LCH SA - Risk Notice - Margin Eligible Securities Collateral and Haircut Schedule		Haircuts on 23/11/2022		
Eligible Government Securities		Buckets	Haircuts (Conventional Bonds)	Haircuts (Inflation Linked Bonds)
	Debt Securities issued by the Australian State:	11 business days and < = 0,5 year	0.50%	N/A
	Australian Treasury Bill (ACTB) Australian Government Bond (ACGB)	> 0.5 and < = 1 year	0.75%	N/A
	Australian Government Bond (ACGB)	> 1 and < = 3 years	1.25%	N/A
Australia		> 3 and < = 5 years	2.25% 2.75%	N/A
Australia		> 5 and < = 7 years > 7 and < = 10 years	4.00%	N/A N/A
		> 10 and < = 15 years	6.50%	N/A
		> 15 and < = 30 years	14.00%	N/A
		> 30 and < = 50 years	N/A	N/A
	Debt Securities issued by the Austrian State:	4 business days and < = 0,5 year	0.50%	N/A
	Austrian Treasury Bill (RATB)		0.75%	
	Austrian Government Bond (RAGB)	> 0.5 and < = 1 year > 1 and < = 3 years	1.50%	N/A N/A
		> 3 and < = 5 years	2.50%	N/A
Austria		> 5 and < = 7 years	3.00%	N/A
		> 7 and < = 10 years	3.75%	N/A
		> 10 and < = 15 years	5.50%	N/A
		> 15 and < = 30 years	12.25%	N/A
		> 30 and < = 50 years	16.50%	N/A
	Debt Securities issued by the Belgian state:	4 business days and < = 0,5 year	0.50%	N/A
	Belgian Treasury Bill (BGTB)	> 0.5 and < = 1 year	1.00%	N/A
	Belgian Government Bond (BGB)	> 1 and < = 3 years > 3 and < = 5 years	2.00% 2.75%	N/A N/A
Belgium		> 5 and < = 7 years	4.25%	N/A
		> 7 and < = 10 years	5.25%	N/A
		> 10 and < = 15 years	7.50%	N/A
		> 15 and < = 30 years	14.00%	N/A
	Debt Securities issued by the Canadian State:	> 30 and < = 50 years	18.75%	N/A
	Canadian Treasury Bill (CTB)	10 business days and < = 0,5 year	0.50%	N/A
	Canadian Government Bond (CAN)	> 0.5 and <= 1 year	0.50%	N/A
		> 1 and < = 3 years	1.00%	N/A
Canada		> 3 and < = 5 years > 5 and < = 7 years	1.75%	N/A
		> 7 and < = 10 years	2.25% 3.00%	N/A N/A
		> 10 and < = 15 years	4.25%	N/A
		> 15 and < = 30 years	8.25%	N/A
		> 30 and < = 50 years	11.00%	N/A
	Debt Securities issued by the Danish State:	6 business days and < = 0,5 year	0.50%	N/A
	Danish Treasury Bill (DGTB)	> 0.5 and <= 1 year	0.50%	N/A
	Danish Government Bond (DGB)	> 1 and < = 3 years	1.25%	N/A
		> 3 and < = 5 years	1.75%	N/A
Denmark		> 5 and < = 7 years	2.50%	N/A
		> 7 and < = 10 years	3.50%	N/A
		> 10 and < = 15 years > 15 and < = 30 years	5.25% 12.50%	N/A N/A
		> 30 and < = 50 years	N/A	N/A N/A
	Debt Securities issued by the Finnish State:	4 business days and < = 0,5 year	0.50%	N/A
	Finnish Treasury Bill (RFTB)	> 0.5 and <= 1 year	0.50%	N/A
	Finnish Government Bonds (RFGB)	> 1 and < = 3 years	1.25%	N/A
		> 3 and < = 5 years	2.00%	N/A
Finland		> 5 and < = 7 years	2.75%	N/A
		> 7 and < = 10 years	3.75%	N/A
		> 10 and < = 15 years	5.50%	N/A
		> 15 and < = 30 years	11.25%	N/A
	Debt Securities issued by the French state:	> 30 and < = 50 years 4 business days and < = 0,5 year	15.00% 0.50%	N/A 0.75%
	Bons du Trésor à Taux Fixe et Intérêt Précompté (BTF)	> 0.5 and < = 1 year	0.50%	1.25%
	Bons du Trésor à Taux Fixe et Intérêt Annuel (BTNS)	> 1 and < = 3 years	1.25%	2.00%
	Bons du Trésor à Taux Fixe et Intérêt Annuel I/L (BTNS)	> 3 and < = 5 years	2.00%	3.00%
France	Obligations Assimilables du Trésor (FRTR)	> 5 and < = 7 years	2.75%	4.00%
	Obligations Assimilables du Trésor I/L (FRTR)	> 7 and < = 10 years > 10 and < = 15 years	3.75% 5.50%	5.00% 6.25%
		> 10 and < = 15 years > 15 and < = 30 years	11.50%	14.00%
		> 30 and < = 50 years	15.50%	18.75%
	Debt Securities issued by the German Federal State:	3 business days and < = 0,5 year	0.50%	0.50%
	German Treasury Bill (BUBILL)	> 0.5 and < = 1 year	0.50%	1.00%
	Bundesschatzanweisungen (BKO)	> 1 and < = 3 years > 3 and < = 5 years	1.25% 2.00%	1.75%
Germany	Bundesobligationen (OBL) Bundesobligationen I/L (OBLI)	> 3 and < = 5 years > 5 and < = 7 years	2.50%	2.75% 3.25%
	Deutsche Bundesrepublik (DBR)	> 7 and < = 10 years	3.50%	4.25%
	Deutschland I/L (DBRI)	> 10 and < = 15 years	5.00%	6.50%
		> 15 and < = 30 years	11.25%	11.25%
	Dobt Cognition issued by the Italian Chat-	> 30 and < = 50 years	15.00%	15.00%
	Debt Securities issued by the Italian State:  Buoni Ordinari del Tesoro (BOTS)	3 business days and < = 0,5 year > 0.5 and < = 1 year	6.00% 6.00%	6.00% 6.00%
	Buoni del Tesoro Poliennali (BTPS)	> 1 and < = 3 years	7.00%	7.00%
	Buoni del Tesoro Poliennali I/L (BTPS)	> 3 and < = 5 years	9.00%	10.00%
Italy	Certificati di Credito del Tesoro (CCTS)	> 5 and < = 7 years	10.50%	12.00%
		> 7 and < = 10 years	11.50%	14.25%
		> 10 and < = 15 years > 15 and < = 30 years	13.00% 21.75%	15.75% 21.75%
		> 15 and < = 30 years > 30 and < = 50 years	26.50%	21.75%
	Debt Securities issued by the Japanese State:	6 business days and < = 0,5 year	0.50%	N/A
	Japanese Treasury Bill (JGTB)	> 0.5 and <= 1 year	0.50%	N/A
	Japanese Treasury Discount Bill (JTDB)	> 1 and < = 3 years	0.50%	N/A
	Japanese Government Bond (JGB)	> 3 and < = 5 years	1.00%	N/A
Japan		> 5 and < = 7 years	1.50%	N/A
		> 7 and < = 10 years	2.00%	N/A

		. 40 45	2.000/	21/2
		> 10 and < = 15 years	3.00%	N/A
		> 15 and < = 30 years	8.25%	N/A
	Dobt Considers issued by the Dytah Chate.	> 30 and < = 50 years	11.00% 0.50%	N/A
	Debt Securities issued by the Dutch State: Dutch Treasury Certificate (DTB)	10 business days and < = 0,5 year > 0.5 and < = 1 year	0.50%	N/A N/A
	Dutch Government Bond (NETHER)	> 1 and < = 3 years	1.25%	N/A N/A
		> 3 and < = 5 years	2.00%	N/A
Netherlands		> 5 and < = 7 years	2.25%	N/A
		> 7 and < = 10 years	3.50%	N/A
		> 10 and < = 15 years	5.00%	N/A
		> 15 and < = 30 years	11.00%	N/A
		> 30 and < = 50 years	14.75%	N/A
	Debt Securities issued by the Norwegian State:	9 business days and < = 0,5 year	0.75%	N/A
	Norwegian Treasury Bill (NGTB)	> 0.5 and < = 1 year	1.00%	N/A
	Norwegian Government Bond (NGB)	> 1 and < = 3 years	1.50%	N/A
		> 3 and < = 5 years	2.25%	N/A
Norway		> 5 and < = 7 years	3.00%	N/A
		> 7 and < = 10 years	4.00%	N/A
		> 10 and < = 15 years	6.25%	N/A
		> 15 and < = 30 years	N/A	N/A
		> 30 and < = 50 years	N/A	N/A
	Debt securities issued by the Portuguese State	3 business days and < = 0,5 year	8.25%	N/A
	Portuguese Treasury Bill (PORTB)	> 0.5 and <= 1 year	11.50%	N/A
	Portuguese Government bond (PGB)	> 1 and < = 3 years	21.25%	N/A
not set		> 3 and < = 5 years	27.25%	N/A
Portugal		> 5 and < = 7 years > 7 and < = 10 years	32.25%	N/A
		> 7 and < = 10 years > 10 and < = 15 years	32.25% 32.25%	N/A N/A
		> 15 and < = 30 years	47.00%	N/A N/A
		> 30 and < = 50 years	54.00%	N/A
	Debt Securities issued by the Spanish State:	3 business days and < = 0,5 year	2.25%	N/A
	Spanish Letras del Tesoro (SGLT)	> 0.5 and <= 1 year	3.00%	N/A
	Spanish Government Bond (SPGB)	> 1 and < = 3 years	6.50%	N/A
		> 3 and < = 5 years	9.25%	N/A
Spain		> 5 and < = 7 years	10.50%	N/A
		> 7 and < = 10 years	12.25%	N/A
		> 10 and < = 15 years	15.25%	N/A
		> 15 and < = 30 years	25.50%	N/A
		> 30 and < = 50 years	31.50%	N/A
	Debt Securities issued by the Swedish State:	4 business days and < = 0,5 year	0.50%	N/A
	Swedish Treasury Bill (SWTB)	> 0.5 and <= 1 year	0.50%	N/A
	Swedish Government Bond (SGB)	> 1 and < = 3 years	1.00%	N/A
		> 3 and < = 5 years	1.75%	N/A
Sweden		> 5 and < = 7 years	2.25%	N/A
		> 7 and < = 10 years	3.50%	N/A
		> 10 and < = 15 years	5.50%	N/A
		> 15 and < = 30 years	11.75%	N/A
		> 30 and < = 50 years	N/A	N/A
	Debt Securities issued by the Swiss State:	3 business days and < = 0,5 year	0.50%	N/A
	Swiss Treasury Bill (SWISTB)	> 0.5 and < = 1 year	0.50%	N/A
	Swiss Government Bond (SWISS)	> 1 and < = 3 years	1.50%	N/A
		> 3 and < = 5 years	1.75%	N/A
Switzerland		> 5 and < = 7 years	2.25%	N/A
		> 7 and < = 10 years	3.50%	N/A
		> 10 and < = 15 years	5.25%	N/A
		> 15 and < = 30 years	13.50%	N/A
		> 30 and < = 50 years	18.00%	N/A
	Debt Securities issued by the United Kingdom State:	9 business days and < = 0,5 year	0.50%	N/A
	United Kingdom Treasury Bill (UKTB)	> 0.5 and < = 1 year	0.70%	N/A
	United Kingdom Gilt (UKT)	> 1 and < = 3 years	1.50%	N/A
UK		> 3 and < = 5 years > 5 and < = 7 years	2.50%	N/A
OK .		> 7 and < = 10 years	3.25% 5.00%	N/A N/A
		> 10 and < = 15 years	8.25%	N/A
		> 15 and < = 15 years	14.25%	N/A
		> 30 and < = 50 years	19.00%	N/A
	Debt Securities issued by the United States of America:	3 business days and < = 0,5 year	0.50%	N/A
	US Treasury Bills (B)	> 0.5 and < = 1 year	0.70%	N/A
		> 1 and < = 3 years	1.50%	N/A
		> 3 and < = 5 years	2.50%	N/A
USA		> 5 and < = 7 years	3.50%	N/A
		> 7 and < = 10 years	5.00%	N/A
		> 10 and < = 15 years	7.50%	N/A
		> 15 and < = 30 years	16.25%	N/A
		> 30 and < = 50 years	22.00%	N/A
		,		

Eligible Securities ( Supra & Agencies)		Buckets	Haircuts	Haircuts (Inflation Linked Bonds)
European Financial Stability Facility	Debt securities issued by the European Financial Stability Facility: European Financial Stability Facility bond (EFSF)	4 business days and < = 0,5 year	1.50%	N/A
		> 0.5 and < = 1 year	1.50%	N/A
		> 1 and < = 3 years	2.50%	N/A
		> 3 and < = 5 years	3.00%	N/A
		> 5 and < = 7 years	3.75%	N/A
		> 7 and < = 10 years	8.00%	N/A
		> 10 and < = 15 years	8.25%	N/A
		> 15 and < = 30 years	16.50%	N/A
		> 30 and < = 50 years	N/A	N/A

European Investment Bank	Debt securities issued by the European Investment Bank: European Investment Bank bonds (EIB) European Investment Bank Floater (EIB)	9 business days and <= 0,5 year > 0.5 and <= 1 year > 1 and <= 3 years > 3 and <= 5 years > 5 and <= 7 years	1.00% 1.00% 2.50% 3.50% 4.50%	N/A N/A N/A N/A N/A
		> 7 and < = 10 years > 10 and < = 15 years > 15 and < = 30 years > 30 and < = 50 years	8.00% 11.50% 16.25% N/A	N/A N/A N/A N/A
European Union	Debt securities issued by the European Union (EU): European Union bonds (EU)	12 business days and < = 0,5 year > 0.5 and < = 1 year > 1 and < = 3 years > 3 and < = 5 years > 5 and < = 7 years	1.00% 1.00% 1.75% 2.75% 4.50%	N/A N/A N/A N/A N/A
		> 7 and < = 10 years > 10 and < = 15 years > 15 and < = 30 years > 30 and < = 50 years	8.00% 8.00% 15.25% N/A	N/A N/A N/A N/A
International Bank for Reconstruction and Development	Debt securities issued by the International Bank for Reconstruction and Development : International Bank for Reconstruction and Development Bond (IBRD)	12 business days and < = 0,5 year > 0.5 and < = 1 year > 1 and < = 3 years > 3 and < = 5 years	1.00% 1.00% 1.75% 2.75%	N/A N/A N/A N/A
		> 5 and < = 7 years > 7 and < = 10 years > 10 and < = 15 years > 15 and < = 30 years > 30 and < = 50 years	4.50% 8.00% 8.00% 15.25% N/A	N/A N/A N/A N/A N/A
European Stability Mechanism	Debt securities issued by the European Stability Mechanism: European Stability Mechanism Bond (ESM) European Stability Mechanism T-bill (ESMT)	4 business days and <= 0,5 year  > 0.5 and <= 1 year  > 1 and <= 3 years  > 3 and <= 5 years  > 5 and <= 7 years  > 7 and <= 10 years  > 10 and <= 15 years  > 15 and <= 30 years  > 30 and <= 50 years	1.00% 1.00% 1.50% 2.75% 3.50% 4.50% 8.00% 16.50% N/A	N/A N/A N/A N/A N/A N/A N/A N/A
Landwirtschaftliche Rentenbank	Debt securities issued by the Landwirtschaftliche Rentenbank: Landwirtschaftliche Rentenbank Bond (RENTEN). Landwirtschaftliche Rentenbank Floater (RENTEN)	2 business days and <= 0,5 year > 0.5 and <= 1 year > 1 and <= 3 years > 3 and <= 5 years > 5 and <= 7 years > 7 and <= 10 years > 10 and <= 15 years > 15 and <= 30 years > 15 and <= 30 years	1.00% 1.25% 1.55% 2.75% 3.50% 4.50% 8.00% 14.00% N/A	N/A N/A N/A N/A N/A N/A N/A
Kreditanstalt für Wiederaufbau	Debt securities issued by the Kreditanstalt für Wiederaufbau: Kreditanstalt für Wiederaufbau Bond (KFW) Kreditanstalt für Wiederaufbau Floater (KFW)	3 business days and <= 0,5 year > 0.5 and <= 1 year > 1 and <= 3 years > 3 and <= 5 years > 5 and <= 7 years > 7 and <= 10 years > 10 and <= 15 years > 15 and <= 30 years > 30 and <= 30 years	1.00% 1.25% 1.50% 2.75% 3.50% 4.50% 8.00% 14.00% N/A	N/A N/A N/A N/A N/A N/A N/A

Other stipulations			
Equities	Stocks incorporated European index EURO STOXX 50 (Excluding Banking & Insurance stoce An haircut of 35 % is applied on shares accepted as collateral; Equity Securities not accepted for CDSClear Margins.	ks) within the limitsset out by LCH SA;	
Haircut allocation rule	For non-cash collateral lodged bilaterally, the duration is used to determine the haircut;     For non-cash collateral lodged using triparty solution, the time to maturity is used to determine the haircut;	ermine the haircut.	
Additional Haircuts	Certain collateral can from time to time be subject to additional haircuts above those state	d.	
Excluded bonds instruments	LCH SA deems non eligible the following securities:  • Zero coupon bonds (excluding T-Bills), stripped bonds and perpetual bonds  • Bonds close to maturity  • Optionable bonds (Sinkable, Callable, Putable)  • Bonds not issued in the local country currency (e.g. France issuing USD debt)		
Concentration Limits	LCH SA reserves the right to manage specific concentrations in margin collateral in all circul directly with a view to re-alignment of their portfolio.	mstances. Where positions are considered to be	excessively concentrated, members will be contacted
	For payment in non EURO, LCH SA applies a haircut on the equivalent in EURO calculated	from the currency exchange rate the below inc	remental FX Haircut apply.
	Currency	FX HC	Minimum nominal Value in ccy
	AUD	6.90%	100,000
	CAD	4.50%	100,000
Currency Haircut	CHF	6.20%	100,000
	DKK	0.20%	1,000,000
	EUR	0.00%	100,000
	GBP JPY	5.40% 7.50%	100,000 10,000,000
	NOK	7.50% 4.90%	1,000,000
	SEK	3.50%	1,000,000
	USD	4.80%	100,000

	To be eligible, securities need to have an Outstanding Amount above the following limits.		
	Currency	Minimum oustanding amount in ccy (Million)	
	AUD	750	
	CAD	750	
Outstanding Amount	CHF	500	
	DKK	5,000	
	EUR	500	
	GBP	500	
	JPY	70,000	
	NOK	5,000	
	SEK	5,000	
	USD	500	
	For non-cash collateral lodged using triparty solution, same haircuts apply		
Tri Party	• For non-cash collateral lodged using triparty solution, the minimum Nominal value is defined in	the Triparty contract	
	Debt	Min Maturity (in business days)	Max Maturity*
	Australia	11	30Y
	Austria	4	50Y
	Belgium	4	50Y
	Canada	10	50Y
	Denmark	6	30Y
	Finland	4	50Y
	France	4	50Y
	Germany	3	50Y
	Italy	3	50Y
	Japan	6	50Y
Maturities	Netherland	10	50Y
	Norway	9	11Y
	Portugal	3	50Y
	Spain	3	50Y
	Sweden	4	30Y
	Switzerland	3	50Y
	UK	9	50Y
	USA	3	50Y
	EFSF	4	30Y
	EIB	9	30Y
	EU	12	30Y
	IBRD	12	30Y
	ESM Danton book	4	30Y
	Rentenbank	2	30Y
	KFW	3	30Y
	*The maximum maturity is here referring to the associated benchmark of	the mentioned tenors.	
Hairaut Application	The application of the haircute is performed according to the helpsy formula: Drice of 4.100 of 4.	EV LIC)	
Haircut Application	The application of the haircuts is performed according to the below formula: Price $x$ (1-HC) $x$ (1 - F	x ncj	