

29-Sep-23

SwapClear (DF €6.9 bn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	93%	116%	134%	162%	189%	216%	240%	255%
Scenario Number	1519	1519	1519	1519	1519	1519	1519	1519
Scenario Type	Historical							
Scenario Description	Lehman							
RepoClear (DF €575 mn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults

Scenario Description	UK yield steepening							
Scenario Type	Historical							
Scenario Number	2030	2030	2030	2030	2030	2030	2030	2030
Remaining Non Defaulter Assessments	0%	0%	0%	0%	0%	0%	0%	26%
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%

EquityClear (DF €173 mn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	0%	0%	0%	0%	0%	0%	0%	0%
Remaining Non Defaulter Assessments	0%	0%	0%	0%	0%	0%	0%	0%
Scenario Number	791	791	791	791	791	791	791	791
Scenario Type	Antithetical							
Scenario Description	1987 Stock Crash							

ForexClear (DF €1.2 bn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	76%	88%	93%	97%	110%	141%	141%	160%
Scenario Number	1613	1613	1613	1613	1613	1613	1613	1613
Scenario Type	Theoretical							
Scenario Description	BRL Depreciation							

Number of defaults:

N represents the number of member groups in default. A member group may contain more than 1 member, and all client accounts within the members. Defaults are assumed to be instantaneous and under the same stress conditions (i.e. the same scenario).

For example the worst 6 defaults is assumed to occur under the same scenario, however this could be a different scenario to the worst 7 defaults.

Stress losses over total margin (STLOTM) is used in this simulation. The aggregation of stress losses over margin follow the member and customer account segregation rules.

Skin in the Game Loss:

Represents the percentage of 'skin in the game' capital loss for each default fund waterfall. LCH skin in the game capital is ahead of non defaulter contributions.

Remaining Non Defaulter Assessments:

Represents the estimated maximum unfunded contribution payable to LCH for a given number of defaults. The figures are expressed as a percentage of the funded default fund contribution.

For example if a member had contributed \$10m to the default fund and assessment is 196% for 5 defaults, then the member is liable to pay \$19.6m in the following days margins call (to restore the default fund).

Assessments are capped at 1X (100%) per default up to maximum 3 defaults (300%). Once the maximum assessments have been utilised, LCH will move to the next recovery tool in the waterfall.

Scenario Descriptions:

SwapClear 1519 is the Lehman scenario of negative shifts (30 - 100bps shift down)

RepoClear 2030 is related to UK centric events in 2022 with shifts down (16-208bps)

EquityClear 791 is an antithetic scenario in which equity market are up (32%)

ForexClear 1613 is a depreciation in BRL against USD (+31.75%) and an increase in implied volatility



30-Jun-23

SwapClear (DF €6.9 bn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	94%	122%	156%	180%	207%	236%	259%	276%
Scenario Number	1519	1519	1519	1519	1519	1519	1519	1519
Scenario Type	Historical							
Scenario Description	Lehman							

RepoClear (DF €579 mn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	0%	0%	0%	0%	0%	0%	0%	0%
Scenario Number	2030	2030	2030	2030	2030	2030	2030	2030
Scenario Type	Historical							
Scenario Description	UK yield steepening							

EquityClear (DF €175 mn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	0%	0%	0%	0%	0%	0%	0%	0%
Scenario Number	1989	1989	1989	1989	1989	1989	1989	1989
Scenario Type	DE-CORR							
	2008 Global							
	Financial Crisis with							
Scenario Description	Idiosyncratic							
scenario Description	decorrelation							

ForexClear (DF €1.6 bn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	43%	47%	47%	58%	67%	72%	85%	85%
Scenario Number	1646	1646	1646	1646	1646	1646	1646	1646
Scenario Type	Theoretical							
Scenario Description	KRW Appreciation							

Number of defaults:

N represents the number of member groups in default. A member group may contain more than 1 member, and all client accounts within the members. Defaults are assumed to be instantaneous and under the same stress conditions (i.e. the same scenario).

For example the worst 6 defaults is assumed to occur under the same scenario, however this could be a different scenario to the worst 7 defaults.

Stress losses over total margin (STLOTM) is used in this simulation. The aggregation of stress losses over margin follow the member and customer account segregation rules.

Skin in the Game Loss:

Represents the percentage of 'skin in the game' capital loss for each default fund waterfall. LCH skin in the game capital is ahead of non defaulter contributions.

Remaining Non Defaulter Assessments:

Represents the estimated maximum unfunded contribution payable to LCH for a given number of defaults. The figures are expressed as a percentage of the funded default fund contribution.

For example if a member had contributed \$10m to the default fund and assessment is 196% for 5 defaults, then the member is liable to pay \$19.6m in the following days margins call (to restore the default fund).

Assessments are capped at 1X (100%) per default up to maximum 3 defaults (300%). Once the maximum assessments have been utilised, LCH will move to the next recovery tool in the waterfall.

Scenario Descriptions:

SwapClear 1519 is the Lehman scenario of negative shifts (30 - 100bps shift down)

RepoClear 2030 is related to UK centric events in 2022 with shifts down (16-208bps)

EquityClear 1989 is an antithetic equities up scenario derived from 2008 Global Financial crisis with Idiosyncratic decorrelation (26%)

ForexClear 1646 is a KRW appreciation scenario against USD (-18%) with volatility shift.



31-Mar-23

100%		8 Defaults	7 Defaults	6 Defaults	5 Defaults	4 Defaults	3 Defaults	SwapClear (DF €5.7 bn)
	100%	100%	100%	100%	100%	100%	100%	Skin in the Game Loss
239%	226%	208%	182%	154%	133%	103%	80%	Remaining Non Defaulter Assessments
1519	1519	1519	1519	1519	1519	1519	1519	Scenario Number
Historical	Scenario Type							
Lehman	Scenario Description							
								"

RepoClear (DF €566 mn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	0%	0%	0%	0%	0%	0%	0%	0%
Scenario Number	23	23	23	23	23	23	23	23
Scenario Type	Historical							
Scenario Description	UK yield steepening							

EquityClear (DF €170 mn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	95%	95%	95%	95%	95%	95%	95%	95%
Remaining Non Defaulter Assessments	0%	0%	0%	0%	0%	0%	0%	0%
Scenario Number	1989	1989	1989	1989	1989	1989	1989	1989
Scenario Type	DE-CORR	DE-CORR	DE-CORR	DE-CORR	DE-CORR	DE-CORR	DE-CORR	DE-CORR
	2008 Global	2008 Global	2008 Global	2008 Global	2008 Global	2008 Global	2008 Global	2008 Global
	Financial Crisis with	Financial Crisis with	Financial Crisis with	Financial Crisis with	Financial Crisis with	Financial Crisis with	Financial Crisis with	Financial Crisis with
Scenario Description	Idiosyncratic decorrelation	Idiosyncratic decorrelation	Idiosyncratic decorrelation	Idiosyncratic decorrelation	Idiosyncratic decorrelation	Idiosyncratic decorrelation	Idiosyncratic decorrelation	Idiosyncratic decorrelation

ForexClear (DF €1.5 bn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	27%	34%	41%	46%	49%	58%	59%	77%
Scenario Number	255	255	255	255	255	255	255	255
Scenario Type	Theoretical							
Scenario Description	EM All down							

Number of defaults:

N represents the number of member groups in default. A member group may contain more than 1 member, and all client accounts within the members. Defaults are assumed to be instantaneous and under the same stress conditions (i.e. the same scenario).

For example the worst 6 defaults is assumed to occur under the same scenario, however this could be a different scenario to the worst 7 defaults.

Stress losses over total margin (STLOTM) is used in this simulation. The aggregation of stress losses over margin follow the member and customer account segregation rules.

Skin in the Game Loss:

Represents the percentage of 'skin in the game' capital loss for each default fund waterfall. LCH skin in the game capital is ahead of non defaulter contributions.

Remaining Non Defaulter Assessments:

Represents the estimated maximum unfunded contribution payable to LCH for a given number of defaults. The figures are expressed as a percentage of the funded default fund contribution.

For example if a member had contributed \$10m to the default fund and assessment is 196% for 5 defaults, then the member is liable to pay \$19.6m in the following days margins call (to restore the default fund).

Assessments are capped at 1X (100%) per default up to maximum 3 defaults (300%). Once the maximum assessments have been utilised, LCH will move to the next recovery tool in the waterfall.

Scenario Descriptions:

SwapClear 1519 is the Lehman scenario of negative shifts (30 - 100bps shift down)

RepoClear 23 is to UK exit from the ERM in 1992 with UK yield steeping

EquityClear 1989 is an antithetic equities up scenario derived from 2008 Global Financial crisis with Idiosyncratic decorrelation (26%)

ForexClear 255 is a depreciation of emerging markets versus USD (10-50%)



30-Dec-22

SwapClear (DF €5.3 bn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	83%	104%	137%	165%	192%	222%	243%	259%
Scenario Number	1519	1519	1519	1519	1519	1519	1519	1519
Scenario Type	Historical							
Scenario Description	Lehman							

RepoClear (DF €1.2 bn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	0%	0%	0%	0%	0%	0%	0%	0%
Scenario Number	2030	2030	2030	2030	2030	2030	2030	2030
Scenario Type	Historical							
Scenario Description	UK shift down							

EquityClear (DF €169 mn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	0%	0%	0%	0%	0%	0%	0%	0%
Scenario Number	1989	1989	1989	1989	1989	1989	1989	1989
Scenario Type	DE-CORR							
	2008 Global							
	Financial Crisis with							
	Idiosyncratic							
Scenario Description	decorrelation							

ForexClear (DF €1.9 bn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	71%	84%	98%	103%	108%	108%	137%	169%
Scenario Number	258	258	258	258	258	258	258	258
Scenario Type	Theoretical							
Scenario Description	EM All up							

Number of defaults:

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For example the worst 6 defaults is assumed to occur under the same scenario, however this could be a different scenario to the worst 7 defaults.

Stress losses over total margin (STLOTM) is used in this simulation. The aggregation of stress losses over margin follow the member and customer account segregation rules.

Skin in the Game Loss:

Represents the percentage of 'skin in the game' capital loss for each default fund waterfall. LCH skin in the game capital is ahead of non defaulter contributions.

Remaining Non Defaulter Assessments:

Represents the estimated maximum unfunded contribution payable to LCH for a given number of defaults. The figures are expressed as a percentage of the funded default fund contribution.

For example if a member had contributed \$10m to the default fund and assessment is 196% for 5 defaults, then the member is liable to pay \$19.6m in the following days margins call (to restore the default fund). Assessments are capped at 1X (100%) per default up to maximum 3 defaults (300%). Once the maximum assessments have been utilised, LCH will move to the next recovery tool in the waterfall.

Scenario Descriptions:

SwapClear 1519 is the lehman scenario of negative shifts (30 - 100bps shift down)

RepoClear 2030 is related to UK centric events in 2022 with shifts down (16-208bps)

EquityClear 1989 is an antithetic equities up scenario derived from 2008 Global Financial crisis with Idiosyncratic decorrelation (26%)

ForexClear 258 is an appreciation of emerging markets versus USD (15-20%).



30-Sep-22

SwapClear (DF €5.8 bn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	81%	112%	149%	187%	215%	247%	277%	292%
Scenario Number	1519	1519	1519	1519	1519	1519	1519	1519
Scenario Type	Historical							
Scenario Description	Lehman							

RepoClear (DF €828 mn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	32%	32%	33%	34%	34%	40%	44%	48%
Scenario Number	473	473	473	473	473	473	473	473
Scenario Type	Historical							
Scenario Description	UK yield steepening							

EquityClear (DF €171 mn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss*	0%	0%	0%	0%	0%	0%	0%	0%
Remaining Non Defaulter Assessments	0%	0%	0%	0%	0%	0%	0%	0%
Scenario Number	791	791	791	791	791	791	791	791
Scenario Type	Antithetical							
Scenario Description	1987 Stock Crash							

ForexClear (DF €2.4 bn)	3 Defaults	4 Defaults	5 Defaults	6 Defaults	7 Defaults	8 Defaults	9 Defaults	10 Defaults
Skin in the Game Loss	100%	100%	100%	100%	100%	100%	100%	100%
Remaining Non Defaulter Assessments	50%	66%	85%	104%	105%	132%	139%	169%
Scenario Number	1095	1095	1095	1095	1095	1013	1013	1013
Scenario Type	DE-CORR	DE-CORR	DE-CORR	DE-CORR	DE-CORR	DE-CORR	DE-CORR	DE-CORR
Scenario Description	EM up/ AUD depreciation	EM up/ AUD depreciation	EM up/ AUD depreciation	EM up/ AUD depreciation	EM up/ AUD depreciation	KRW Appreciation	KRW Appreciation	KRW Appreciation

* At quarter end, all EquityClear members had no material stress exposures

Number of defaults:

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For example the worst 6 defaults is assumed to occur under the same scenario, however this could be a different scenario to the worst 7 defaults.

Stress losses over total margin (STLOTM) is used in this simulation. The aggregation of stress losses over margin follow the member and customer account segregation rules.

Skin in the Game Loss:

Represents the percentage of 'skin in the game' capital loss for each default fund waterfall. LCH skin in the game capital is ahead of non defaulter contributions.

Remaining Non Defaulter Assessments:

Represents the estimated maximum unfunded contribution payable to LCH for a given number of defaults. The figures are expressed as a percentage of the funded default fund contribution.

For example if a member had contributed \$10m to the default fund and assessment is 196% for 5 defaults, then the member is liable to pay \$19.6m in the following days margins call (to restore the default fund).

Assessments are capped at 1X (100%) per default up to maximum 3 defaults (300%). Once the maximum assessments have been utilised, LCH will move to the next recovery tool in the waterfall.

Scenario Descriptions:

RepoClear 473 is a historical scenario with UK yield steeping.

EquityClear 791 is an antithetic scenario in which equity market are up (32%).

ForexClear 1095 is a decorrelation scenario with EM appreciation and AUD depreciation; ForexClear 1013 is a KRW appreciation scenario against USD (-18%)

SwapClear 1519 is the lehman scenario of negative shifts (30 - 100bps shift down)