜI ;à £` Y 1• ¿p"5~¤"q "\$YŠI±ž.

- (A) any Lender that is a U.S. Person shall deliver to the Borrower and the Facility Agent on or about the date on which such Lender becomes a Lender under this Agreement (and from time to time thereafter upon the reasonable request of the Borrower or the Facility Agent), executed copies of IRS Form W-9 certifying that such Lender is exempt from U.S. federal backup withholding Tax;
- (B) any Foreign Lender shall, to the extent it is legally entitled to do so, deliver to the Borrower and the Facility Agent (in such number of copies as shall be requested by the recipient) on or about the date on which such Foreign Lender becomes a Lender under this Agreement (and from time to time thereafter upon the reasonable request of the Borrower or the Facility Agent), whichever of the following is applicable:
 - (1) in the case of a Foreign Lender claiming the benefits of an income Tax treaty to which the United States of America is a party (x) with respect to payments of interest under any Finance Document, executed copies of IRS Form W-8BEN or IRS Form W-8BEN-E establishing an exemption from, or reduction of, U.S. federal withholding Tax pursuant to the "interest" article of such Tax treaty and (y) with respect to any other applicable payments under any Finance Document, IRS Form W-8BEN or IRS Form W-8BEN-E establishing an exemption from, or reduction of, U.S. federal withholding Tax pursuant to the "business profits" or "other income" article of such Tax treaty;
 - (2) executed copies of IRS Form W-8ECI;
 - (3) in the case of a Foreign Lender claiming the benefits of the exemption for portfolio interest under Section 881(c) of the Code, (x) a certificate substantially in the form of Exhibit A-1 to the effect that such Foreign Lender is not a "bank" within the meaning of Section 881(c)(3)(A) of the Code, a "10 percent shareholder" of the Borrower within the meaning of Section 871(h)(3)(B) of the Code, or a "controlled foreign corporation" related to the Borrower as described in Section 881(c)(3)(C) of the Code (a "U.S. Tax Compliance Certificate")

not been deducted, withheld or otherwise imposed and the indemnification payments or additional amounts with respect to such Tax had never been paid. This paragraph (h) shall not be construed to require any indemnified party to make available its Tax returns (or any other information relating to its Taxes that it deems confidential) to the indemnifying party or any other Person.

(i) **Survival**. Each party's obligations under this Article 6 (*Taxes*) shall survive the resignation or replacement of the Facility Agent or any assignment of rights by, or the replacement of, a Lender, the termination of the Commitments and the repayment, satisfaction or discharge of all obligations under any Finance Document.

Article 7 OTHER PROVISIONS RELATING TO THE LOANS

7.1 Payments Generally.

- (a) The Borrower shall make each payment required to be made by it under this Agreement on the date when due, in immediately available funds, without defense, deduction, recoupment, set-off or counterclaim.
- (b) Any amounts received after close of business on any date may, in the discretion of the Facility Agent, be deemed to have been received on the next succeeding Business Day for purposes of calculating interest thereon.
- (c) All such payments shall be made to the Facility Agent at the Facility Agent's Account, except that payments pursuant to Sections 7.3 (*Change in Circumstances*), 7.4 (*Payment of Out-of-Pocket Costs and Expenses*) and 7.5 (*Indemnities*) shall be made directly to the Persons entitled thereto.

(d)

opinion of such Lender, only affect part of its obligations under this Agreement, the remainder of this Agreement shall be unaffected and the obligations of the Borrower under the Finance Documents shall continue. Each Lender agrees to use commercially reasonable efforts to designate a different lending office if such designation will avoid the need for such notice and will not, in the judgment of such Lender, acting reasonably, otherwise be materially disadvantageous (including among others, reduction in rate of return) to such Lender. The Borrower hereby agrees to pay all reasonable out-of-pocket costs and expenses Incurred by any Lender in connection with any such designation or assignment.

7.3 Change in Circumstances.

- (a) If the introduction of or any change in any Applicable Law relating to a Lender or any change in the interpretation or application thereof by any Governmental Body or compliance by a Lender with any request or direction of any Governmental Body:
 - (i) subjects such Lender to any Taxes (other than Indemnified Taxes, Taxes described in clauses (b) through (d) of the definition of Excluded Taxes and Connection Income Taxes) on its loans, loan principal, letters of credit, commitments, or other obligations, or its deposits, reserves, other liabilities or capital attributable thereto;
 - (ii) imposes, modifies or deems applicable any reserve, liquidity, cash margin, capital, special deposit, deposit insurance or assessment, or any other regulatory or similar requirement or any additional or increased cost against assets held by, or deposits in or for the account of, or loans by, or any other acquisition of funds for loans by, such Lender or any direct or indirect holding company of such Lender;
 - (iii) imposes on such Lender or any direct or indirect holding company of such Lender or requires there to be maintained by such Lender any capital adequacy, liquidity or additional liquidity capital requirement (including, without limitation, a requirement which affects such Lender's or such holding company's allocation of capital resources to its obligations) in respect of such Lender's obligations hereunder; or
 - (iv) imposes on such Lender any other condition or requirement with respect to this Agreement (provided, however, that this Section 7.3(a)(iv) (*Change in Circumstances*) shall not apply with respect to any Taxes, but shall not limit any rights or obligations arising under Section 7.3(a)(i) (*Change in Circumstances*));
- (b) and subject to paragraph (c) below, such occurrence has the effect of:
 - (i) increasing the cost to such Lender of agreeing to make or making, maintaining or funding the Loan or any portion thereof;
 - (ii) reducing the amount of the Obligations (including reduction in the rate of return) owing to such Lender;
 - (iii) directly or indirectly reducing the effective return to such Lender under this Agreement or on its overall capital as a result of entering into this Agreement or as

a result of any of the transactions or obligations contemplated by this Agreement; or

(iv) causing such Lender to make any payment or to forgo any interest, fees or other return on or calculated by reference to any sum received or receivable by such Lender under this Agreement;

then, upon written request of such Lender, the Borrower will pay to such Lender such additional amount or amounts as will compensate such Lender for such additional costs Incurred or reduction suffered. A certificate of a Lender setting forth the amount or amounts necessary to compensate such Lender and delivered to the Borrower, shall be conclusive absent manifest error. The Borrower shall pay such Lender the amount shown as due on any such certificate within ten (10) days after receipt thereof.

(c) For purposes of the foregoing, (i) the Dodd-Frank Wall Street Reform and Consumer Protection Act and all requests, rules, regulations, guidelines, requirements and directives thereunder, issued in connection therewith or in implementation thereof and (ii) all requests, rules, regulations, guidelines or directives whether concerning capital adequacyelineBDC

(e) translation costs, including, but not limited to, the translation of the OeKB Guarantee from German into English.

7.5 Indemnities.

- (a) The Borrower shall indemnify and hold harmless each Agent, each Lender and the OeKB Guarantor and their Affiliates, officers, directors and employees (each, an "Indemnified Party") from all Claims (including the properly invoiced and documented fees, out-of-pocket expenses and disbursements of outside legal counsel to the Lenders and the OeKB Guarantor in each applicable jurisdiction), which may be Incurred by any Indemnified Party as a consequence of or in respect of:
 - (i) default by the Borrower in the payment when due of any Obligation or any other Default or Event of Default hereunder which is continuing;
 - (ii) the entering into by the relevant Agents and the Lenders of this Agreement and any amendment, waiver or consent relating hereto, and the performance by such Agents and the Lenders of their obligations under this Agreement;
 - (iii) failure of the Borrower to comply with any Applicable Law, including, without limitation, any Environmental Law or applicable Anti-Corruption Laws or Sanctions, with respect to the Project Upgrades;
 - (iv) any Environmental Matter and Environmental Claim with respect to the Project Upgrades;
 - (v) the application by the Borrower of the proceeds of the Loan; or

(vi)

Article 8 REPRESENTATIONS AND WARRANTIES

8.1 Representations and Warranties of the Borrower and the Parent Guarantor.

To induce each Lender to enter into this Agreement and the other Finance Documents to which

not, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect.

- (e) **No Conflict**. The execution, delivery and performance by each Loan Party of the Transaction Documents to which it is or will become a party and compliance by each Loan Party with the terms thereof and the consummation of the transactions contemplated by the Transaction Documents, will not result in a breach or violation of any of the terms and provisions of, or constitute a default under:
 - (i) any statute, any rule, regulation or Order of any Governmental Body or any court, domestic or foreign, having jurisdiction over a Loan Party or such Loan Party's respective properties;
 - (ii) any agreement or instrument to which a Loan Party is a party or by which a Loan Party is bound or to which any of the properties of a Loan Party is subject; or
 - (iii) the charter, by laws or other organizational document of the a Loan Party, as applicable.
- (f) **Due Authorization**. Each Loan Party has full right, power and authority to execute and deliver the Transaction Documents to which it is or will become a party and to perform its Obligations hereunder and thereunder; and all action required to be taken for the due and proper authorization, execution and delivery of each of the Transaction Documents and the consummation of the transactions contemplated thereby has been duly and validly taken.
- (g) **Execution; Binding Obligation**. Each of the Transaction Documents to which a Loan Party, is or will become a party:
 - (i) has been, or when delivered under or in connection with this Agreement will be, duly executed and delivered by such Loan Party; and
 - (ii) constitutes, or when delivered under or in connection with this Agreement will constitute, a valid and legally binding agreement of such Loan Party, enforceable against such Loan Party, in accordance with its terms, except as enforceability may be limited by applicable bankruptcy or insolvency laws, or Applicable Law affecting the enforcement of creditors' rights generally or by equitable principles relating to enforceability.

(h) No Defaults.

- (i) Neither Loan Party is:
 - (A) in violation of its respective charter or limited liability company agreement or other organizational documents;

(B)

- (iv) to the knowledge of the Parent Guarantor, the Intellectual Property of the Parent Guarantor is not being infringed, misappropriated or otherwise violated by any Person.
- (1) Sanctions. Neither the Parent Guarantor nor any of its Subsidiaries nor, to the knowledge of the Parent Guarantor, any of their respective directors, officers or employees, nor any agent of the Parent Guarantor or its Subsidiaries that will act in any capacity in connection with this Agreement, is a Sanctions Target. The Parent Guarantor, its Subsidiaries and, to the knowledge of the Parent Guarantor, their respective directors, officers, employees and agents are in compliance with applicable Sanctions in all material respects. To the Parent Guarantor's knowledge, none of its Subsidiaries or any of the directors, officers, employees or agents of the Borrower or its Subsidiaries has knowingly taken any action that could reasonably be expected to result in penalties being imposed against the Parent Guarantor or any of its Subsidiaries or any of their respective directors, officers, employees or agents, as applicable, under U.S. Secondary Sanctions. The Parent Guarantor has implemented policies and procedures designed to promote and achieve compliance with applicable Sanctions.

In relation to each Finance Party that notifies any Loan Party that it is a Restricted Finance Party (each a "**Restricted Finance Party**"), this Section 8.1(l) (*Sanctions*) shall only apply for the benefit of that Restricted Finance Party to the extent that the acceptance of the representation in this Section 8.1(l) (*Sanctions*) would not conflict with, or result in any such Restricted Finance Party being in violation of, or subject to liability under, any EU Anti-Boycott Regulation.

In connection with any amendment, waiver, determination or direction relating to any part of this Section 8.1(1) (*Sanctions*) of which a Restricted Finance Party does not have the benefit, the Commitment of that Restricted Finance Party (if any) will be excluded for the purpose of determining whether the consent of the Majority Lenders has been obtained or whether the determination or direction by the Majority Lenders has been made.

(m) Anti-Corruption and Money Laundering Laws. The Parent Guarantor, its Subsidiaries

- (i) is not in violation of any Environmental Laws or the Equator Principles;
- (ii) maintains and is in compliance with all requisite Environmental Permits (including with respect to the development, construction and operation of the Project Upgrades);
- (iii) does not own or operate any real property contaminated with any Hazardous Materials at levels that, to the knowledge of the Borrower, would reasonably be expected to require remedial action by the Borrower pursuant to any Environmental Laws; and
- (iv) is not liable for any off-site disposal or contamination pursuant to any Environmental Laws, or is subject to any claim relating to any Environmental Laws, which violation, contamination, liability or claim would reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, and neither Loan Party is aware of any pending investigation which would reasonably be expected to lead to such a claim.
- (p) **No Labor Disputes**. No labor dispute with the employees of any Loan Party exists or, to the knowledge of any Loan Party, is imminent that would reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect, including with respect to the Project Upgrades.
- (q) **Employee Benefit Plans**. Except as would not reasonably be expected, individually or in the aggregate, to have a Material Adverse Effect:
 - (i) Each Plan and Multiemployer Plan has been maintained in compliance with its

- (t) **Absence of Material Adverse Effect**. Except as set forth in the Parent Guarantor's Latest Form 10-K or the Parent Guarantor's Latest Form 10-Q since September 30, 2022:
 - (i) there has not been any material change in the capital stock or long-term Indebtedness of either Loan Party, or any dividend or distribution of any kind declared, set aside for payment, paid or made by any Loan Party on any class of capital stock (other than any regular quarterly dividend), or any Material Adverse Effect, or any development involving a prospective Material Adverse Effect, in or affecting the financial markets, business, properties, rights, assets, management, financial position, results of operations or prospects of either Loan Party; and
 - (ii) no Loan Party has entered into any transaction or agreement that is material to such Loan Party or Incurred any liability or obligation, direct or contingent, that is material to such Loan Party.
- (u) **Litigation**. As of the date of this Agreement, there are no Actions or Orders pending to which the Parent Guarantor or any of its Subsidiaries is a party or to which any property, right or asset of the Parent Guarantor or any of its Subsidiaries is subject that would, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect and neither any such Actions or Orders nor any legal, governmental or regulatory investigations to which a Loan Party is a party or to which any property, right or asset of a Loan Party is subject that would, individually or in the aggregate, reasonably be expected to have a Material Adverse Effect, are, to the knowledge of a Loan Party, threatened by any Governmental Body or by others.
- (v) Ranking. The (i) Loans are direct and unconditional general obligations of the Borrower, and rank and will at all times rank in right of payment and otherwise at least *pari passu* with all other senior unsecured and unsubordinated Indebtedness of the Borrower and (ii) the Parent Guarantee is a direct and unconditional general obligation of the Parent Guarantor, and ranks and will at all times rank in right of payment or otherwise at least *pari passu* with all other senior unsecured and unsubordinated Indebtedness of the Parent Guarantor, in each case, whether now existing or hereafter outstanding, except for Indebtedness of the Borrower or Parent Guarantor, as applicable, having priority solely by operation of Applicable Law, such as Indebtedness relating to judicial expenses Incurred for the general benefit of creditors, Taxes payable to Governmental Bodies, and wages, salaries and other social security benefits of the employees of the Borrower or Parent Guarantor, as applicable.
- (w) **Investment Company Act of 1940**. Neither Loan Party is, and after giving effect to the transactions contemplated hereby, will be, subject to registration as an "investment company" or "controlled" by a company subject to registration as an "investment company," within the meaning of the United States Investment Company Act of 1940, as amended.
- (x) **Margin Regulations**. No part of the application of proceeds of any Loan will violate Regulation T, U or X promulgated by the Board of Governors of the Federal Reserve System of the United States (12 C.F.R. Sections 207, 220, 221 and 224, respectively).

- (y) **Use of Proceeds**. The proceeds of all Utilizations have been and will be used in accordance with the terms and conditions of this Agreement and all applicable Finance Documents and the OeKB Guarantee.
- (z) **No Force Majeure or Early Termination Event:** No event or circumstance has occurred that:
 - (i) gives rise or might reasonably be expected to give rise to a right to terminate early, suspend performance under repudiate or cancel (in each case, in whole or in part)

(g)	Without duplication to the provisions of Section 7.5 (<i>Indemnities</i>), the ECA Agent is subject to certain obligations under the OeKB Guarantee which ECA Agent would not be

on the earlier of the date notified in writing to the Facility Agent that they have been posted to the Parent Guarantor's website or that they have been made publicly

- (iv) the occurrence of an ERISA Event, other than a prohibited transaction with respect to a Plan (within the meaning of Section 406 of ERISA or Section 4975 of the Code for which an exemption is not available) that results or would reasonably be expected to result in a Material Adverse Effect;
- (v) the occurrence of any change in Applicable Law (or, to the knowledge of such Loan Party, in the interpretation of any Applicable Law) by a Governmental Body that results in, or would reasonably be expected to result in any Transaction Document being terminated or becoming invalid, illegal or unenforceable;
- (vi) the occurrence of any event or development that results in, or would reasonably be expected to result in, a Material Adverse Effect;
- (vii) copies of any amendments of or waivers under the Project Equipment Supply Agreement;
- (viii) following any request therefore, such information regarding the operations,

occurred and, if such Authorized Officer knows of the occurrence of an Event of Default, specifying the details thereof and any action taken or proposed to be taken with respect thereto. The Compliance Certificate shall also notify the Facility Agent should the relevant Fiscal Year end on any date other than the current Fiscal Year end date.

substitute or replace (including successive extensions, renewals, substitutions or replacements), in whole or in part, any Lien permitted pursuant to the preceding sentence.

10.6 Limitation on Sale and Leaseback Transactions.

- (a) The Parent Guarantor shall not directly or indirectly, and shall not permit any of its Subsidiaries that own a Principal Property directly or indirectly to, enter into any Sale-Leaseback for the sale and leasing back of any Principal Property, whether now owned or hereafter acquired, unless:
 - (i) such transaction was entered into prior to the Original Closing Date;
 - (ii) such transaction was for the sale and leasing back to the Parent Guarantor or one of its Subsidiaries of any property by the Parent Guarantor or one of its Subsidiaries;
 - (iii) such transaction involves a lease for not more than three years (or which may be terminated by the Parent Guarantor or its Subsidiaries within a period of not more than three years);
 - (iv) the Parent Guarantor would be entitled to Incur Indebtedness secured by a Lien with respect to such Sale-Leaseback without equally and ratably securing the Loans pursuant to the last paragraph of Section 10.5 (*Limitation on Liens*); or
 - (v) the Parent Guarantor applies an amount equal to the net proceeds from the sale of such property to the purchase of other property or assets used or useful in its business or to the retirement of long-term Indebtedness within 365 days before or after the effective date of any such Sale-Leaseback; *provided*, that, in lieu of applying such amount to the retirement of long-term Indebtedness, the Parent Guarantor may cause the Borrower to apply the proceeds to prepay the Loans pursuant to Section 4.4 (*Voluntary Prepayment*).
- (b) Notwithstanding the restrictions set forth in clause (a) above, the Parent Guarantor and its Subsidiaries may enter into any Sale-Leaseback which would otherwise be subject to the foregoing restrictions, if after giving effect thereto the aggregate amount of all Attributable Debt with respect to such transactions, together with all Indebtedness outstanding pursuant to the last paragraph of Section 10.5 (*Limitation on Liens*), does not exceed 17.5 % of the Consolidated Net Tangible Assets of the Parent Guarantor calculated as of the closing date of the Sale-Leaseback.

10.7 Sanctions and Anti-Corruption Laws.

The Borrower shall not and the Parent Guarantor shall not permit the Borrower to, directly or indirectly, use any part of the proceeds of the Loans, or lend, contribute or otherwise make available such proceeds to any other Person: (a) in violation of any applicable Anti-Corruption Law; (b) to fund, finance or facilitate any agreement, transaction, dealing or business with or for

Anti-Corruption Laws

- (b) not amend or waive any material provisions under the Project Equipment Supply Agreement which could reasonably be expected to be relevant for the interests of the Facility Agent, the ECA Agent and/or the OeKB Guarantor with respect to the deliveries and/or services under the Project Equipment Supply Agreement (including, without limitation, any amendment which changes or has the effect of changing the Export Contract Value, the Eligible Project Costs, the payment terms or the scope of work);
- (c) notify the ECA Agent of any other amendments to the Project Equipment Supply Agreement no later than seven (7) Business Days following the closing of such amendment;
- (d) submit to the ECA Agent all copies of amendments to the Project Equipment Supply Agreement no later than seven (7) Business Days following the closing of such amendment; and
- (e) inform the ECA Agent of any event under or with respect to the Project Equipment Supply Agreement enabling the Borrower and/or Primetals to cancel, suspend, rescind or terminate the Project Equipment Supply Agreement in whole or in part.

The Parent Guarantor shall:

- (i) be in compliance in all material respects with the Parent PESA Guarantee;
- (ii) not amend or waive any material provisions under the Parent PESA Guarantee which could reasonably be expected to be relevant for the interests of the Facility Agent, the ECA Agent and/or the OeKB Guarantor with respect to the deliveries and/or services under the Project Equipment Supply Agreement or the Parent PESA Guarantee (including, without limitation, any amendment which changes or has the effect of changing the Export Contract Value, the Eligible Project Costs, the payment terms or the scope of work);
- (iii) notify the ECA Agent of any other amendments to the Parent PESA Guarantee no later than seven (7) Business Days following the closing of such amendment;
- (iv) submit to the ECA Agent all copies of amendments to the Parent PESA Guarantee no later than seven (7) Business Days following the closing of such amendment; and
- (v) inform the ECA Agent of any event under or with respect to the Parent PESA Guarantee enabling the Parent PESA Guarantee and/or Primetals to cancel, suspend, rescind or terminate the Parent PESA Guarantee in whole or in part.

10.11 Know Your Customer.

Each Loan Party will promptly on any Lender's written request supply to it any documentation or other evidence that is reasonably required by that Lender (whether for itself or on behalf of any Person to whom that Lender may, or may intend to, transfer any of its rights or Obligations under this Agreement) to enable such Lender:

- (a) to carry out and be satisfied it has complied with all necessary "know your customer" requirements that that Lender is obliged to carry out under all Applicable Law pursuant to the transactions contemplated in this Agreement; and
- (b) to comply with its obligations under all Applicable Law to prevent money laundering and corruption and to conduct ongoing monitoring of the business relationship with such Loan Party.

10.12 Maintenance of Properties.

The Parent Guarantor will, and will cause each of its Subsidiaries to (a) maintain from time to time all property that is material to the conduct of its business at such time in good working order and condition (ordinary wear and tear excepted), and (b) maintain with financially sound and reputable insurance companies insurance on its property as are usually reasonably maintained by, and against at least such risks as are usually insured against in the same general area by, companies engaged in the same or a similar business would be (in any event including all risk property business interruption insurance, workers compensation and such other insurances that would be reasonable and prudent from time to time), in each case in such amounts and with only such deductibles as are commonly available in the market at such time; *provided* that the Parent Guarantor may, but shall not be obligated to, implement programs of self-insurance in the ordinary course of business and in accordance with industry standards for a company of similar size so long as reserves are maintained in accordance with GAAP for the liabilities associated therewith).

10.13 Right of the Lenders to Inspect Property.

Each Loan Party shall, at its own cost, permit authorized representatives designated by the Facility Agent or the ECA Agent to visit and inspect its properties, including its books and records and the Project Upgrades, once per Fiscal Year, at reasonable times and with reasonable prior notice; provided that if (a) an Event of Default or severe accident or incident described in Section 10.1(a)(iv) (Material Adverse Environmental & Social Events) has occurred and is continuing, or (b) requested by the OeKB Guarantor in writing, the Facility Agent, the ECA Agent, the OeKB Guarantor or any other designated authorized designee thereto, may conduct an inspection visit more than once per Fiscal Year at reasonable times and with reasonable prior notice. The OeKB Guarantor, the Facility Agent, the ECA Agent or any such designated authorized designee thereto, shall, in all cases, comply with the applicable Loan Party's rules regarding safety and security while visiting such Loan Party's facilities.

10.14 Accuracy of Information.

Each Loan Party will ensure that no report, financial statement, certificate or other information furnished (other than projected financial information) by or on behalf of such Loan Party to the Facility Agent or any Lender in connection with this Agreement, the Project Equipment Supply Agreement or any other Transaction Document or any amendment or other modification hereof or thereof (in each case as modified or supplemented by other information so furnished), taken as a whole, shall contain any material misstatement of fact or shall omit to state any material fact necessary to make the statements therein, in the light of the circumstances under which they were made, not misleading; *provided*, that with respect to projected financial information, each Loan

10.18 Amendments to Documents.

No Loan Party will amend, modify or waive any of its rights under its certificate of formation or limited liability agreement or other organizational documents, in each case if the effect of such amendment, modification or waiver would be materially adverse to such Loan Party's ability to comply with its obligations under any Transaction Document.

10.19 Financial Covenants in Other Agreements.

No Loan Party shall agree to any debt instrument with any senior unsecured and unsubordinated creditor, (i) in the case of the Parent Guarantor, with an aggregate principal amount of such senior unsecured and unsubordinated Indebtedness that is greater than \$100,000,000.00, and (ii) in the case of the Borrower, that is guaranteed by the Parent Guarantor, in each case, that has more favorable coven7(di)-1.9(na6-.1()-129.9(ov)-9(eB54(m)-(a).8(B130(c)3.(di)-1.9Ln(130(i)-1.2()-1.9(e)3.1(nt)-1.

(ii) All fees payable in accordance with the Finance Documents and all out-of-pocket costs and expenses due at such time (including fees and disbursements of outside counsel to the Facility Agent) have been paid.

(c) Financial Statements

of the transactions contemplated by this Agreement or the Fee Letters and (iii) since September 30, 2022, no event, condition, circumstance, action, suit or proceeding at law or in equity or by or before any Governmental Body or arbitral tribunal or other body affecting such Loan Party has occurred that, individually or in the aggregate, has had or would reasonably be expected to have a Material Adverse Effect.

(f) Legal Opinion. The Facility Agent and each Lender shall have received an opinion of

- (n) **Exporter's Undertaking**. The Facility Agent shall have received a duly executed copy of any amendments, supplements or other modification of the Exporter's Undertaking in form and substance reasonably acceptable to the Facility Agent.
- (o) **Exporter's Declaration**. The Facility Agent shall have received a duly executed copy of any amendments, supplements or other modification to the Exporter's Declaration in form and substance reasonably acceptable to the Facility Agent.

(p)

Certificates. Each Loan Party shall have delivered to the Facility Agent certificates of an

(b)

or state bankruptcy, insolvency, reorganization or other similar law or (ii) an Order

- (ii) any obligation or obligations of either Loan Party under any of the Finance Documents are not or cease to be legal, valid, binding or enforceable and the cessation individually or cumulatively materially and adversely affects the interests of the Lenders under the Finance Documents; or
- (iii) any Finance Document ceases to be in full force and effect or is alleged by a party to it (other than a Finance Party) to be ineffective;
- (i) either Loan Party suspends or ceases to carry on (or threatens to suspend or cease to carry on) all or a part of its business which has, or would reasonably be expected to have, a Material Adverse Effect; *provided* that temporary suspensions in connection with maintenance in the ordinary course of business shall not constitute an Event of Default under this clause (i);

(j)

- (i) the Parent Guarantor or any of its Subsidiaries shall fail to make any payment (whether of principal or interest or other amount and regardless of amount) in respect of any Material Indebtedness, when and as the same shall become due and payable (whether by scheduled maturity, required prepayment, acceleration, demand or otherwise) and such failure shall continue unremedied for the applicable cure period, if any, provided in the document evidencing such Material Indebtedness, and the Borrower or its Subsidiary, as applicable, fails to demonstrate, to the satisfaction of the Lenders, that the default of such Material Indebtedness would not reasonably be expected to have a Material Adverse Effect;
- (ii) any event or condition occurs that results in any Material Indebtedness becoming due prior to its scheduled maturity pursuant to any document evidencing or relating to such Material Indebtedness (other than by a mandatory prepayment required due to asset sale, casualty or condemnation (other than a total loss) or debt or equity issuance), and such Loan Party fails to demonstrate, to the satisfaction of the Lenders, that the acceleration of such Material Indebtedness would not reasonably be expected to have a Material Adverse Effect;
- (k) one or more judgments for the payment of money in an aggregate amount exceeding \$100,000,000 shall be rendered against the Parent Guarantor or any of its Subsidiaries and shall remain undischarged for a period of thirty (30) consecutive days during which execution shall not be effectively stayed, or any action shall be legally taken by a judgment creditor to attach or levy upon any asset of the Parent Guarantor or its Subsidiary, as applicable, to enforce any such judgment; and
- (l) the Parent Guarantee shall cease to be in full force and effect.

each Participant's interest in the Loans or other obligations under the Finance Documents (the "Participant Register"); provided, that no Lender shall have any obligation to disclose all or any portion of the Participant Register (including the identity of any Participant or any information relating to a Participant's interest in any commitments, loans, letters of credit or its other obligations under any Finance Document) to any Person except to the extent that such disclosure is necessary to establish that such commitment, loan, letter of credit or other obligation is in registered form under Section 5f.103-1(c) of the United States Treasury Regulations and Section 1.163-5(b) of the proposed United States Treasury Regulations. The entries in the Participant Register shall be conclusive absent manifest error, and such Lender shall treat each Person whose name is recorded in the Participant Register as the owner of such participation for all purposes of this Agreement notwithstanding any notice to the contrary. For the avoidance of doubt, the Facility Agent (in its capacity as Facility Agent) shall have no responsibility for maintaining a Participant Register.

- (k) Any Lender may at any time pledge or assign a security interest in all or any portion of its rights under this Agreement to secure obligations of such Lender, including any pledge or assignment to secure obligations to a Federal Reserve Bank or any other central bank; provided, that no such pledge or assignment shall release such Lender from any of its obligations hereunder or substitute any such pledgee or assignee for such Lender as a party hereto.
- (l) In connection with any assignment, participation or pledge made pursuant to this Section 13.1 (*Assignment by Lenders*), the Borrower agrees to enter into such documents as may reasonably be required by a Lender to evidence such assignment, participation or pledge.

13.2 Assignment by Borrower.

The Borrower shall not assign all or any part of its rights, benefits or Obligations under this Agreement or any of the other Finance Documents to which it is a party without the prior written consent of the Lenders.

13.3 Assignment to OeKB Guarantor.

In the event that the OeKB Guarantor makes a payment pursuant to the OeKB Guarantee to any Covered Lender or the ECA Agent for the account of any Covered Lender, the Borrower and the Covered Lenders shall recognize the OeKB Guarantor's full rights of subrogation against the Borrower to the Covered Lender to whom the claim payment was made, including to share *pro rata* with the other Covered Lenders in any payments received and distributed according to the terms of this Agreement (subject, however, to the express provisions of Sections 4.4 (*Voluntary Prepayment*) and 4.7 (*Application*)).

Article 14 ADMINISTRATIVE PARTIES

14.1 Appointment of the Facility Agent.

(a)

- do so and act upon such notice or certificate unless the same is revoked or superseded by a further such notice or certificate;
- (iii) assume, absent written notice to the contrary, that the address, facsimile, email and telephone numbers for the giving of any written notice to any Person hereunder is that identified in Section 21.1 (*Notices*) until it has received from such Person a written notice designating some other office of a Person to replace any such address or facsimile or email or telephone number and act upon any such notice until the same is superseded by a further such written notice; and
- (iv) employ, the out-of-pocket costs and expenses of which shall be for the account of the Borrower, attorneys, consultants, accountants or other experts whose advice or services the Facility Agent may reasonably determine is necessary (*provided*, that,

- document referred to or provided for herein or therein or as a result of taking or omitting to take any action hereunder or in relation to any Finance Document, except to the extent of the Facility Agent's gross negligence, fraud or willful misconduct.
- (e) The Facility Agent is not obligated to monitor or enquire whether a Default or Event of Default has occurred. The Facility Agent shall not be deemed to have knowledge of or notice of the occurrence of a Default or Event of Default unless the Facility Agent has actual knowledge of such Default or Event of Default or has received a notice from a Finance Party, referring to this Agreement, describing such Default or Event of Default and stating that such notice is a "Notice of Default." If the Facility Agent has received notice from a Person describing a Default or Event of Default or receives such a "Notice of Default," the Facility Agent shall give proma

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- (ii) to check or inquire on its behalf into the adequacy, accuracy or completeness or any information provided by any Person in connection with any of the Finance Documents or the transactions therein contemplated (whether or not such information has been or is hereafter circulated to such Person by the Facility Agent); or
- (iii) to assess or keep under review on its behalf the financial condition, creditworthiness, condition, affairs, status or nature of any Person.

14.4 Role of the Mandated Lead Arranger.

(iii) (A) such Lender is an investment fund managed by a "Qualified Professional Asset Manager" (within the meaning of Part VI of PTE 84-14), (B) such Qualified Professional Asset Manager made the investment decision on behalf of such Lender to enter into, participate in, administer and perform the transactions contemplated by this Agreement and the Transaction Documents, (C) the entrance into, participation in, administration of and performance of the transactions contemplated by this Agreement and the Transaction Documents satisfies the requirements of

therewith, except to the extent caused by the gross negligence, fraud or willful misconduct of such Administrative Party, as determined by a court of competent jurisdiction. The Finance Parties party hereto each (for itself any Person claiming through it) hereby release, waive, discharge and exculpate such Administrative Party for any action taken or omitted under this Agreement, under the other Finance Documents or the OeKB Guarantee, as applicable, or in connection therewith, except to the extent caused by the gross negligence, fraud or willful misconduct of such Administrative Party as determined by a court of competent jurisdiction. Each Administrative Party will not be liable for any delay (or any related consequences) in crediting an account with an amount required under any Finance Document or the OeKB Guarantee, as applicable, to be paid by such Administrative Party if the Administrative Party has taken all necessary steps as soon as reasonably practicable to comply with the regulations or operating procedures of any recognized clearing or settlement system used by the Administrative Party for that purpose.

- (c) No Finance Party (other than the relevant Administrative Party (as applicable)) may take any proceedings against any officer, employee or agent of an Administrative Party in respect of any claim it might have against such Administrative Party or in respect of any act or omission of any kind by such officer, employee or agent in relation to any Finance Document, the OeKB Guarantee, as applicable, except in respect of proceedings for fraud. Any officer, employee or agent of an Administrative Party may enforce and enjoy the benefit of this Section 14.8 (*Exclusion of Liability*).
- (d) Nothing in this Agreement shall obligate any Administrative Party to carry out:
 - (i) any "know your customer" or other checks in relation to any person; or
 - (ii) any check on the extent to which any transaction contemplated by this Agreement might be unlawful for any Lender,

on behalf of any Lender and each Lender confirms to each Administrative Party that it is solely responsible for any such checks it is required to carry out and that it may not rely on any statement in relation to such checks made by any other Administrative Party.

(e) Without prejudice to any provision of any Finance Document or the OeKB Guarantee, as applicable, excluding or limiting an Administrative Party's liability, any liabiexc43.2(r)39(oc)41.8(t)2

14.9	Lender's	Indemnity.
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(a) Without limiting the liability of the Borrower under the Finance Documents, each

- (b) The Facility Agent may at any time and shall, if requested to do so by the Majority Lenders, convene a meeting of the Lenders.
- (c) Any Lender may by notice to the Facility Agent appoint a person to receive on its behalf all notices, communications, information and documents to be made or dispatched to such Lender under the Finance Documents or the OeKB Guarantee, as applicable.
 - (i) Any such notice:
 - (A) shall contain the address, fax number and (where communication by electronic mail or other electronic means is permitted under a Finance Document or the OeKB Guarantee, as applicable) electronic mail address and any other information required to enable the sending and receipt of information by that means (and, in each case, the department or officer, if any, for whose attention communication is to be made); and
 - (B) shall be treated as a notification of a substitute address, fax number, electronic mail address, department and officer by such Lender for the purposes of the Finance Documents or the OeKB Guarantee, as applicable.
 - (ii) The Facility Agent is entitled to treat such person as the person entitled to receive all such notices, communications, information and documents as though that person were such Lender.
- (d) The Facility Agent shall keep a record of all Finance Parties and supply any other Finance Party with a copy of the record on request. The record shall include each Lender's contact details for the purposes of the Finance Documents and the OeKB Guarantee, as applicable, and its lending office.

14.12

rights and powers in its capacity as a Covered Lender as any other Covered Lender and may exercise the same as though it were not the ECA Agent, and such bank and its

and may exercise the same as though it were not such Agent. The term "Lender" or "Finance Party", when used with respect to each Agent, shall unless otherwise expressly indicated, include such Agent in its individual capacity. Each Agent and its Affiliates may accept deposits from, lend money to, act as trustee under, act as financial advisor or in any other advisory capacity for and generally engage in any kind of business with, any Person as if such Agent were not the applicable Agent hereunder, without any duty to account therefor to the Lenders or Finance Parties.

Article 15 CONDUCT OF BUSINESS BY THE FINANCE PARTIES

15.1

(b)

(b) Each payment in respect of costs, expenses or Taxes shall be made in the currency in which the costs, expenses or Taxes are Incurred.

16.8 Change of Currency.

(a)

(a)	the application of any Write-Down and Conversion Powers by the applicable Resolution Authority to any such liabilities arising her2ji2j-7-522(he)3.9or(i)-2(o7(su)-9(my)-50r)30.8(t41.9r)2.9(liabilities arising her2ji2j-7-522(he)3.9or(i)-2(liabilities arising her2ji2j-7-522(he)3.9or(i)-2(l

(including any interest rate or margin on any Loans, the amount of any Commitments and the amount of any fees related to the transactions contemplated by the Agreement and the other Finance Documents) and any non-public information concerning the other party or its business and operations (the "

- (a) This Article 20 (*Confidential Information*) constitutes the entire agreement between the Finance Parties in relation to the obligations of the Finance Parties under the Finance Documents and the OeKB Guarantee regarding Confidential Information and supersedes any previous agreement, whether express or implied, regarding Confidential Information.
- (b) No Finance Party will be liable for any loss, cost, liability or other claim in connection with the Confidential Information beyond reasonably foreseeable losses and will not be liable for lost profits or consequential or punitive damages.

20.3

Email(s): Arnie Jahn (<u>ASJahn@uss.com</u>), Laurie Wiggins (<u>LAWiggins@uss.com</u>)

Copy to:

600 Grant Street, Room 1874 Pittsburgh, Pennsylvania 15219 Attention: Scotland M Duncan (Scot)

Email(s): smduncan@uss.com

22.2 Reliance and Non-Merger.

All covenants, agreements, representations and warranties of the Borrower made herein or in any other Finance Document or in any certificate or other document signed by any of its directors or

- (c) Except as otherwise expressly provided in the relevant agreement or document, no waiver, consent, annulment, modification or supplement of any term or condition of any Finance Document may be given or granted by the Borrower or the Lenders.
- (d) Notwithstanding paragraph (a) above, an amendment, modification, supplement or waiver that relates to the rights, duties, protections or obligations of the Agents or the Mandated Lead Arranger (each in their capacity as such) may not be effected without the consent of the Agents or the Mandated Lead Arranger (as the case may be).
- (e) Notwithstanding paragraph (a) above, each Lender shall be required to consent in writing to any amendment, modification, supplement or waiver of:
 - (i) the definition of "Majority Lenders" or any other provision in the Finance Documents or the OeKB Guarantee specifying the number or percentage of Lenders required to waive, amend or modify any rights thereunder or make any determination or grant thereunder;
 - (ii) Section 11.1 (Conditions Precedent to the Closing Date), Section 11.2 (Additional Conditions Precedent to Covered Loans) and Section 11.3 (Additional Conditions Precedent to Commercial Loans);
 - (iii) a reduction in the Applicable Margin, or a reduction in the amount of any payment of principal, interest, fees or other amounts payable to a Lender under the Finance Documents:
 - (iv) an increase in, or an extension of, a Commitment or the Total Commitments;
 - (v) a change to the order of application of any reduction in the Commitments or any prepayment of Loans from the application thereof set forth in the applicable provisions of Section 4.2 (*Mandatory Prepayment*), Section 4.3 (*Voluntary Cancellation*), and Section 4.4 (*Voluntary Prepayment*);
 - (vi) a term or provision of a Finance Document that expressly requires the consent, approval or instructions of each Lender;
 - (vii) the right of a Lender to assign or transfer its rights or obligations under the Finance Documents in accordance with Section 13.1 (Assignment by Lenders);
 - (A) this Section 22.4 (Amendment and Waiver);
 - (B) Section 22.8 (Remedies Cumulative); or
 - (viii) change any provision in the Finance Documents relating to the *pro rata* nature of the Utilizations or any amount payable thereunder.
- (f) To the extent required by the OeKB General Terms and Conditions, the Lenders may need to receive prior written consent of the OeKB Guarantor prior to providing their consent in connection with an amendment or waiver that relates to:

any kind or description, whether in law or equity, whether in contract, or in tort or otherwise, against any other party hereto in any way relating to this Agreement or the other Finance Documents governed by New York law or the transactions relating hereto or thereto, in any forum other than the Supreme Court of the State of New York sitting in New York County or the United States District Court of the Southern District of New York

22.12 Waiver of Jury Trial.

EACH OF THE PARTIES HERETO HEREBY EXPRESSLY, KNOWINGLY, VOLUNTARILY AND INTENTIONALLY WAIVES THE RIGHT ANY OF THEM MAY HAVE TO A TRIAL BY JURY IN RESPECT OF ANY LITIGATION BASED ON, OR ARISING OUT OF, UNDER OR IN CONNECTION WITH THIS AGREEMENT OR ANY OTHER FINANCE DOCUMENT, OR ANY COURSE OF CONDUCT, COURSE OF DEALING, STATEMENTS (WHETHER VERBAL OR WRITTEN) OR ACTIONS OF ANY PARTY RELATING HERETO OR THERETO. THIS PROVISION IS A MATERIAL INDUCEMENT FOR THE PARTIES TO ENTER INTO THIS AGREEMENT.

22.13 USA PATRIOT Act.

To the extent that it is subject to the requirements of the USA PATRIOT Act or any other Anti-Money Laundering Laws, each Finance Party hereby notifies the Borrower that, pursuant to the requirements of the USA PATRIOT Act or any other Anti-Money Laundering Laws applicable to such Finance Party and the customer due diligence requirements for financial institutions of the Financial Crimes Enforcement Network (as published at 81 FR 29397, 31 CFR 1010, 1020, 1023, 1024, and 1026), it is required to obtain, verify and record information that identifies the Borrower and its direct and indirect beneficial owners, which information includes the name and address of

22.16 Severability.

as expressly stated herein or otherwise amended, the other Finance Documents are ratified and confirmed as remaining unmodified and in full force and effect with respect to all Obligations. This Agreement is not in any way intended to constitute a novation of the obligations and liabilities existing under the Original Credit Agreement or evidence payment of all or any portion of such obligations and liabilities.

- (b) The terms and conditions of this Agreement and the Agents' and the Lenders' rights and remedies under this Agreement and the other Finance Documents shall apply to all of the Indebtedness incurred under the Original Credit Agreement.
 - (c) On and after the Amendment and Restatement Effective Date, (i) all

IN WITNESS WHEREOF, this	Agreement has been execu	ted by the parties as of the dat@m&rst

UNITED STATES STEEL CORPORATION,

KFW IPEX-BANK GMBH,

as Mandated Lead Arranger and ECA Structuring Bank

By: <u>/s/ Peter Eysel</u>

Name: Peter Eysel Title: Director

By: /s/ Matthias Blömer

Name: Matthias Blömer Title: Vice President

KFW IPEX-BANK GMBH,

as Lender

By: <u>/s/ Peter Eysel</u>

Name: Peter Eysel
Title: Director

By: /s/ Matthias Blömer

Name: Matthias Blömer Title: Vice President

SCHEDULE 8.1(n)

SCHEDULE A COMMITMENTS

Covered Loan Lender Commitment

Initial Lender	Commitment (\$)	Address for Notices
KFW IPEX-BANK GMBH	Up to \$250,000,000 for the purpose of financing (a) 85% of the Eligible Project Costs, and (b) 100% of the OeKB Guarantee Premium	Palmengartenstrasse 5-9 60325 Frankfurt am Main Germany

Commercial Loan Lender Commitment

Initial Lender	Commitment (\$)	Address for Notices
KFW IPEX-BANK GMBH	Up to the Down Payment	KFW IPEX-BANK GMBH Palmengartenstrasse 5-9 60325 Frankfurt am Main Germany Attention: Alena Alemasova Contract Management – Metals & Mining (X1a3) Email: Email: alena.alemasova@kfw.de Telephone number: +49 69 7431 9117

[Signature Page Follows]

IN WITNESS WHEREOF, the undersigned have executed this Transfer Certificate as of the respective dates set forth below.

KfW IPEX-Bank GmbH, as Facility Agent and ECA Agent
ByName: Title: Date:
[Existing Lender]
ByName: Title: Date:
[Accepted and Agreed:
Exploratory Ventures, LLC, as the Borrower
By Name: Title: Date:] ²

² Include if the Borrower's consent is required pursuant to Section 13.1 of the Credit Agreement.

SCHEDULE C-1 COVERED LOAN UTILIZATION REQUESTS

PART I FORM OF COVERED LOAN UTILIZATION REQUEST - DISBURSEMENT NO. [•] -

From: [Primetals], as Exporter

	To:	KfW IPEX-Bank GmbH, as Facilit	y Agent and ECA Agent	
	Cc:	Exploratory Ventures, LLC, as Box	rrower	
	Dated	:		
	Ladies	s and Gentlemen:		
1.	(as ar Agree "Borro and Eo Lende disbur "paym Agree	mended, supplemented or otherwisement") by and among, inter alia, ower"), KfW IPEX-Bank GmbH ("ICA Structuring Bank, KfW IPEX-Bars party thereto from time to time. To seement to the Exporter under the nent step" no [•] as described under	edit Agreement dated as of December, 2022 see modified from time to time, the "Credit Exploratory Ventures, LLC as Borrower (the KfW IPEX-Bank") as Mandated Lead Arranger sank as Facility Agent and ECA Agent, and the Chis is a Covered Loan Utilization Request for a terms to the Credit Agreement and relates to r Schedule G ("Payment Steps") of the Credit not otherwise defined, herein have the meanings ment.	
2.		nnection with the Project Equipmer shall be borrowed on the following t	nt Supply Agreement, an Eligible Project Cost erms:	
		Proposed Utilization Date:	[•] which is a Business Day within the Covered Loan Commitment Period	
		Amount:	\$[] ³	
	We co	onfirm that the Amount is due and	payable, [and latnd pa 11(s)-92 Atã Hi	
3				

- 3. We refer to the attached Exporter's Certificate and Supporting Documentation and certify that the information specified therein is true and accurate and has not been amended or superseded as of the date of this Covered Loan Utilization Request.
- 4. This Eligible Project Cost Loan is to be made in respect of amounts due and payable under the Project Equipment Supply Agreement for [Eligible Goods and Services]/[Eligible Local Costs] in connection with invoice no [•] which is attached as part of the Supporting Documentation hereto.
- 5. The proceeds of this Eligible Project Cost Loan should be credited to the Exporter's account with the following details:

Account Number:
Account Holder:
Bank name:
ABA:
Reference:

- 6. We confirm that all documents supplied by us with respect to this Covered Loan Utilization Request are true copies and you may rely on the accuracy and completeness of all information and documents provided regarding this Covered Loan Utilization Request.
- 7. This Covered Loan Utilization Request is irrevocable.
- 8. THIS COVERED LOAN UTILIZATION REQUEST, THE RELATIONSHIP BETWEEN THE FINANCE PARTIES HERETO AND ANY CLAIM OR DISPUTE (WHETHER SOUNDING IN CONTRACT, TORT OR OTHERWISE) RELATING TO THIS COVERED LOAN UTILIZATION REQUEST OR SUCH OTHER FINANCE DOCUMENT OR SUCH RELATIONSHIP SHALL BE GOVERNED BY, AND CONSTRUED IN ACCORDANCE WITH, THE LAW OF THE STATE OF NEW YORK.

Yours faithfully
(Primetals Technologies Austria GmbH)
(Primetals Technologies USA LLC)

In each case an Authorized Signatory for and on behalf of the Exporter [Primetals]

PART II FORM OF COVERED LOAN UTILIZATION REQUEST - REIMBURSEMENT NO. [•] -

From:	Exploratory	Ventures, LLC	C, as Borrower

To: KfW IPEX-Bank, as Facility Agent and ECA Agent

Dated:

Ladies and Gentlemen:

- 1. We refer to the Amended and Restated Credit Agreement dated as of December ______, 2022 (as amended, supplemented or otherwise modified from time to time, the "Credit Agreement") by and among, inter alia, Exploratory Ventures, LLCas Borrower (the "Borrower"), KfW IPEX-Bank GmbH ("KfW IPEX-Bank") as Mandated Lead Arranger and ECA Structuring Bank, KfW IPEX-Bank as Facility Agent and ECA Agent, and the Lenders party thereto from time to time. This is a Covered Loan Utilization Request for a reimbursement to the Borrower under the terms to the Credit Agreement. All capitalized terms used, but not otherwise defined herein, have the meanings ascribed to such terms in the Credit Agreement.
- 2. We wish to borrow an Eligible Project Cost Loan on the following terms:

Proposed Utilization Date: [•] which is a Business Day within the Covered Loan Commitment

- (b) the currency and amount of the proposed Utilization comply with Section 3.3 (*Currency and Amount*) of the Credit Agreement;
- (c) the Interest Period of the proposed Utilization complies with Article 5 (*Interest, Interest Period, and Fees*) of the Credit Agreement;
- (d) each of the conditions specified in Section 3.1 (*Delivery of a Utilization Request*), Section 3.2 (*Completion of a Utilization Request*) and Section 11.2 (*Additional Conditions Precedent to Covered Loans*) of the Credit Agreement are satisfied on the date of this Covered Loan Utilization Request and shall be satisfied immediately after the Covered Loan is made on the Utilization Date or, if not so satisfied on either date, has in each case been waived by the Facility Agent in accordance with the Credit Agreement;
- (e) the representations and warranties of the Borrower set forth in Article 8 (*Representations and Warranties*) of the Credit Agreement are true and correct in all material respects (or, if qualified by "materiality," "Material Adverse Effect" or similar language, in all respects after giving effect to such qualification) as of such date (after giving effect to the Utilization requested hereunder); provided, that, to the extent that such representations or warranties specifically refer to an earlier date, they shall be true and correct in all material respects (or, if qualified by "materiality," "Material Adverse Effect" or similar language, in all respects after giving effect to such qualification) as of such earlier date;
- (f) no Default or Event of Default has occurred and is continuing or would result after giving effect to the Utilization requested hereunder;
- (g) since [December 31, 2021], no event, circumstance or condition has occurred and is continuing that has had or would reasonably be expected to have a Material Adverse Effect; and
- (h) we have no actual knowledge that any ECA Mandatory Prepayment Event has occurred and is continuing.
- 7. This Covered Loan Utilization Request is irrevocable.
- 8. THIS COVERED LOAN UTILIZATION REQUEST, THE RELATIONSHIP BETWEEN
 THE FINANCE PARTIES HERETO AND ANY CLAIM OR DISPUTE (WHETHER
 SOUNDING IN CONTRACT, TORT OR OTHERWISE) RELATING TO THIS COVERED
 LOAN UTILIZATION REQUEST OR SUCH OTHER FINANCE DOCUMENT OR SUCH
 RELATIONSHIP SHALL BE GOVERNED BY, AND CONSTRUED IN AC-4.8(U)2(N)2.9(A).7(h(I)1)

.....

Borrower Authorized Signatory for and on behalf of the Borrower Exploratory Ventures, LLC

PART III FORM OF COVERED LOAN UTILIZATION REQUEST - PREMIUM LOAN -

	From:	Exploratory	Ventures,	LLC,	as Borrower
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To: KfW IPEX-Bank, as Facility Agent and ECA Agent

Dated:

Ladies and Gentlemen:

- 1. We refer to the Amended and Restated Credit Agreement dated as of December 22, 2022 (as amended, supplemented or otherwise modified from time to time, the "Credit Agreement") by and among, inter alia, Exploratory Ventures, LLC as Borrower (the "Borrower"), KfW IPEX-Bank GmbH ("KfW IPEX-Bank") as Mandated Lead Arranger and ECA Structuring Bank, KfW IPEX-Bank as Facility Agent and ECA Agent, and the Lenders party thereto from time to time. This is a Covered Loan Utilization Request for a Premium Loan under the terms to the Credit Agreement. All capitalized terms used, but not otherwise defined herein, have the meanings ascribed to such terms in the Credit Agreement.
- 2. We wish to borrow a Premium Loan on the following terms:

[•] which is a Business Day
within the Covered Loan Commitment
Period
\$F 1 ⁵

- 3. The proceeds of this Premium Loan should be disbursed directly to the OeKB Guarantor.
- 4. We confirm each of the following:
 - (a) the proceeds of the proposed Utilization are required for the purpose set out in Section 2.3(a) (*Purpose and Use of Proceeds*) of the Credit Agreement;
 - (b) the currency and amount of the proposed Utilization comply with Section 3.3 (*Currency and Amount*) of the Credit Agreement;
 - (c) the Interest Period of the proposed Utilization complies with Article 5 (*Interest, Interest Period, and Fees*) of the Credit Agreement;
 - (d) each of the conditions specified in Section 3.1 (*Delivery of a Utilization Request*), Section 3.2 (*Completion of a Utilization Request*) and Section 11.2 (*Additional Conditions Precedent to Covered Loans*) of the Credit Agreement are satisfied on the date of this Covered Loan Utilization Request and shall be satisfied immediately after the Covered

⁵ Note to Draft: Pursuant to Section 3.3(b), the amount of each proposed Loan shall be a minimum of \$1,000,000, except for one Utilization from the Borrower and one Utilization from the Exporter for an amount less than \$1,000,000 in any calendar month.

Yours faithfully

			•									•		•					•							•			•										
Authorized	Si	ig	'n	a	to) 1	у	7]	fc	or	. ;	a	n	d	. (0	n	l	b	e]	h	a	11	f	C	ı	•	tl	10	е	I	3	o	rı	0	W	ve	er	

SCHEDULE D FORMS OF EXPORTER'S CERTIFICATE

Part I: Form of Exporter's Certificate - Disbursement

etals], as	Exporter
	etals], as

To: KfW IPEX-Bank GmbH, as Facility Agent and ECA Agent

Copy to: Exploratory Ventures, LLC, as Borrower

Dated:

Dear Sirs

1. We refer to the Amended and Restated Credit Agreement dated as of December _____, 2022 (the "Credit Agreement") by and among, inter alia, Exploratory Ventures, LLC as Borrower (the "Borrower"), KfW IPEX-Bank GmbH ("KfW IPEX-Bank") as Mandated Lead Arranger and ECA Structuring Bank, KfW IPEX-Bank as Facility Agent and ECA Agent, and the Lenders party thereto from time to time. All capitalized terms used, but not otherwise defined herein, have the meanings ascribed to such terms in the Credit Agreement. This is the Exporter's Certificate issued in respect of Covered Loan Utilization Request – Disbursement No. [•].

2. We confirm that:

(a) the copy/ies of the commercial invoice(s) attached to the Request [was/were] issued by us in respect of the following goods and services:

Item Description Amount Signature Date of Certificate [Latest Due Date]

The total amount due equals to USD [•] (the "Utilization Amount").

(b) The Utilization Amount remains due and payable but unpaid to us. The Utilization Amount should be paid to the Exporter's account as descri tithe C4(s)-1Os/Exportot(i)-2.8(l)-2(i)-2(z)

- (d) we have received the Down Payment from the Borrower which amount to in aggregate at least USD [•];
- (e) the Eligible Goods and Services have been supplied in accordance with the Project

Part II: Form of Exporter's Certificate - Reimbursement

From: [Primetals], as Exporter

To: KfW IPEX-Bank GmbH, as Facility Agent and ECA Agent

Copy to: Exploratory Ventures, LLC, as Borrower

Dated:

Dear Sirs

1. We refer to the Amended and Restated Credit Agreement dated as of December _____, 2022 (the "Credit Agreement") by and among, inter alia, Exploratory Ventures, LLC as Borrower (the "Borrower"), KfW IPEX-Bank GmbH ("KfW IPEX-Bank") as Mandated Lead Arranger and ECA Structuring Bank, KfW IPEX-Bank as Facility Agent and ECA Agent, and the Lenders party thereto from time to time. All capitalized terms used, but not otherwise defined herein, have the meanings ascribed to such terms in the Credit Agreement. This is the Exporter's Certificate issued in respect of Covered Loan Utilization Request – Reimbursement No. [•].

2. We represent and warrant that:

(a) we have received payments in an aggregate amount of USD [•] paid between [date] and [date] from the Borrower in accordance with the Project Equipment Supply Agreement and which relate to "payment step" no [•] as described under Schedule G ("Payment Steps") of the Credit Agreement (the "Relevant Payment(s)") in relation to

- Costs to be supplied and/or rendered in accordance with the Project Equipment Supply Agreement have been obtained and remain in full force and effect; and
- (g) we are not aware of any notification of the OeKB Guarantor requesting that further advances/deliveries/services be suspended or terminated under the Credit Agreement and/or the Project Equipment Supply Agreement (unless such notice has been withdrawn by the OeKB Guarantor).
- 3. We confirm that all documents supplied by us with respect to the relevant Covered Loan Utilization Request are true copies and you may rely on the accuracy and completeness of

Part III: Form of Completion Certificate concerning the Project Equipment Supply Agreement (this "Completion Certificate")

From: Exploratory Ventures, LLC, as Borrower

KfW IPEX-Bank, as Facility Agent and ECA Agent

Primetals, as Exporter

To:

Dated:

Dear Sirs

	We refer to the:
1.	Amended and Restated Credit Agreement dated as of December, 2022 (the "Credit Agreement") by and among, inter alia, Exploratory Ventures, LLC as Borrower (the "Borrower"), KfW IPEX-Bank GmbH ("KfW IPEX-Bank") as Mandated Lead Arranger and ECA Structuring Bank, KfW IPEX-Bank as Facility Agent and ECA Agent, and the Lenders party thereto from time to time
2.	Project Equipment Supply Agreement (as defined in the Credit Agreement)
3.	Commercial Invoice No. [] dated [] and issued by [Primetals Technologies Austria GmbH][Primetals Technologies USA LLC] in relation to the Covered Loan Utilization Request with disbursement no. [•] (hereafter "Exporter's Invoice")
4.	Supporting Documentation
	We certify that, subject to all terms, rights, conditions and obligations of the Parties under the Project Equipment Supply Agreement, all .8((1)-2.o.8(t)-k210.1(E)3.7(i)2(e)41.1(i)1(r)31.9(e)

Terms defined in the Agreement shall have the same meaning in this Completion Certificate unless given a different meaning in this Completion Certificate.

Yours faithfully

Authorized Signatory	Authorized Signatory
For Exploratory Ventures, LLC	For Primetals Technologies USA LLC

SCHEDULE E APPLICABLE MARGIN

Covered Loan: 0.95% per annum

Commercial Loan: 3.80% per annum

SCHEDULE F COMPLIANCE CERTIFICATE

To: KfW IPEX-Bank GmbH

Palmengartenstrasse 5-9 60325 Frankfurt am Main

Germany

Attention: Alena Alemasova

Contract Management – Metals & Mining (X1a3)

Email: <u>alena.alemasova@kfw.de</u>

Telephone number: +49 69 7431 9117

From: Exploratory Ventures, LLC

600 Grant Street, 61st Floor Pittsburgh, Pennsylvania 15219

Attention: Arne Jahn, Laurie Wiggins

Email(s): Arnie Jahn (<u>ASJahn@uss.com</u>), Laurie Wiggins (<u>LAWiggins@uss.com</u>)

Copy to:

600 Grant Street, Room 1874 Pittsburgh, Pennsylvania 15219 Attention: Scotland M Duncan (Scot)

Email(s): smduncan@uss.com

Date: []⁸

Re: Amended and Restated Credit Agreement, dated as of December _____, 2022, by and among, inter alia, Exploratory Ventures, LLC (the "Borrower"), KfW IPEX-Bank GmbH ("KfW IPEX-Bank") as Mandated Lead Arranger and ECA Structuring Bank, KfW IPEX-Bank as Facility Agent and ECA Agent, and the Lenders party thereto from time to time (as amended, amended and restated, supplemented or otherwise modified from time to time, the "Credit Agreement").

The undersigned hereby certifies as of the date hereof that [he/she] is an Authorized Officer of the Borrower as evidenced by an up-to-date Officer's Certificate, and that, as such, [he/she] is authorized by to execute and deliver this Compliance Certificate to the Facility Agent on the behalf of the Borrower, and hereby further certifies without personal liability on behalf of the Borrower, as follows:

1. This Compliance Certificate is furnished pursuant to Section 10.3 of the Credit Agreement (*Compliance Certificate; Notice of Default*). Unless otherwise defined in this Compliance Certificate, terms defined in the Credit Agreement are used in this Compliance

- 2. The undersigned has read and is familiar with the Credit Agreement including, in particular, the definitions of the various financial terms used in the Credit Agreement, the covenants and Events of Default contained in the Credit Agreement.
- 3. The undersigned has made, or has caused to be made under his/her supervision, such examinations or investigations as are, in the undersigned's opinion, necessary to furnish this Compliance Certificate, and the undersigned has furnished this Compliance Certificate with the intent that it may be relied upon by the Lenders as a basis for determining compliance by the Borrower with the covenants and obligations under the Credit Agreement as of the date of this Compliance Certificate.
- 4. This Compliance Certificate is delivered for the Fiscal Year ended [_] and attached hereto as <u>Schedule I</u> are the Borrower's audited annual consolidated financial statements for such Fiscal Year.

5.

·		
	EXPLORATORY VENTURES, LLC Borrower	as
	By: Name:	

IN WITNESS WHEREOF, the undersigned has executed this Certificate as of

Title:

SCHEDULE G PAYMENT STEPS

]Omitted.]

EXHIBIT A-1

FORM OF U.S. TAX COMPLIANCE CERTIFICATE

In witness whereof, the undersigned has duly executed and delivered this U.S. Tax Compliance Certificate as of the date first above written.

[NAME OF LENDER]

EXHIBIT A-2

FORM OF U.S. TAX COMPLIANCE CERTIFICATE (For Foreign Participants That Are Not Partnerships For U.S. Federal Income Tax Purposes)

U.S. TAX COMPLIANCE CERTIFICATE DATE: ______, 20_

Reference is hereby made to the Amended and Restated Credit Agreement dated as of December <u>22</u>, 2022 (as amended, supplemented or otherwise modified from time to time, the "<u>Credit Agreement</u>") by and among, inter alia, Exploratory Ventures, LLC as Borrower (the "<u>Borrower</u>"), KfW IPEX-Bank GmbH ("<u>KfW IPEX-Bank</u>") as Mandated Lead Arranger and ECA Structuring Bank, KfW IPEX-Bank as Facility Agent and ECA Agent, and the Lenders party thereto from time to time.

Pursuant to the provisions of Article 6 of the Credit Agreement, the undersigned hereby certifies that (a) it is the sole record and beneficial owner of the participation in respect of which it is providing this certificate, (b) it is not a bank within the meaning of Section 881(c)(3)(A) of the Code, (c) it is not a ten-percent shareholder of the Borrower within the meaning of Section 871(h)(3)(B) of the Code, and (d) it is not a controlled foreign corporation related to the Borrower as described in Section 881(c)(3)(C) of the Code.

The undersigned has furnished its participating Lender with a certificate of its non-U.S. Person status on IRS Form W-8BEN or IRS Form W-8BEN-E. By executing this certificate, the undersigned agrees that (i) if the information provided on this certificate changes, the undersigned shall promptly so inform such Lender in writing, and (ii) the undersigned shall have at all times furnished such Lender with a properly completed and currently effective certificate in either the calendar year in which each payment is to be made to the undersigned, or in either of the two calendar years preceding such payments. For the avoidance of doubt, any reference herein to any IRS Form shall be deemed to include any applicable successor form.

In witness whereof, the undersigned has duly executed and delivered this U.S. Tax Compliance Certificate as of the date first above written.

[NAME OF PARTICIPANT]

By:				
	Name:			
	Title:			

In witness whereof, the undersigned has duly executed and delivered this U.S. Tax Compliance Certificate as of the date first above written.

[NAME OF PARTICIPANT]

By:				
	Name:			
	Title:			

EXHIBIT A-4

FORM OF U.S. TAX COMPLIANCE CERTIFICATE (For Foreign Lender Parties That Are Partnerships For U.S. Federal Income Tax Purposes)

U.S. TAX COMPLIANCE CERTIFICATE DATE: , 20_

Reference is hereby made to the Amended and Restated Credit Agreement dated as of December ____, 2022 (as amended, supplemented or otherwise modified from time to time, the "Credit Agreement") by and among, inter alia, Exploratory Ventures, LLC as Borrower (the "Borrower"), KfW IPEX-Bank GmbH ("KfW IPEX-Bank") as Mandated Lead Arranger and ECA Structuring Bank, KfW IPEX-Bank as Facility Agent and ECA Agent, and the Lenders party thereto from time to time.

Pursuant to the provisions of Article 6 of the Credit Agreement, the undersigned hereby certifies that (a) it is the sole record owner of the Loan(s) (as we8 513.3P9.9(()2(a)4-2(e)86/MCID 14(i)-2(fN.1(

- 1 -

In witness whereof, the undersigned has duly executed and delivered this U.S. Tax Compliance Certificate as of the date first above written.

[NAME OF LENDER]

By:				
	Name:			
	Title			

ÐHIFGAFNFÐŁLIMFA Í GGIÐFJAÐFJLIGIÐËLI Í Í

IÂA€ÑÙÓÓAÈÀAÈÜUUÖÛÛÂAŒÔUÛÖXAÛØÑÛÉ

IAØÑÙÔAUÔÙĴÔVÔÓAĴØĴŰAÞÜÑUĴÔUΩXAUÔTŠUĴAŠSAGŠURABÃÄ Ì AŠŮAŁSŮĴÔÓAKŮÑŮÔÚAKŮÔÔ0AЊUTŠUÑŮĴŠSĖ

ÈÑÚÔÓAŠSARXAPSŠ VIÔÓÒÔÂAÛØÛÚAUÔT ŠUŮAÓŠÔÚASŠÚAŒŠSÛÑÛSAÑSXAÜSÛUÜÔAÚŮÑÛÔ RÔSÛAŠÔAÑA RÑÛÔUÔÑŒĴAŠUAŠ RŮŨAŮŠAÚÛÑŰÔAÑA RÑÛÔUÔÑA ÔÑŒĴASÔŒÔÚÚÑUXAŮŠA RÑPÔAŮØÔAÚŮÑUÔ RÔSŮÚA RÑÓÔÂAÔSAQÎÒØÛA ŠÔAÛØÔAŒĴUŒÜ RÚŮÑSŒÔÚA ÜSÓÔUA VØĴŒØAÚÜŒØAÚŮÑUÔ RÔSŮÚA VÔUÔA RÑÓÔÂA SŠŮA RŮÚVÔÑÓĴSÒAVŮŮØAUÔÚTÔŒĴAŮŠAŮØÔATÔUŮŠÓAŒŠÙÔUÔÓAOXAÛØŮÚAUÔT ŠUŮÊ

EÑÚÔÓAŠSAR XAPSŠ VIÔÓÒÔÂAÙØÔAÑSÑSŒĬÑUAÚŮÑŮÔR ÔSŮÚÁAÑSÓAŠÙØÔUAÑSÑSŒĬÑUAÑSŮŠUR ÑŨŠSAÌSŒŨÓÔÓAÌSAÙØŮÚAUÔT ŠUŮÁAÑÑŮUXATUÔÚÔSÙAÌSA ÑWA R ÑŮÔUŤÑUA UÔÚTÔŒŮÚA ÙØÔA ÑSÑSŒĬÑUA ŒŠSÓÑĴŠSÁA UÔÚÜQŮÚA ŠÕA ŠTÔUÑŨŠSÚA ÑSÓA ŒÑÚØA ÑŠVÚA ŠÕA ÙØÔA UÔÒŮÚUÑSŮA ÑÚA ŠÕÁA ÑSÓA ÔŠUÁA ÙØÔA TÔNÍŠÓÚATUÔÚÔSŮÔÓAĴSAĴØĬÚAUÔTŠUŮĖ

LØÔA UÔÒÒÚÚUÑSŮÝÚA ŠÚØÔUA ŒÔUÚÚXÁSÒA ŠČÚÚŒÔUA ÑSÓA IA ÑUÔA UÔÚTŠSÚÚOAÔA ŮŠUA ÔÚÚÑOXÍÚVØÔSÒA ÑSÓA R ÑÍSŮÑÍSÔSÒA ÓŮÚŒIŠÚÜUÔA ŒŠSŮUŠAÚA ÑSÓA TUŠŒÔÓÜUÔÚAĒKÚA ÓÔÔÚSÔÓAÔSA FWŒØÑSÒÔAËŒŨA J ÜRÔÚABÇÑÄBDÆÔÁAÑSÓABDÓÄBDÆÔÁÁNÑSÓABDÓÄBDÆÔÁÁNŠÓAÔSŮÔUSÑAŒŠSŮUŠAAŠÙÔUAÓÍSŇSŒĬÑAUÔTŠUŮÍSÒAÆÑÚA ÓÔÔÚSÔÓAÔSA FWŒØÑSÒÔÆŒŨA J ÜRÔÚABÇÑÄBDÆÁÁAÑSÓABDÓÄBDÆÁÁAÔŠUAŮØÔAUÔÒŮÚUÑSŮAÑSÓAØÑÙÔÉ

€ÔÚIÒS ÔÓA ÚÜŒØA ÓÒÚŒIŠÚÜUÔAŒŠSŮUŠIÚA ÑSÓATUŠŒÔÓÜUÔÚÂAŠUAŒNÜÚÔÓAÚÜŒØA ÓÒÚŒIŠÚÜUÔAŒŠSŮUŠIÚA ÑSÓATUŠŒÔÓÜUÔÚAŮŠAOÔA
ÓÔÚIÒS ÔÓA ÜSÓÔUA ŠÜUA ÚÜTÔUÙÍÚÒŠSÁA ŮŠA ÔSÚÜUÔA ÜØÑÜA RÑIÔUÍÑIA ÍSIŠURÑIÍŠSA UÔIÑÜISÒA ÜŠA ÜØÔA UÔÒÍÚÜUÑSÜÄA ÍSŒIÜÓÌSÒA ÜÚA
ŒŠSÚŠIÍÓÑIÔÓAÚÜUOÚÍÓÍÑUÌÔÚÀAÍÚA RÑÓÔAPSŠVSAŬŠAÜÚAOXAŠÜØÔUÚA VÜØÌSAÙØŠÚÔAÔSÜÜÎÔÚÁATÑUÜŒÜIÑUIXAÓÜUÌSÒAÜØÔATÔUÌŠÓAÌSA
VØĬŒØAÜØĬÚAUÔTŠUŮÁŮÁAOÔÍSÒATUÔTÑUÔÓÉ

FÙÑNÜÑŮÔÓAÛØÔAÔÔÔŒĴŮÙÔSÔÚÚAŠÔAÛØÔAUÔÒŮÚŮUÑSŮÝÚAÓŮÚŒŠSŮUŠAÚAÑSÓATUŠŒÔÓÜUÔÚAÑSÓATUÔÚÔSÜÔÓAÔSAÛØÍÚAUÔTŠUŮA ŠÜUAŒŠSŒNÏÚŮŠSÚAÑOŠÜŮAÙØÔAÔÔÔŒĴŮÙÔSÔÚÚAŠÔAÙØÔAÓŮÚŒŖŠÚŮUÔAŒŠSŮUŠQÚAŇSÓATUŠŒÔÓÜUÔÚÁAŇÚAŠÔAÙØÔAÔSÓAŠÒAÙØÔATÔVŮŠÓA ŒŠÙÔUÔÓAOXAÙØÍÚAUÔTŠUŮAOŇÚÔÓAŠSAÚÜŒØAÔÙŇŮĬŇŮĬŠSĖAÑSÓ

€ŮÚŒIŠÚÔÓA ŮSA ŮØŮÚA UÔTŠUŮA ÑSXA ŒØÑSÒÔA ŮSA ŮØÔA UÔÒŮÚŮUÑSŮĬÚA ŮSŮÔUSÑA ŒŠSŮUŠŮA ŠÙÔUA ÔŮSÑSŒĒÑŨA UÔTŠUŮÍSÒA ŮØÑŮA ŠŒŒÜUUÔÓA
ÓÜUŮSÒAŮØÔAUÔÒŮÚUÑSŮĬÚA R ŠÚŮAUÔŒÔSŮAÔŮÚŒÑŨAÞÜÑUŮÔUAÆŮØÔAUÔÒŮÚŮŰÑSŮĬÚAČŠÜUŮØAÔŮÚŒÑŨAÞÜÑUŮÔUAÔSAŮØÔAŒÑÚÔAŠŮAÑSAÑSSÜÑŨA
UÔTŠUŮÁAŮØÑŮA ØŇÚA R ÑŮÔUŮŇŒXA ŇÔŮÔŒŮÔÓÅA ŠUAŮÚA UÔŇÚŠSŇOXA ØPÔXAŮŠA R ÑŨÔUŮŇŒXA ÑÔŮÔŒŮÂA ŮØÔAUÔÒŮÚŮNSŮĬÚA ŮSŮÔUSŇIAŒŠSŮUŠŨA
ŠÙÔUAÔĴSŇSŒŮŇOAUÔTŠUŮŮSÒĚAŇSÓ

Exhibit 31.2

HÏÌÍÎAÍÓÍHOÑÌŒÍAKÎÎÌHÍM HÍMÑÌÎÌHFÑÌKJALOMNOFJÑAÑK BËAOÀNÀHÀANÍHÑÌKJABÇEÃ

G Î ÏHTATÎKFKGÎFJALTTÎGHN GHNOÎTÎGFOÎLKAŁŒNÑŒFKOAOL BËAŒÁÑÁGÀAÑHGOÎLKABÇEĂ

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L SÞŐHÁ Í ÖØÖÜÖSH L SÞŐHA OÖPÖIÝHÓÞØ Î ÖÖSVRHGØT SÞSÚVŰÖNSUÞ HÁ LO Î GHÁÏ I H	ŒJVÔŚĄŒĄUP OSQÞSYSÓÔÞI Â OWOÙVÔÞVSĆ XSUSÔVSUÞÙ WÞØÕÜĄ ŸÇCÉÄÔÁÅ ^{ÁČ}	A	ŒIJŶĠśĸŒĸŪP WÞYĠŨĬĠÞŶĠĠŎ ŶĠŚŴĬŎ ĠŚĸŎſĸŪÞŨĸŌÞØ ŪĬØĠĬŨĸWÞØĠĬ ŸÇĊĔĀØŔĸ ^{ŎŎ}	ŒIJŶŌĠĸŒĸIJŖ X\$IJĠŌŀŖIJĠŬ WĠŎŨ ŸÇÇĊĀŌĂĀŌĀĸ ^{ĀŌĀ}	ŒJVÔŠAÆAUP UŮØŎŮÙ WÞØŎŮ ŸÇCÈÄÔÀA ^{ÄŌÀ}	ŒIJŶŎĠŖŒŬĠŨ XŌĠŖŎŖIJŖ ŬŨŨŨŨŎŎ ŌŨŨŌŨŨŦŌÞŶŨ PŨIJŦ LOÎG	ŒIJVÔŚAÆAUP TSPSPQ ŪŌŚŌVŌØ PÔVÔŚSVSŌÙ	ÑÕÒÕSXÕØ ŁUVSÒÕAUP NÔWÕÜÞAUP ÓSUSÕISUÞÙ WÞØÕÜ ŸÇÇÉÄÕÄÄ	ÑÕÒŌ\$XÕØAŁ U\\SÕÕ UPANU\ÕÞ\\SÕ\$A\U RÕXÕANÕ\ÕÜÞ WÞØÕÜA ŸÇÇÉÄÕÀA ^{ÄÒÄ} A ÄŸÕÙBÞUÄF	GÖVSÜLÜÜÄNÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜÜ	KÕQÔŚ GÖVSUÞÙ ĬÞSVSÔVÕØ I WŪSÞQ NÕÜSUØ	KÕQÔŚ GÒWUÞÙ ÑÕÙUŚXÕØ I WÜSÞQ NÕÜSUØ	
L VÂĂÏÜUÞ ÄDÇCCÐDCÅADÇCCDÐDÀ	A 2	ZA Z	Z	Z	Z	ÁEEDÁCÉÇ	Z	ÞU	ÞU	ۂ	ÇC€	ËD	
JÕÕYÔ\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	A 2	ZA Z	Z	Z	Z	ÁZ	Z	ÞU	ÞU	Z	Ê	Ð	

ÃÕà ÑÕPÕŨÕÞÒÕÙAYUAOÕÒYSUÞAÞW⊤ÖÕÜÙAÔŨÕAYUAÙÕÒYSUÞÙAUPAYRÕA Í ÕØÕŨÔŠA L SÞÕAOÔPÕYÝAÔÞØA Î ÕÕŠYRAGÒYAUPAÇ€ÈÈĀ

ĨÞÓŚWØŐÙÁÔŚŚŚŌQÔŚÁÔÒNSUÞÙÁÚŐÞØSÞQÁÖĞPUŰŐÁVRŐÁ Í ŐØŐÜÔŚÁ L SÞŐAOÔPŐVÝÁÔÞØÁ Î ŐÓŚVRÁÑŐXSŐYAHUT TSÙÙSUÞÁAVUQŐVRŐŰÁYSIRAVRŐAGØTSÞSÙVŰÓNSXŐAKÔYA Ì WØQŐÙÁVRŐŰÓPÁÁPUŰÁŐÒÒRAUPAUWŰASŰUÞÁUÚŐÓÚÓNSUÞÙÁÁŒRŐŮÓÁ
ÔÒNSUÞÙÁ TÔÝARÔXŎAÖŐ ÞASÞSNSÔVŐØASÞÁÚÚSUŰÁ ÛWÔŰVŐÜÚÁGŚŚÁÖWNAUÞÓAUPAVRŐAŚŌQÓŚÁÔÒNSUÞÙÁ YŐŰŐASÞSNSÔVŐØAÖÝAWÙÁVUAÒUÞVŐŮVÁÒSNÔNSUÞÚÁÐÚÐØŰÜÁUÚÁÚUÚÚÚÒØÁÔÙÚTŐÞVÙÁSÙÚWŐØÁÖÝAVRŐA Í ŐØŐŰÓŚÁ L SÞŐAOÔPÓNÝÁÔÞØA
Î ŐŐŚVRÁÔØTSÞSÙVŰÔNSUÞÙÁÁ MÞŐÁŚÕQÓŚÁÔÒNSUÞÁ YÔÚÁSÞSNSÔVŐØÁÖÝÁÔÞÁ ÓTÚŚUÝŐŐÁWÞØŐÚÁOÓNSUÞÁÇCÊÁÒÁÁUPÁVRŐA L SÞŐAGÒVÁÁAGÚÁUPÁVRŐÁŚÔÚVAØÔÝAUPÁVRŐÁÚŐÜSUØÁÁÓŚÁÆÇÁŚŌQÓŚÁÔÒNSUÞÚÁ YŐŰŐÁVUÁÒUÞVŐÚVÁÔSNÔNSUÞÚÁÓÞØÁ
ÚŰÚÚÚŮŐØÁÔÙŮŐŮŮŤŐÞVŮÁ