
LCH LIMITED
PROCEDURES SECTION 2I
FOREXCLEAR CLEARING SERVICE

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1. INTRODUCTION AND INTERPRETATION

These Procedures govern the ForexClear Service, form part of the Rulebook and must be read in conjunction with the other parts of the Rulebook.

Capitalised terms used in these Procedures not otherwise defined herein have the meanings ascribed to them in the Rulebook.

References to "**Sections**" shall mean sections in these Procedures.

References to "**Business Day**", "**Calculation Agent**", "**Disruption Fallback**", "**Notional Amount**", "**Reference Currency**", "**Settlement Currency**", "**Settlement Currency Amount**", "**Settlement Date**", "**Settlement Rate**", "**Settlement Rate Option**", "**Trade Date**", "**Valuation Date**", and "**Valuation Postponement**" shall carry the meanings given to them in the Product Specific Contract Terms and Eligibility Criteria Manual as published on the Clearing House's website from time to time with respect to the relevant Currency Pair.

References to "**business day**" shall carry the meaning given to it in the Rulebook.

References to "**Currency Pair**" are to the relevant currency pairs specified in the Schedule to the ForexClear Regulations.

"**EMTA**" means EMTA Inc., the trade association for the emerging markets that was formerly known as the Emerging Markets Traders Association, or any successor entity.

"**EMTA Template**" means, where applicable, the template terms for a Non-Deliverable FX Transaction or Non-Deliverable Currency Option Transaction for a particular Currency Pair that are in effect and published by EMTA on its website on the relevant Trade Date, unless specified otherwise by the Clearing House by member notice to its FXCCMs.

"**ForexClear Margin or Settlement Currency**" means

- (a) in the case of a ForexClear Non-Deliverable Contract, USD; or
- (b) in the case of a ForexClear Deliverable Contract, the ForexClear Currency or ForexClear Currencies elected as such by the FXCCM party to such ForexClear Contract at registration of such ForexClear Contract, provided that the Clearing House has permitted such currency or currencies to be chosen for such purpose.

"**LCH Non-EMTA Contract Template**" means, where applicable, the template terms for a ForexClear Transaction for a particular Currency Pair that are set forth in the LCH Non-EMTA NDF Contract Terms or LCH Non-EMTA NDO Contract Terms.

"**NPV Payment**" means, in respect of a business day and a ForexClear STM Contract that is settled-to-market daily in accordance with Regulation 106A, the amount or amounts paid by either the relevant FXCCM or the Clearing House to the other on such business day in respect of the change in the net present value of that ForexClear

STM Contract (or the obligations thereunder) in accordance with the ForexClear STM Terms applicable to that ForexClear STM Contract.

“**Relevant EMTA Template**” means, for a particular ForexClear Contract, the EMTA Template that is incorporated by reference into the ForexClear Contract Terms applicable to such Contract, together with any amendments thereto as set out in the ForexClear Contract Terms.

“**Submission Date**” means the date on which a given trade is submitted to the Clearing House for registration.

Unless otherwise specified, all times are in local London time.

The liability of the Clearing House is as set out in Regulation 52 (*Exclusion of Liability*), which applies to these Procedures in its entirety unless provided otherwise.

1.1 Users of the ForexClear Service

The ForexClear Service is an interface that processes and stores all ForexClear Transactions. FXCCMs are Clearing Members who have applied and have been accepted by the Clearing House to clear in the ForexClear Service. FXDs are not FXCCMs, but have met the criteria for registration as a FXD and have entered into a ForexClear Dealer Clearing Agreement with an FXCCM and the Clearing House. FXCCMs, FXDs, ForexClear Clearing Clients and, in respect of hedging ForexClear Transactions executed for the purpose of Risk Neutralisation, the Clearing House are collectively known as ForexClear Participants (“**FXPs**”). For membership procedures, please see Section 1 (*Clearing Member and Dealer Status*) of the Procedures.

For identification purposes, each FXCCM is assigned a unique three-character mnemonic.

1.1.1 *Termination of FXCCM Status*: Clearing Members should contact the Clearing House Onboarding Department (+44 (0)207 426 7891/7627/7063; onboarding@lch.com) for details of how to resign from the ForexClear Service.

1.1.2 *Termination of FXD Status*: The ForexClear Dealer Agreement and Regulation 8 (*Dealer Status*) set out how the FXD relationship may be terminated.

1.2 Service Scope

1.2.1 **Eligibility:** ForexClear Transactions may be submitted for clearing through the ForexClear Service. To be eligible to be registered as a ForexClear Contract, a trade must meet the applicable ForexClear Eligibility Criteria (as set out in the Product Specific Contract Terms and Eligibility Criteria Manual as published on the Clearing House's website from time to time).

1.2.2 *Service Operating Hours*

- (a) *Opening Days:* The ForexClear Service will be open each day, except weekends, Christmas Day, New Year's Day and Good Friday¹.
- (b) *Opening Hours:* Unless notified otherwise, and subject to Section 1.2.2(a), the ForexClear Service will be open between 20:00 (London time) Sunday night and 01:00 (London time) Saturday morning ("**Opening Hours**"). The ForexClear Service will not accept ForexClear Transactions outside of these hours. The Clearing House will notify FXCCMs if the ForexClear Service is scheduled for closure for operational or other reasons.

1.2.3 *Accounts*

(a) *Proprietary Accounts and Client Accounts*

(i) Proprietary Accounts

An FXCCM may request that the Clearing House opens one or more Proprietary Accounts in respect of its House Clearing Business. Each Proprietary Account will map to two or more sub-accounts:

- (A) one or more position accounts; and
- (B) one or more collateral accounts.

(ii) Client Accounts

(A) Types of Client Account

Subject to Regulation 11 (*Client Clearing Business*) and Section 1.12 (*ForexClear Client Clearing*) below, an FXCCM may request that the Clearing House opens, in respect of its Client Clearing Business, one or more:

- (1) Individual Segregated Accounts;

¹ While the ForexClear Service is generally closed on Good Friday, the Clearing House may, by prior written notice to FXCCMs, open the ForexClear Service on such day, in which case it will be a business day.

- (2) Indirect Gross Accounts;
 - (3) Non-Identified Client Omnibus Net Segregated Accounts;
 - (4) Identified Client Omnibus Net Segregated Accounts;
 - (5) Affiliated Client Omnibus Net Segregated Accounts;
 - (6) Omnibus Gross Segregated Accounts; and/or
 - (7) Indirect Net Accounts.
- (iii) Each Client Account will map to two or more sub-accounts:
- (A) one or more position accounts; and
 - (B) one or more collateral accounts.
- (b) *Position-Keeping Accounts*
- (i) Each FXCCM's position and financial information are identified by position-keeping accounts corresponding to a single character code: H for the FXCCM's house business; C for ForexClear Client Clearing Business; and, as applicable, Q for ForexClear Liquidity Fund Contributions.
 - (ii) Sub-accounts within the FXCCM's "H" house position-keeping account may be set up (e.g. for branches or FXDs). Each such sub-account will carry the unique Bank Identifier Code ("**BIC**") of the relevant branch/ FXD.
- (c) *Other Accounts*
- (i) *Operational Accounts*

The Clearing House will open operational accounts, in respect of an FXCCM, which are used to record cash and securities balances and its ForexClear Contributions. The Clearing House may open and close such operational accounts, in its sole discretion, upon notice to the relevant FXCCM. ForexClear Operations will provide details of such accounts to an FXCCM upon request.
 - (ii) *ForexClear Client Clearing*

If an FXCCM engages in ForexClear Client Clearing Business, the Clearing House will maintain a client "C" position-keeping account and a client "C" collateral account for such FXCCM, which may have any number of segregated sub-accounts. Each

Individual Segregated Account of the FXCCM will map onto one such segregated sub-account in the client "C" position-keeping account and one such segregated sub-account in the client "C" collateral account, each Indirect Gross Account of the FXCCM will map onto one such segregated sub-account in the client "C" position-keeping account and one such segregated sub-account in the client "C" collateral account, and each Omnibus Segregated Account will map onto one such segregated sub-account in the client "C" position-keeping account and one such segregated sub-account in the client "C" collateral account.

In the case of Omnibus Gross Segregated Accounts, the relevant segregated sub-accounts of the "C" position-keeping account and the client "C" collateral account will be further segregated into sub-accounts for each Omnibus Gross Segregated Clearing Client or, where applicable, a group of Combined Omnibus Gross Segregated Clearing Clients together.

In the case of Indirect Gross Accounts, the relevant segregated sub-accounts of the client "C" position-keeping account will be further segregated into position-keeping sub-accounts for each Indirect Gross Sub-Account (relating to each Indirect Clearing Client).

1.2.4 Branches

- (a) Submission of a static data form to LCH's Onboarding department by an FXCCM will also allow an FXCCM to be provided with one or more sub-accounts for any branch of that FXCCM (for position-keeping purposes) within that FXCCM's "H" position-keeping account.
- (b) Because the single account reflects the consolidated balances and liabilities of the FXCCM, the balances and liabilities associated with ForexClear Transactions submitted by FXDs and/or per branch will be provided as an estimate (if applicable).
- (c) Where a ForexClear Transaction is presented for clearing by a branch of an FXCCM, it is deemed to have been presented by, and in the name of, the relevant FXCCM.

1.2.5 Novation and Registration

- (a) A ForexClear Transaction must satisfy the applicable ForexClear Eligibility Criteria (set out in the Product Specific Contract Terms and Eligibility Criteria Manual as published on the Clearing House's website from time to time) at the Registration Time. Upon a ForexClear Transaction being submitted to the Clearing House for registration, the Clearing House will determine whether to accept or reject the ForexClear Transaction within the required timeframe under Applicable Law. Where the Clearing House determines to accept the

ForexClear Transaction, registration shall occur immediately and the ForexClear Transaction shall be automatically replaced with (as applicable) (i) two separate ForexClear Contracts, one between the relevant FXCCM and the Clearing House and the other between the same or another FXCCM and the Clearing House, or (ii) one ForexClear Contract between the relevant FXCCM and the Clearing House and one FCM ForexClear Contract between the relevant FCM Clearing Member and the Clearing House. The time of registration of a ForexClear Contract shall be when registration of such ForexClear Contract occurs as described under this Section 1.2.5(a)(the “**Registration Time**”).

- (b) Prior to and as a condition to the registration of a ForexClear Contract, an FXCCM must transfer to the Clearing House all required Collateral in respect of its Liabilities or estimated Liabilities (as applicable, and taking into account MER Buffer and/or ForexClear Tolerance, if any).
- (c) If an FXCCM has not transferred sufficient Collateral in respect of its Liabilities or estimated Liabilities to the Clearing House (taking into account MER Buffer and/or ForexClear Tolerance, if any) at the time of the relevant Incremental Risk Check or Separate Risk Check (each as defined herein), as applicable, then, subject to Section 1.3.4(b)(iii)(A) in respect of the Incremental Risk Check, such ForexClear Transaction will be rejected.
- (d) Notwithstanding paragraph (c) above, if (i) the Clearing House registers a ForexClear Contract resulting from a ForexClear Transaction where any relevant FXCCM has not provided sufficient Collateral with respect to its Liabilities or estimated Liabilities prior to registration, each such FXCCM shall be bound by the terms of its ForexClear Contract, and (ii) if the Clearing House rejects a ForexClear Transaction for reasons of insufficient Collateral, the Clearing House shall not be liable to any FXCCM or any other person in connection with the rejection of such ForexClear Transaction.
- (e) Once a ForexClear Transaction has passed the Validation Checks (as defined in Section 1.3.4(a)) and the Clearing House has determined to accept the ForexClear Transaction for registration, the Clearing House will send a message confirming the registration of the ForexClear Transaction as two ForexClear Contracts or one ForexClear Contract and one FCM ForexClear Contract (as applicable), including a timestamp of the relevant Registration Time, in accordance with Section 1.3.4(a)(iii).
- (f) The definitive report of a registered ForexClear Contract will be shown on the "**All Open Contracts**" report issued by ForexClear Reporting.
- (g) If an FXCCM is declared a Defaulter, the Clearing House will not register any ForexClear Contract in the name of such Defaulter (except pursuant to the Default Rules). ForexClear Transactions in respect of

Non-Defaulting FXCCMs will continue to be registered in accordance with, and subject to, the Rulebook.

1.3 Trade Management; Trade Registration Facilitation

1.3.1 Trade Capture - ForexClear Transactions that are not Final Transactions

After the execution of a ForexClear Transaction (a "**trade**"), that is not a Final Transaction, each FXP which is a party to such trade will submit individual instructions to the ForexClear Approved Trade Source System for matching and clearing of the trade. FXPs are not required to submit a confirmation of any trade presented to the Clearing House for registration. Presentation of the matched trade terms through the ForexClear Approved Trade Source System will ensure that the agreed terms of the trade are recorded.

Once the ForexClear Approved Trade Source System receives the trade instructions from the FXPs which are parties to the trade, the ForexClear Approved Trade Source System matches both instructions. The ForexClear Approved Trade Source System validates the trade using the applicable ForexClear Eligibility Criteria and will, if appropriate, present a single message containing the names of the FXPs which are parties to the trade and the terms of the trade to the Clearing House for registration and clearing.

The Clearing House will determine whether to accept or reject the ForexClear Transaction within the required timeframe under Applicable Law. In respect of a ForexClear Transaction which is:

- (a) a Trading Venue Transaction, the Clearing House will notify the ForexClear Clearing Members, Trading Venue and, if the originating ForexClear Approved Trade Source System is different to the Trading Venue, the originating ForexClear Approved Trade Source System of registration or rejection of the ForexClear Transaction; or
- (b) not a Trading Venue Transaction, the Clearing House will notify the ForexClear Clearing Members (via the originating ForexClear Approved Trade Source System or ClearLink API) of registration or rejection of the ForexClear Transaction,

in each case within the required timeframe under Applicable Law.

1.3.2 The ForexClear Approved Trade Source Systems

FXCCMs must not submit instructions to the Clearing House for trades which will not meet the ForexClear Eligibility Criteria. The Clearing House will register a ForexClear Transaction (other than Final Transactions) on the basis of the data provided to it by the ForexClear Approved Trade Source System and has no obligation to verify that the details received from the ForexClear Approved Trade Source System in respect of such ForexClear Transaction properly reflect the trade entered into by the relevant FXPs.

Application for ForexClear Approved Trade Source System status shall be made in accordance with the policies published from time to time on the

Clearing House's website. A list of ForexClear Approved Trade Source Systems currently approved by the Clearing House is available on the Clearing House's website. Where the Clearing House approves any additional ForexClear Approved Trade Source System, it will notify FXCCMs via a member circular.

The Clearing House is not able to, and will not, verify the authorisation of the source of any details of any ForexClear Transaction reported to it for registration by the ForexClear Approved Trade Source System. The Clearing House shall have no liability in the event that any FXCCM suffers any loss through the unauthorised input of details into a system of a ForexClear Approved Trade Source System.

Notwithstanding the designation by the Clearing House of a system as a ForexClear Approved Trade Source System, the Clearing House makes no warranty (and will accept no liability) as to the effectiveness, efficiency, performance or any other aspect of the services provided by any ForexClear Approved Trade Source System or the timeliness or otherwise of the delivery of any ForexClear Transaction details by that ForexClear Approved Trade Source System to the Clearing House. Such matters form part of the relationship between the FXCCM and the ForexClear Approved Trade Source System and the terms of such relationship may entitle the ForexClear Approved Trade Source System to suspend the ability of an FXCCM to make submissions from time to time.

The Clearing House accepts no liability for any error within or corruption of any data sent by the ForexClear Approved Trade Source System to the Clearing House or to an FXCCM or any delay in or failure of the transmission of such data to the Clearing House. In the event that the Clearing House registers any ForexClear Contract(s) on the basis of incorrect or corrupted data sent to it by a ForexClear Approved Trade Source System, the FXCCM(s) concerned shall be bound by the terms of such ForexClear Contract(s), unless the ForexClear Contract is subsequently cancelled in accordance with Regulation 92 (*Cancellation of ForexClear Contracts*).

1.3.3 *Backloading*

- (a) The Clearing House operates a service for the bulk registration of Backload Transactions (if applicable) and/or Actual ATSP Transactions (if applicable) in accordance with, and subject to, this Section 1.3.3 and the Rulebook ("**Backload Service**").
- (b) An ATSP may, on a Backload Cycle Date, select a set of Backload Transactions (if applicable) and/or Theoretical ATSP Transactions (if applicable) for the purposes of the Backload Service ("**ATSP Package**").
- (c) The counterparties to each Backload Transaction and Theoretical ATSP Transaction (as if it were converted to an Actual ATSP Transaction) within an ATSP Package may be any combination of FXCCMs and/or ForexClear Dealers as determined by the ATSP (but,

for the avoidance of doubt, may not be a ForexClear Clearing Client, FCM Client or FCM Clearing Member).

- (d) Each FXCCM participating in the Backload Cycle for an ATSP Package (each, a “**Participating FXCCM**”) may agree (for itself and on behalf of each of its ForexClear Dealers that is, or would be, a counterparty to a Backload Transaction or an Actual ATSP Transaction corresponding to a Theoretical ATSP Transaction within such ATSP Package) to the presentation of all the Backload Transactions and Theoretical ATSP Transactions (once converted to Actual ATSP Transactions) within such ATSP Package to the Clearing House for registration as ForexClear Contracts (such agreement of all Participating FXCCMs in respect of such ATSP Package, “**Complete Member Agreement**”).
- (e) If Complete Member Agreement in respect of an ATSP Package is:
 - (i) obtained, the ATSP will provide such ATSP Package to the Clearing House and notify it that such Complete Member Agreement has been obtained (“**Agreement Notice**”) by the time on the Backload Cycle Date determined by the Clearing House; or
 - (ii) not obtained, the ATSP will not provide such ATSP Package to the Clearing House.
- (f) Following receipt of an ATSP Package and corresponding Agreement Notice on the Backload Cycle Date pursuant to Section 1.3.3(e), the Clearing House will:
 - (i) assess the:
 - (A) eligibility of each Backload Transaction and each Theoretical ATSP Transaction (as if it were converted to an Actual ATSP Transaction) within such ATSP Package for registration as ForexClear Contracts; and
 - (B) Backload Transactions and Theoretical ATSP Transactions (as if they were converted to Actual ATSP Transactions) within such ATSP Package against any value, numerical, notional amount or other limit(s) that apply; and
 - (ii) as a result of such assessment and at its sole and absolute discretion:
 - (A) reject the ATSP Package, so that it will not be presented to the Clearing House for registration of the constituent transactions as ForexClear Contracts in accordance with, and subject to, the Rulebook; or

- (B) approve the ATSP Package as is, and agree it as the final ATSP Package with the ATSP, which may be presented to the Clearing House for registration of the constituent transactions as ForexClear Contracts in accordance with, and subject to, this Section 1.3.3 and the Rulebook.
- (g) If a final ATSP Package is agreed between the Clearing House and the ATSP pursuant to Section 1.3.3(f)(ii) before the cut-off time on the Backload Cycle Date determined by the Clearing House, then:
- (i) provided the Clearing House has received an Agreement Notice in respect of such final ATSP Package, it will determine any increase in the margin requirement of each Participating FXCCM, which would arise from registering the Backload Transactions and Theoretical ATSP Transactions (as if converted to Actual ATSP Transactions) within such final ATSP Package, and, to the extent necessary, call Collateral from each Participating FXCCM to discharge its margin requirement (each, a "**Backload Collateral Call**");
- (ii) each Participating FXCCM:
- (A) shall provide Collateral to the Clearing House that is sufficient to discharge its Backload Collateral Call in respect of such Backload Cycle, by the time determined by the Clearing House; and
- (B) agrees, represents and warrants that:
- (1) at the point of execution of any Backload Transaction that is within such final ATSP Package and to which it or one of its ForexClear Dealers is a party, there was no agreement or intention to clear such Backload Transaction with a central counterparty;
- (2) the agreement or intention of:
- I. the Participating FXCCM, in respect of a Backload Transaction that is within such final ATSP Package and to which it is party; and
- II. its ForexClear Dealer, in respect of a Backload Transaction that is within such final ATSP Package and to which the ForexClear Dealer is party,
- to clear with a central counterparty such Backload Transaction (which agreement or

intention has arisen or arises after execution of such transaction) is or will be conditional on the presentation of all Final Transactions within such final ATSP Package to the Clearing House pursuant to Section 1.3.3(j); and

- (3) the agreement or intention of:
- I. the Participating FXCCM, in respect of a Theoretical ATSP Transaction that is within such final ATSP Package and to which the Participating FXCCM would be a party if it is converted to an Actual ATSP Transaction; and
 - II. its ForexClear Dealer, in respect of a Theoretical ATSP Transaction that is within such final ATSP Package and to which the ForexClear Dealer would be a party if it is converted to an Actual ATSP Transaction,

to clear with a central counterparty such Actual ATSP Transaction will be conditional on the presentation of all Final Transactions within such final ATSP Package to the Clearing House pursuant to Section 1.3.3(j).

- (h) If the Clearing House determines that the requirement under Section 1.3.3(g)(ii)(A) is satisfied for all Participating FXCCMs by the cut-off time on the Backload Cycle Date determined by the Clearing House, it will notify the ATSP that provided such ATSP Package accordingly (“**Ready Notice**”).
- (i) If Theoretical ATSP Transactions are included in the final ATSP Package, the ATSP will, after receipt of a Ready Notice pursuant to Section 1.3.3(h), procure the execution on the Backload Cycle Date of Actual ATSP Transactions that mirror the terms of the Theoretical ATSP Transactions within such ATSP Package by the relevant Participating FXCCMs and/or their ForexClear Dealers, and notify the Clearing House if and when all such transactions are executed (each Backload Transaction and, if applicable, each such Actual ATSP Transaction within such final ATSP Package, a “**Final Transaction**”) (such notice, an “**Execution Notice**”). Each Participating FXCCM agrees that it or its ForexClear Dealer will execute an Actual ATSP Transaction bilaterally with its counterparty and not on a Trading Venue.
- (j) The ATSP may, at its sole and absolute discretion, and after such time as it:

- (i) receives a Ready Notice in respect of the final ATSP Package from the Clearing House pursuant to Section 1.3.3(h); and
 - (ii) if applicable, procures the execution of all Actual ATSP Transactions and the Clearing House receives an Execution Notice from the ATSP in respect of the final ATSP Package pursuant to Section 1.3.3(i),
- deliver a clearing request (in the form specified by the Clearing House) to the Clearing House on the Backload Cycle Date in respect of the final ATSP Package, which clearing request will constitute presentation, simultaneously, of each Final Transaction within such ATSP Package to the Clearing House for registration as two ForexClear Contracts pursuant to General Regulation 91(a).
- (k) The Clearing House will determine whether to accept or reject each such Final Transaction within the ATSP Package presented to it pursuant to Section 1.3.3(j) and General Regulation 91(a) by the required timeframe under Applicable Law and will notify the relevant Participating FXCCMs and originating ATSP of registration or rejection of each such Final Transaction within the required timeframe under Applicable Law.
 - (l) If the Clearing House determines that one or more Final Transaction(s) within an ATSP Package will be rejected, then it will reject all other Final Transaction(s) within such ATSP Package.
 - (m) A Final Transaction for which the Executing Party is:
 - (i) an FXCCM shall be deemed to be submitted by such FXCCM to the Clearing House for registration at the point at which it is presented to the Clearing House as part of a final ATSP Package pursuant to Section 1.3.3(j) and General Regulation 91(a); and
 - (ii) a ForexClear Dealer shall be deemed to be submitted by such ForexClear Dealer to the Clearing House for registration:
 - (A) at the point at which it is presented to the Clearing House as part of a final ATSP Package pursuant to Section 1.3.3(j) and General Regulation 91(a); and
 - (B) through the designated office specified under the ForexClear Dealer Clearing Agreement between the ForexClear Dealer, its FXCCM that will clear the Backload Transaction and the Clearing House.
 - (n) The Clearing House:
 - (i) will notify FXCCMs by member circular of the frequency of each Backload Cycle Date and of any change to such frequency;

- (ii) may, at its sole and absolute discretion, cancel a Backload Cycle for a Backload Cycle Date by notice to those FXCCMs participating in such Backload Cycle and the originating ATSP of such cancellation; and
 - (iii) will, on the request of an FXCCM, provide the operational timings applicable to a Backload Cycle Date and Backload Cycle to such FXCCM, provided those specific timings may be subject to adjustment by the Clearing House or the ATSP associated with such Backload Cycle (as applicable).
- (o) The Clearing House will record each ForexClear Contract resulting from the clearing of a Final Transaction in the respective Proprietary Account of the FXCCM(s) in whose names such ForexClear Contracts are registered.
- (p) The Clearing House will register a Final Transaction on the basis of the data provided to it by the ATSP and has no obligation to verify that the details received from the ATSP in respect of a Final Transaction properly reflect the transaction entered into by the relevant counterparties. The Clearing House will not verify the authorisation of the source of any details of any Final Transaction provided to it by the ATSP and shall have no liability if any FXCCM, ATSP or third party incurs any loss or damage in connection with the unauthorised input of details into a system by, or of, an ATSP. Notwithstanding the approval by the Clearing House of an entity as an ATSP, the Clearing House makes no warranty or representation, and shall have no liability, as to the efficacy, efficiency, performance or any other aspect of the services provided by any ATSP or the timeliness or otherwise of the ATSP's actions or inactions. The Clearing House shall have no liability for any (i) error within, or corruption of, any data or notice sent by an ATSP to the Clearing House, an FXCCM or to any third party, or (ii) delay in the transmission of any data or notice sent by an ATSP, or failure by an ATSP to transmit any data or notice, to the Clearing House, an FXCCM or any third party. If the Clearing House registers any ForexClear Contract(s) on the basis of incorrect or corrupted data sent to it by an ATSP, the FXCCM(s) concerned shall be bound by such ForexClear Contract(s), regardless of any such incorrect and/or corrupted data.
- (q) Each Participating FXCCM, in respect of an ATSP Package, agrees that, if the ATSP provides an Agreement Notice for such ATSP Package to the Clearing House, then:
- (i) the Clearing House is entitled to rely on such Agreement Notice as evidence of actual Complete Member Agreement without further enquiry; and
 - (ii) such Agreement Notice is deemed to constitute Complete Member Agreement as described under Section 1.3.3(d) in

respect of such ATSP Package and each such Participating FXCCM.

- (r) An FXCCM participating in a Backload Cycle agrees, represents and warrants that it has authorised the ATSP to undertake the steps and perform the functions described in this Section 1.3.3 and/or necessary for such Backload Cycle, in respect of such FXCCM and its Final Transactions and Theoretical ATSP Transactions.

1.3.4 Trade Validation and Registration – All ForexClear Transactions

(a) Process Flow Description

- (i) The Clearing House performs a validation check on each trade submitted to it for registration as two ForexClear Contracts or as one ForexClear Contract and one FCM ForexClear Contract (as applicable) to ensure that each such trade meets the applicable ForexClear Eligibility Criteria, the Counterparty Technical Validation Check (as defined below), Incremental Risk Checks (as defined below) with respect to each ForexClear Transaction, except a Sub-Block Trading Venue Transaction and a Sub-25 NDF DTV Transaction, Settlement Exposure Limit Checks (as defined below) with respect to each ForexClear Deliverable Transaction and Separate Risk Checks (as defined below) with respect to each Sub-25 NDF DTV Transaction (collectively, the "**Validation Checks**").
- (ii) The Clearing House will create two trade records for a ForexClear Transaction which passes the Validation Checks and is accepted for clearing by the Clearing House:
 - (A) one for the ForexClear Contract between the Clearing House and the relevant FXCCM; and
 - (B) the other for the ForexClear Contract between the Clearing House and the same or another relevant FXCCM or for the FCM ForexClear Contract between the Clearing House and the relevant FCM Clearing Member (as applicable).
- (iii) In respect of a ForexClear Transaction which is:
 - (A) a Trading Venue Transaction and not a Final Transaction, the Clearing House will notify the ForexClear Clearing Members, Trading Venue and, if the originating ForexClear Approved Trade Source System is different to the Trading Venue, the originating ForexClear Approved Trade Source System of registration or rejection of the ForexClear Transaction (as applicable);

- (B) not a Trading Venue Transaction and not a Final Transaction, the Clearing House will notify the ForexClear Clearing Members (via the originating ForexClear Approved Trade Source System or ClearLink API) of registration or rejection of the ForexClear Transaction; or
- (C) a Final Transaction, the Clearing House will notify the ForexClear Clearing Members and the originating ATSP of registration or rejection of the ForexClear Transaction,

in each case within the required timeframe under all Applicable Law.

- (iv) As provided in paragraph 1.2.5(d) (*Novation and Registration*), in respect of messages confirming registration, the time of dispatch of such message shall be the Registration Time of that ForexClear Contract.
- (v) The internal sub-account (i.e. FXCCM, branch, or FXD) into which each trade record is booked is derived from the BIC code within the message from the ForexClear Approved Trade Source System or ATSP. The BIC links to the FXCCM reference data.
- (vi) Both new trade records arising out of the ForexClear Transaction have the same unique ForexClear ID (the "**ForexClear ID**"). Any further events or actions are applied on the basis of this ForexClear ID, to ensure consistency.

(b) *Checks*

- (i) The counterparties to each ForexClear Transaction must be those specified under the ForexClear Eligibility Criteria in respect of such ForexClear Transaction and each FXCCM clearing the ForexClear Transaction must be approved by the Clearing House to clear the relevant trade type (the "**Counterparty Technical Validation Check**").
- (ii) In respect of a ForexClear Non-Deliverable Transaction (A) the Valuation Date and Settlement Date for the ForexClear Transaction must fall on a valid Business Day for the Currency Pair to which the ForexClear Transaction relates, and (B) the Settlement Date must fall on a Business Day after the Valuation Date. FXCCMs should refer to the Relevant EMTA Template or LCH Non-EMTA Contract Template for further details of

the relevant Business Days for determining the Valuation Date and the Settlement Date.²

- (iii) The Clearing House will apply:
- (A) an "**Incremental Risk Check**" to each ForexClear Transaction, except a Sub-Block Trading Venue Transaction and a Sub-25 NDF DTV Transaction. The Incremental Risk Check uses a suitable approximation methodology to estimate an FXCCM's Liabilities (including the new ForexClear Transaction) against available Collateral (taking into account ForexClear Tolerance and/or MER Buffer made available by the Clearing House, if any). However, any ForexClear Transaction submitted by an FXCCM that is risk reducing (i.e. results in a reduction of that FXCCM's Liabilities) will always pass the Incremental Risk Check, even if the FXCCM has not transferred sufficient Collateral in respect of its Liabilities to the Clearing House;
 - (B) a "**Settlement Exposure Limit Check**" on a per currency basis to each ForexClear Deliverable Transaction. The Settlement Exposure Limit Check uses an approximation methodology to assess an FXCCM's Settlement Exposure Amount for each Settlement Exposure Date against a pre-determined Settlement Exposure Limit; and
 - (C) a "**Separate Risk Check**" to each Sub-25 NDF DTV Transaction. The Separate Risk Check is to determine whether, in relation to any FXCCM clearing the Sub-25 NDF DTV Transaction:
 - (i) its available Collateral (taking into account ForexClear Tolerance and/or MER Buffer made available by the Clearing House, if any) compared with its Liabilities (excluding the new Sub-25 NDF DTV Transaction) is sufficient, taking into account the Clearing House's internal credit rating for such FXCCM;
 - (ii) the Clearing House's Risk Department has requested the Clearing House to reject such Sub-25 NDF DTV Transaction.; and
 - (iii) such FXCCM, which is clearing such Sub-25 NDF DTV Transaction for a ForexClear Clearing

² As amended from time to time as per relevant EMTA Template.

Client, has requested the Clearing House to reject such Sub-25 NDF DTV Transaction.

- (iv) In the case of a ForexClear Settlement Event, the Clearing House will apply additional checks to each ForexClear Spot Transaction by reference to its impact on the Settlement Position Amount of the Impacted ForexClear Option Clearing Member.
 - (v) Each relevant FXCCM must pass the Counterparty Technical Validation Check, Incremental Risk Check, Settlement Exposure Limit Check and Separate Risk Check (in each case, if applicable) in order for the Clearing House to register two ForexClear Contracts or one ForexClear Contract and one FCM ForexClear Contract (as applicable).
 - (vi) If any relevant FXCCM fails the Counterparty Technical Validation Check, Incremental Risk Check, Settlement Exposure Limit Check and and/or Separate Risk Check (in each case, if applicable), or the ForexClear Transaction is subject to Automatic Rejection pursuant to Section 1.3.4(d), then the ForexClear Transaction will be rejected immediately and a notification sent in accordance with Section 1.3.4(a)(iii).
- (c) *Necessary Consent*
- (i) In the case of an FXCCM which has been nominated to register a ForexClear Transaction on behalf of a third party Executing Party other than an FXD, the Clearing House will (only where such ForexClear Transaction is not a Trading Venue Transaction) provide notification to such FXCCM of the relevant ForexClear Transaction and that it has been so nominated, via member reports, the ClearLink API or otherwise ("**Notification**"). Where an FXCCM is nominated to clear both ForexClear Contracts arising from the registration of a ForexClear Transaction in the capacities described in this paragraph, such FXCCM will receive two separate Notifications from the Clearing House in relation to such ForexClear Transaction. All Notifications shall be provided within the required timeframe under all Applicable Law. In all other cases, no Notification will be provided to any FXCCM.
 - (ii) In respect of a ForexClear Transaction that is not a Trading Venue Transaction, following receipt of a Notification, an FXCCM may choose to grant or refuse consent to register the ForexClear Transaction. It is a condition for registration of such a ForexClear Transaction that an FXCCM grants a separate consent (each, a "**Necessary Consent**") in respect of each Notification received by it in relation to the registration of such ForexClear Transaction. The Clearing House has an automated system which it operates on each business day for the purposes

of rejecting ForexClear Transactions which have been presented for clearing but in respect of which any Necessary Consent has not been notified to the Clearing House prior to the LCH Cut-off Time. The "LCH Cut-off Time" in respect of a ForexClear Transaction will be the expiry of the timeframe determined by the Clearing House. If an FXCCM has not notified the Clearing House of a Necessary Consent by the LCH Cut-off Time, it will be deemed to have rejected the relevant ForexClear Transaction. Any Necessary Consent of a ForexClear Transaction notified by an FXCCM to the Clearing House prior to the LCH Cut-off Time is irrevocable. Any Necessary Consent notified by an FXCCM to the Clearing House after the LCH Cut-off Time shall be invalid.

- (iii) In circumstances where the registration of a ForexClear Transaction is conditional upon one or more Necessary Consent(s) being notified by the applicable FXCCM(s), the relevant ForexClear Transaction shall be deemed to have been "submitted" to the Clearing House by each such FXCCM at the time when it notifies the Clearing House of its Necessary Consent. In all other circumstances, a ForexClear Transaction shall be "submitted" to the Clearing House by the applicable FXCCM upon being presented to the Clearing House for clearing by or on behalf of such FXCCM or by or on behalf of a ForexClear Dealer (acting in such capacity with respect to the relevant ForexClear Transaction) approved to clear ForexClear Transactions through the relevant FXCCM.
- (iv) Where, in the context of a Default, the Clearing House executes a hedging ForexClear Transaction, which is:
 - (A) not a Trading Venue Transaction, with a Hedging ForexClear Service Clearing Member for the purpose of Risk Neutralisation, and such ForexClear Transaction is presented for clearing to the Clearing House, the Defaulting FXCCM shall be deemed to have received a Notification, in respect of such ForexClear Transaction, and to have notified a Necessary Consent, in respect of such ForexClear Transaction, to the Clearing House before the relevant LCH Cut-off Time; and
 - (B) a Trading Venue Transaction, with a Hedging ForexClear Service Clearing Member for the purpose of Risk Neutralisation, and such ForexClear Transaction is presented for clearing to the Clearing House, the Trading Venue on which such ForexClear Transaction was executed shall be deemed to be an Eligible Trading Venue, in respect of the Defaulting FXCCM, at the time of execution of such ForexClear Transaction and such ForexClear Transaction shall be deemed to be an

Eligible Trading Venue Transaction, in respect of the Defaulting FXCCM.

- (v) The Clearing House will (where applicable) apply a “**Consent Validation Check**” in respect of a ForexClear Transaction presented for clearing that is not a Trading Venue Transaction in order to ensure that the Clearing House has received all required Necessary Consents, in accordance with Section 1.3.4(c)(ii).
- (d) *Automatic Rejection*
- (i) A Designated Trading Venue may elect, in the manner and by the time determined by the Clearing House, that each Over-25 NDF Transaction executed on such Designated Trading Venue and presented to the Clearing House for registration as two ForexClear Contracts (or one ForexClear Contract and one FCM ForexClear Contract) is automatically rejected by the Clearing House (“**Rejection Election**”). If the Clearing House receives a Rejection Election from a Designated Trading Venue (in the manner and by the time determined by the Clearing House), it will, on and from the time and date determined by it, reject each Over-25 NDF Transaction that is executed on such Designated Trading Venue and presented to it for registration (“**Automatic Rejection**”).
 - (ii) If a Designated Trading Venue has provided a Rejection Election to the Clearing House, but subsequently determines that it no longer wishes Over-25 NDF Transactions executed on such Designated Trading Venue to be subject to Automatic Rejection, it may withdraw such Rejection Election by providing notice to Clearing House in the manner and by the time determined by the Clearing House, after which the Clearing House will, on and from the time and date determined by the Clearing House, cease to apply Automatic Rejection to Over-25 NDF Transactions that are executed on such Designated Trading Venue and presented to the Clearing House for registration, and will, instead, accept or reject each such Over-25 NDF Transaction in accordance with the Rulebook.
- (e) *Registration*
- (i) Once it is confirmed that a ForexClear Transaction has passed the Validation Checks, and the Clearing House has determined to accept the ForexClear Transaction for registration, the Clearing House registers the ForexClear Transaction as two ForexClear Contracts (or one ForexClear Contract and one FCM ForexClear Contract (as applicable)) and changes the status for each ForexClear Transaction to "NOVATED".

- (ii) The Clearing House acknowledges the ForexClear Contract status and sends a message to the entities specified in Section 1.3.4(a)(iii) that the ForexClear Transaction is registered and "NOVATED".
- (iii) Where, in the context of a Default, the Clearing House executes a hedging ForexClear Transaction with a Hedging ForexClear Service Clearing Member for the purpose of Risk Neutralisation, and such ForexClear Transaction is presented for clearing to the Clearing House, the Clearing House may determine (in its sole discretion) that any Validation Check(s) in respect of such ForexClear Transaction are deemed to have been passed and that Automatic Rejection is deemed to not apply.

1.3.5 *Trade Rejection*

Trades presented for registration that do not meet the ForexClear Eligibility Criteria or any other requirement for registration under the Rulebook, or that are subject to Automatic Rejection, including a trade:

- (a) presented by or on behalf of an FXCCM in respect of a third party Executing Party other than an FXD where such trade was executed on a Trading Venue that was not at the time of execution of such trade an Eligible Trading Venue in respect of such FXCCM;
- (b) that:
 - (i) is not a Final Transaction;
 - (ii) is presented by or on behalf of an FXCCM; and
 - (iii) was executed on a trading venue or facility that had not at the time of the execution of such trade been approved by the Clearing House as a Trading Venue;
- (c) that contains invalid or incomplete message data; or
- (d) that is not a Sub-Block Trading Venue Transaction and with respect to which the Clearing House has not received sufficient Collateral (taking into account ForexClear Tolerance and/or MER Buffer, if any),

will, in each case, be rejected.

If a trade is presented to the Clearing House for registration and rejected, it may be re-presented for registration in the form of a new trade but with the same economic terms in accordance with, and subject to, the Rulebook and all Applicable Law, and such trade will, for the purposes of the Rulebook and upon such re-presentation, constitute a new trade.

1.3.6 *Package Transactions*

Subject to Clearing House availability, a ForexClear Clearing Member may, via an Approved Trade Source System, present to the Clearing House, in a single submission, a group of two or more ForexClear Transactions (which are not Final Transactions) for simultaneous registration (such group of ForexClear Transactions being a “**Package Transaction**”). A Package Transaction must be identified to the Clearing House at the time of its presentation in the format prescribed by the Clearing House. Where the Package Transaction is not presented in the prescribed format, each constituent ForexClear Transaction within the Package Transaction will be rejected.

Where the Clearing House receives a Package Transaction for registration it shall treat each ForexClear Transaction that forms part of the Package Transaction as a new ForexClear Transaction in accordance with the Rulebook and, where each constituent ForexClear Transaction within the Package Transaction meets the registration requirements as set out in the Rulebook (including the provision of Collateral, where applicable), the Clearing House will simultaneously register all of the ForexClear Transactions within that Package Transaction. Where one or more of the constituent ForexClear Transactions does not meet the Clearing House’s registration requirements then all of the constituent ForexClear Transactions of the Package Transaction shall be rejected.

Where a constituent ForexClear Transaction of a Package Transaction is a US Trading Venue Transaction, it is a condition of registration that all of the constituent ForexClear Transactions be US Trading Venue Transactions; where such condition is not met, all constituent ForexClear Transactions of the Package Transaction will be rejected. In respect of a Package Transaction comprising ForexClear Transactions that are not executed on any US Trading Venue, the Clearing House will send a Notification to the relevant ForexClear Clearing Member(s) for the acceptance of each such constituent ForexClear Transaction.

In respect of a Package Transaction submitted in a ForexClear Clearing Member’s name, such ForexClear Clearing member’s margin requirement will be assessed based on the net margin call for all of the constituent ForexClear Transactions of such Package Transaction.

The Clearing House may limit the number of ForexClear Transactions that may be included in a Package Transaction by way of member circular.

1.3.7 *Manual Trade Rejection, Novation and Cancellation (Exceptional Event)*

- (a) From time to time, as an exceptional event, it may be necessary for the Clearing House to: (i) reject a trade submitted for registration; (ii) register a ForexClear Transaction; or (iii) accept or reject a cancellation request for a ForexClear Contract or a ForexClear Transaction, in each case, manually prior to a Margin and Settlement Run (e.g. in the case of a Default, when a ForexClear Transaction needs to be registered immediately to expedite the hedging and auction process or to reject a ForexClear Transaction received from an FXCCM which is a Defaulter).
- (b) The Clearing House acknowledges the action:
 - (i) in respect of trades being manually rejected or manually registered, by notifying the relevant entities specified in Section 1.3.4(a)(iii) of such rejection or registration (as applicable); and
 - (ii) in respect of a ForexClear Contract or a ForexClear Transaction being manually cancelled, by sending a message to the ForexClear Approved Trade Source System that it is "CANCELLED".

1.3.8 Trade Cancellation

- (a) The Clearing House accepts cancellation messages from FXPs against both ForexClear Transactions (other than Final Transactions and Sub-25 NDF DTV Transactions) and ForexClear Contracts (other than ForexClear Contracts arising from the clearing of Final Transactions or Sub-25 NDF DTV Transactions).
- (b) Cancellation messages may be submitted via the ForexClear Approved Trade Source System (i) with respect to any ForexClear Non-Deliverable Contract, until such ForexClear Contract is "**fixed**" (i.e. when its Settlement Rate has been determined on the relevant Valuation Date), (ii) with respect to any ForexClear Option Contract, until the time on the Business Day preceding the relevant Expiration Date, which time is as determined by the Clearing House, and (iii) with respect to any ForexClear Spot Contract, ForexClear Swap Contract or ForexClear Deliverable Forward Contract, until the time on the second Business Day immediately preceding the Settlement Date, which time is as determined by the Clearing House.
- (c) A successful cancellation message results in a "CANCELLED" status message if the ForexClear Transaction or the ForexClear Contract (as the case may be) is cancelled during the Opening Hours. The status messages are sent from the Clearing House to the FXCCM via the ForexClear Approved Trade Source System.
- (d) There is no ForexClear Contract or ForexClear Transaction amendment functionality.
- (e) *Process Flow Description*

- (i) The Clearing House accepts trade cancellation instructions from the ForexClear Approved Trade Source System for ForexClear Transactions (other than Final Transactions and Sub-25 NDF DTV Transactions) or ForexClear Contracts (other than ForexClear Contracts arising from the clearing of Final Transactions or Sub-25 NDF DTV Transactions), as the case may be, that have previously been submitted to the ForexClear Service. Cancellation instructions must include the ForexClear ID.
- (ii) The Clearing House checks that the cancellation instruction contains a valid ForexClear ID which relates to: (a) a ForexClear Transaction or ForexClear Contract (as the case may be) that has not been previously cancelled; and (b) in the case of a ForexClear Non-Deliverable Contract only, a ForexClear Contract with respect to which the relevant Valuation Date has not yet occurred.
- (iii) Where a trade has already been rejected (e.g. as a result of having failed a Counterparty Technical Validation Check), the ForexClear Service sends a "CANCEL REJECTED" message to the ForexClear Approved Trade Source System for the relevant FXPs.
- (iv) All trade cancellation instructions must pass the Incremental Risk Check and Settlement Exposure Limit Check, where applicable. If any FXCCM has not transferred sufficient Collateral in respect of its Liabilities or estimated Liabilities to the Clearing House (taking into account ForexClear Tolerance and/or MER Buffer, if any) at the time of the relevant Incremental Risk Check or Settlement Exposure Limit Check, as applicable, then any ForexClear trade cancellation instruction to which it is a party will be rejected immediately. However, any ForexClear trade cancellation instruction that is risk reducing (i.e. results in a reduction of that FXCCM's Liabilities) will always pass the Incremental Risk Check, even if the FXCCM has not transferred sufficient Collateral in respect of its Liabilities to the Clearing House.

1.3.9 *Valuation Date Event Management:* The Clearing House is the Calculation Agent and will store and apply the Settlement Rate Option and the Valuation Date for each ForexClear Non-Deliverable Contract.

On the Valuation Date with respect to each ForexClear Non-Deliverable Contract, the Settlement Rate will be retrieved as set forth in paragraph (a) below. The Market Data provider for Settlement Rates is Reuters.

ForexClear applies the relevant Settlement Rate to ForexClear Non-Deliverable Contracts using the following criteria:

- (a) Settlement Rate Option source; and

(b) Valuation Date.

The Clearing House applies the Settlement Rate to all relevant ForexClear Non-Deliverable Contracts at a predefined time following its publication.

The Clearing House calculates the Settlement Currency Amount in the Settlement Currency per ForexClear Non-Deliverable Contract. FXCCMs can retrieve the Settlement Rate and Settlement Currency Amount in the Settlement Currency via ForexClear Reporting (as defined in Section 1.7 (*ForexClear Reporting*)) on the ForexClear Service Portal and on MemWeb, which are internet services onto which information is loaded and can be accessed by FXCCMs.

(c) *Process Flow Description*

- (i) After the Registration Time for a ForexClear Non-Deliverable Contract, the ForexClear Service links a Settlement Rate Option to it in accordance with the Relevant EMTA Template or given LCH Non-EMTA Contract Template, as applicable.
- (ii) On the Valuation Date, the Clearing House uses the Settlement Rate for the Currency Pair for the ForexClear Non-Deliverable Contract when it is published by Reuters, and calculates the Settlement Currency Amount for each ForexClear Non-Deliverable Contract in the Settlement Currency by applying the relevant Settlement Rate Option as referenced in the Relevant EMTA Template or given LCH Non-EMTA Contract Template, as applicable.

1.3.10 If the Settlement Rate Option set out in the Relevant EMTA Template or given LCH Non-EMTA Contract Template, as applicable, is unavailable at the relevant time, Disruption Fallback alternatives for the determination of the Settlement Rate will apply as set out in the Relevant EMTA Template or given LCH Non-EMTA. Notwithstanding the foregoing, in the event the Clearing House determines (in its sole discretion) that a Settlement Rate Option is unavailable, the Clearing House will determine an alternative Settlement Rate Option.

1.3.11 *Settlement:* With respect to each ForexClear Non-Deliverable Contract, the Settlement Currency Amount is calculated by the application of the Settlement Rate to the Notional Amount in accordance with the relevant ForexClear Contract Terms.

From (and including) the Registration Time to (and including) the business day immediately preceding the Settlement Date, changes in the daily value of open ForexClear Non-Deliverable Contracts will have resulted in variation margin credits and debits or NPV Payments between the parties (as set out at Section 1.5.2 (*Variation Margin and NPV Payments*)). With respect to each ForexClear Non-Deliverable Contract, on the business day immediately preceding the Settlement Date, the Clearing House nets the Settlement Currency Amount against the aggregate net variation margin or aggregate

NPV Payments (as applicable) which have been paid/received through the term of the ForexClear Non-Deliverable Contract, the result of which is a Net Settlement Amount ("NSA"), which will be reflected in the FXCCMs' cash accounts with the Clearing House on the Settlement Date. As such, with respect to each ForexClear Non-Deliverable Contract, the transfer to the Clearing House of either (i) all the Collateral in respect of the variation margin in respect that ForexClear Non-Deliverable Contract, or (ii) all the NPV Payments required pursuant to the relevant ForexClear STM Terms of that ForexClear Non-Deliverable Contract shall satisfy the relevant party's obligation to pay the Settlement Currency Amount on the Settlement Date of such ForexClear Non-Deliverable Contract. For the purpose of providing Nostro reconciliations, to the relevant parties, the Clearing House will provide Reporting (as defined in Section 1.7 (*ForexClear Reporting*)) which will reflect an entry for the "**Settlement Currency Amount**" and a separate entry for the reversal of the aggregate net variation margin or NPV Payments which have been paid/received through the term of the ForexClear Non-Deliverable Contract. This paragraph applies even if the Settlement Date has been adjusted in accordance with the relevant ForexClear Contract Terms.

- 1.3.12 **Portfolio Transfers (BAU).** The Clearing House permits the transfer of one or more Transferring ForexClear Contracts between the Transfer Account of an Eligible Transferor to the Transfer Account of an Eligible Transferee, including, where relevant, the transfer of an Associated Collateral Balance. For the avoidance of doubt, and subject to the requirements of FCM Regulation 49(r), an FXCCM acting for its own account or for the account of an FCM Client, may be an Eligible Transferor or an Eligible Transferee.

For transfers other than Permitted Transfers (as defined below), please contact the Clearing House's Risk Management Department.

Permitted Transfers

Any transfer that meets the criteria in any of (a) through (g) below shall be a "**Permitted Transfer**" for purposes of Regulation 95 and this Section 1.3.12. In certain circumstances, a Permitted Transfer may be effected for all or part of the notional amount associated with the Transferring ForexClear Contracts. Notwithstanding the foregoing, but subject to Applicable Law, the Clearing House may reject any Permitted Transfers in its sole discretion.

- (a) a transfer of one or more Transferring ForexClear Contracts where: (A) the Transfer Account of the Eligible Transferor is a Client Account; (B) the Transfer Account of the Eligible Transferee is a Client Account; and (C) the Receiving Clearing Member and the Carrying Clearing Member are separate legal entities;
- (b) a transfer of one or more Transferring ForexClear Contracts where: (A) the Transfer Account of the Eligible Transferor is a Client Account; (B) the Transfer Account of the Eligible Transferee is a Client Account; and (C) the Receiving Clearing Member and the Carrying Clearing Member are the same legal entity;
- (c) a transfer of one or more Transferring ForexClear Contracts where: (A) the Transfer Account of the Eligible Transferor is a Client Account; (B) the Transfer Account of the Eligible Transferee is a Proprietary Account; and (C) the Receiving Clearing Member and the Carrying Clearing Member are separate legal entities;
- (d) a transfer of one or more Transferring ForexClear Contracts where: (A) the Transfer Account of the Eligible Transferor is a Proprietary Account; (B) the Transfer Account of the Eligible Transferee is a Client Account; and (C) the Receiving Clearing Member and the Carrying Clearing Member are separate legal entities;
- (e) a transfer of one or more Transferring ForexClear Contracts where: (A) the Transfer Account of the Eligible Transferor is a Proprietary Account; (B) the Transfer Account of the Eligible Transferee is a Client Account; and (C) the Receiving Clearing Member and the Carrying Clearing Member are the same legal entity;
- (f) a transfer of one or more Transferring ForexClear Contracts where: (A) the Transfer Account of the Eligible Transferor is a Client Account; (B) the Transfer Account of the Eligible Transferee is a Proprietary Account; and (C) the Receiving Clearing Member and the Carrying Clearing Member are the same legal entity; and
- (g) any transfer that the Clearing House otherwise approves in its sole discretion.

Transfer Requests

Each transfer request (“**Transfer Request**”) pursuant to Regulation 95, this Section 1.3.12 and (where applicable) any relevant Collateral Management Agreement may only be made in respect of a Permitted Transfer and must be prepared and submitted in the form and manner prescribed by the Clearing House from time to time. Following receipt of a Transfer Request, the Clearing House shall notify the Carrying Clearing Member that it received a Transfer Request to transfer Transferring ForexClear Contracts.

In respect of any Permitted Transfer that involves the transfer of all (and not some) of the ForexClear Contracts from the Transfer Account of an Eligible

Transferor (with or without the transfer of an Associated Collateral Balance), once the Carrying Clearing Member receives notice that a Transfer Request has been received, the Carrying Clearing Member shall not be permitted to submit additional ForexClear Contracts in the Transfer Account of the Eligible Transferor whose ForexClear Contracts are to be subject to transfer until the time at which the relevant transfer (including the transfer of any relevant Associated Collateral Balance, if applicable) is effected, fails or is rejected in accordance with Regulation 95, these Procedures and (where applicable) any relevant Collateral Management Agreement.

Transfer Notice Period

The timing for Transfer Requests will be as prescribed by the Clearing House by way of a member circular.

Conditions Precedent to Permitted Transfer

It is a condition precedent to any transfer pursuant to Regulation 95 and this Section 1.3.12 that:

- (h) the transfer is a Permitted Transfer;
- (i) the Receiving Clearing Member has provided the Clearing House with:
 - (i) a Transfer Request in the form and manner prescribed by the Clearing House, which may be submitted by a Clearing Client (including an FCM Client) on its behalf; and
 - (ii) such evidence of the authorisation of the Permitted Transfer by the Eligible Transferor, Eligible Transferee and the ForexClear Clearing Client, as applicable, as the Clearing House may require in its sole discretion;
- (j) neither the Eligible Transferor, the Eligible Transferee nor the ForexClear Clearing Client, as applicable, has become insolvent (each Eligible Transferor, Eligible Transferee and ForexClear Clearing Client, as the case may be, will be presumed to be solvent by the Clearing House unless evidenced to the contrary by the Carrying Clearing Member in the manner reasonably determined by the Clearing House);
- (k) neither the Carrying Clearing Member nor the Receiving Clearing Member is a Defaulter;
- (l) such transfer would not violate or result in the violation of Applicable Law, including:
 - (i) the authorisation, registration or other regulatory requirements, if any, that may apply to the Receiving Clearing Member as a consequence of the transfer; and

- (ii) where the transfer leads to a change in beneficial ownership, the requirements, if any, that may apply to the method of execution by which the Eligible Transferor has sold the Transferring ForexClear Contracts to the Eligible Transferee;
- (m) the Eligible Transferor, Eligible Transferee, the Receiving Clearing Member, the Carrying Clearing Member and ForexClear Clearing Client, as applicable, have each executed all documents necessary or required by the Clearing House in order to effect such transfer (including, where applicable, a Security Deed, Deed of Charge, Client Charge, Collateral Management Agreement, Clearing Membership Agreement and/or a Clearing Agreement);
- (n) the Receiving Clearing Member has consented to the transfer of the Transferring ForexClear Contracts and, where relevant, the Associated Collateral Balance;
- (o) the Receiving Clearing Member has transferred (or has made available) sufficient Collateral to the Clearing House in respect of its current ForexClear Contracts and the Transferring ForexClear Contracts;
- (p) the Carrying Clearing Member has not rejected such transfer in accordance with this Section 1.3.12 (it being presumed that the Carrying Clearing Member has not so rejected the transfer unless evidenced to the contrary by the Carrying Clearing Member in accordance with this Section 1.3.12 or as otherwise reasonably determined by the Clearing House);
- (q) in the event that the transfer will lead to a requirement for the Carrying Clearing Member to transfer (or make available) additional Collateral or any other payment to the Clearing House, the Carrying Clearing Member transfers sufficient Collateral or makes such payment to the Clearing House; and
- (r) in relation to a Custodial Segregated Account, any additional conditions that have been agreed between the Clearing House, the Carrying Clearing Member, the Receiving Clearing Member and/or any Custodial Segregated Client have been satisfied.

In the event that any of the conditions set forth above are not satisfied, including where the Carrying Clearing Member notifies the Clearing House that certain conditions have not been satisfied in a manner reasonably acceptable to the Clearing House, the Clearing House shall not proceed with the transfer of the Transferring ForexClear Contracts or, if applicable, the transfer of any Associated Collateral Balance, and shall promptly notify the Receiving Clearing Member of such outcome. If the Receiving Clearing Member wishes to proceed with such transfer or any other transfer of Transferring ForexClear Contracts of the Eligible Transferor(s), it shall be required to submit a new Transfer Request in accordance with these Procedures.

By requesting a transfer of the Transferring ForexClear Contracts from the Transfer Account of an Eligible Transferor and, if applicable, the associated Collateral pursuant to Regulation 95, this Section 1.3.12 and (where applicable) any relevant Collateral Management Agreement, including a request submitted by a Clearing Client (including an FCM Client) on its behalf, the Receiving Clearing Member shall be deemed to have represented to the Clearing House that all of the conditions to such transfer set forth herein have been satisfied.

Rejection of Transfer Request

The Carrying Clearing Member may be entitled to reject a particular Transfer Request by notifying the Clearing House (in either electronic or written form as prescribed by the Clearing House) only if:

- (s) the Eligible Transferor has failed to satisfy all outstanding obligations that are due and payable to the Carrying Clearing Member and/or its Affiliates, including any requirement for additional collateral that may result from the proposed transfer, where, with the respect to obligations owed to Affiliates of the Carrying Clearing Member by an Eligible Transferor, “obligations” shall consist only of those obligations that arise as a result of cross-margining, cross-netting or other similar arrangements with respect to the Transferring ForexClear Contracts of that Eligible Transferor that are being transferred or that Eligible Transferor’s related collateral;
- (t) the transfer of the Transferring ForexClear Contracts of that Eligible Transferor would result in the Eligible Transferor breaching exposure limits with, and/or other risk parameters set by, the Carrying Clearing Member and/or its Affiliates; or
- (u) such rejection is in accordance with terms agreed as between the Carrying Clearing Member and the relevant Eligible Transferor.

Right to Call Collateral

Permitted Transfers will only be effected once adequate Collateral is available (which may be as a consequence of margin forbearance or the transfer of Associated Collateral Balance) in respect of both Transfer Accounts affected by the transfer. In connection with any Permitted Transfer, the Clearing House may call for Collateral in respect of initial and/or variation margin to be deposited in such amounts and at such times as the Clearing House, in its sole discretion, requires. Any Collateral so called and deposited shall be reserved and made available solely in connection with the Permitted Transfer.

Transfer of Associated Collateral Balance

Where a Receiving Clearing Member notifies the Clearing House of a proposal to transfer an Associated Collateral Balance in connection with a Permitted Transfer, the Clearing House shall notify the Carrying Clearing Member of such request. Following such notification and upon request from the Clearing House, the Carrying Clearing Member shall confirm to the

Clearing House the specific collateral that should comprise such Associated Collateral Balance(s). In the event that the Carrying Clearing Member fails to notify the Clearing House of the specific collateral that should comprise the Associated Collateral Balance(s), the Clearing House shall identify and select the Collateral it deems appropriate to comprise the Associated Collateral Balance(s) attributable to the Transferring ForexClear Contracts, in its sole discretion. Any Collateral so identified shall be reserved and made available solely in connection with the Permitted Transfer. Once the relevant Associated Collateral Balance(s) of the transfer have been notified by the Clearing House to the Receiving Clearing Member, the Receiving Clearing Member may elect to reject the transfer of some or all of such Associated Collateral Balance(s).

Any such election will not, of itself, prevent the transfer of the Transferring ForexClear Contracts of the Eligible Transferor and any Associated Collateral Balance that has been accepted by the Receiving Clearing Member, provided that the conditions set out above are satisfied in relation to such transfer. The Clearing House shall transfer the Associated Collateral Balance that has been identified and consented to by the Receiving Clearing Member. In the event that, for whatever reason, the Clearing House is unable to transfer such Associated Collateral Balance, the Clearing House will not proceed with the transfer of the Transferring ForexClear Contracts. In such circumstances, the Clearing House will notify the Receiving Clearing Member that the Associated Collateral Balance will not be transferred and, in order to proceed with the transfer of the associated Transferring ForexClear Contracts, the Receiving Clearing Member will have to furnish to the Clearing House sufficient collateral in respect of the Transferring ForexClear Contracts.

In the case where a transfer of Transferring ForexClear Contracts pursuant to this Section 1.3.12 will include the transfer of Associated Collateral Balance(s) to the Transfer Account of the Eligible Transferee:

- (v) in respect of Associated Collateral Balance that is subject to a Deed of Charge entered into between the Carrying Clearing Member and the Clearing House, such transfer shall be effected as follows:
 - (i) the Carrying Clearing Member shall relinquish all rights to such Associated Collateral Balance (including, for the avoidance of doubt, any beneficial interest and/or equity of redemption in respect thereof);
 - (ii) such Associated Collateral Balance shall immediately upon such relinquishment be held by the Clearing House on behalf of the Receiving Clearing Member;
 - (iii) where the Receiving Clearing Member is not an FCM Clearing Member, its rights to such Associated Collateral Balance arising as described in 1.3.12(v)(ii) above shall become, in respect of the Transferring ForexClear Contracts, subject to the relevant Deed of Charge entered into between the Receiving Clearing Member and the Clearing House (such rights thereby

becoming Charged Property within the meaning of that Deed of Charge); and

- (iv) where the Receiving Clearing Member is an FCM Clearing Member, the Associated Collateral Balance shall be deemed to have been delivered by the Receiving Clearing Member to the Clearing House by way of a first-priority security interest granted by the Receiving Clearing Member to the Clearing House under the FCM Regulations and the FCM Clearing Membership Agreement between the Receiving Clearing Member and the Clearing House;
- (w) in respect of any part of an Associated Collateral Balance that is not subject to a Client Charge or the Deed of Charge entered into between the Carrying Clearing Member and the Clearing House, such transfer shall be by novation of the Carrying Clearing Member's rights and obligations in respect of such part of the Associated Collateral Balance to the Receiving Clearing Member;
- (x) in respect of any part of an Associated Collateral Balance that is subject to the Client Charge entered into between a Custodial Segregated Client, the Clearing House and the Carrying Clearing Member, such transfer shall be effected as set out in and in accordance with: (i) the relevant Collateral Management Agreement entered into between such Custodial Segregated Client, the Clearing House and the Carrying Clearing Member, and (ii) the relevant Collateral Management Agreement entered into between such Custodial Segregated Client, the Clearing House and the Receiving Clearing Member;
- (y) for the avoidance of doubt, the Carrying Clearing Member shall have no right or entitlement to assert any claim over, or right with respect to, the transferred Associated Collateral Balance;
- (z) LCH shall promptly transfer the Transferring ForexClear Contracts and Associated Collateral Balance, and the transfer of the Transferring ForexClear Contracts shall be conditioned on the transfer of the Associated Collateral Balance, and vice versa;
- (aa) if the transfer of the Transferring ForexClear Contracts and Associated Collateral Balance is not completed for any reason, then any actual transfer of any part of the Associated Collateral Balance or Transferring ForexClear Contracts that has occurred, as the case may be, shall be deemed not to have occurred, and any actual transfer of any part of the Associated Collateral Balance or Transferring ForexClear Contracts that has occurred shall be immediately unwound;
- (bb) that portion (if any) of:
 - (i) the Clearing House Current Collateral Balance in respect of the Carrying Clearing Member which is attributable to the

Transferring ForexClear Contracts (the “**Relevant Portion**”) shall be reduced to zero; and

- (ii) the Clearing House Current Collateral Balance in respect of the Receiving Clearing Member shall be increased by an amount equal to the value of the Relevant Portion immediately prior to the reduction referred to in (i) immediately above.

Verification and Reliance

Subject to the following paragraph, but otherwise notwithstanding anything to the contrary in the Regulations or these Procedures, in making any Transfer Request in accordance with Regulation 95 and this Section 1.3.12 and (where applicable) any relevant Collateral Management Agreement, the Clearing House shall be authorised and entitled to rely conclusively on the instructions of, and information provided by, the Receiving Clearing Member and the Carrying Clearing Member, which shall be solely responsible for all such instructions and information.

The Clearing House shall verify that the Transferring ForexClear Contracts identified to it by a Receiving Clearing Member as being the subject of such Transfer Request correspond to ForexClear Contracts that, according to its records, are registered in the Transfer Account of the Carrying Clearing Member on behalf of the Eligible Transferor. In the event that the Clearing House identifies a discrepancy, it will notify the Receiving Clearing Member and the Carrying Clearing Member and no transfer will occur until such time as the Transferring ForexClear Contracts identified to the Clearing House can be verified to the Clearing House.

Intra-Clearing Member Transfers

In connection with any Permitted Transfer of Transferring ForexClear Contracts where the Transfer Account of the Eligible Transferor and the Transfer Account of the Eligible Transferee are held by the same FXCCM (i.e., where the same FXCCM serves as both the Carrying Clearing Member and the Receiving Clearing Member), such FXCCM shall be deemed to make the following agreements, acknowledgements and representations:

- (cc) the contractual terms of the Transferring ForexClear Contracts will not change solely as a result of the Clearing House effecting the Permitted Transfer;
- (dd) the FXCCM will remain liable to the Clearing House for all obligations under the Transferring ForexClear Contracts prior to, during and after the Permitted Transfer;
- (ee) the Clearing House may require that certain changes be made to the books and records of one or more Approved Trade Source Systems in order to reflect the Permitted Transfer;
- (ff) the Clearing House is acting solely upon the FXCCM's instructions as detailed to the Clearing House in writing and in reliance on the FXCCM's agreements and representations (including as set out in this Section 1.3.12) in connection therewith;
- (gg) the Permitted Transfer is permissible under Applicable Law and is not in violation of Applicable Law, and the FXCCM has obtained any and all necessary and appropriate consents, authorisations and approvals, and has taken any other actions required under Applicable Law in connection with the Permitted Transfer; and
- (hh) the Clearing House shall not be liable for any costs, expenses, damages or losses, whether direct or indirect, suffered by any of the parties hereto, or by the Eligible Transferor or Eligible Transferee, as a result of any actions taken by the Clearing House in connection with the Permitted Transfer.

Fees

Any Permitted Transfer effected pursuant to Regulation 95 and in accordance with these Procedures and (where applicable) any relevant Collateral Management Agreement will be subject to such fees as are established by the Clearing House from time to time in its sole and absolute discretion, and notified to FXCCMs via a member circular.

The portfolio transfer capability allows the transfer of:

- (ii) A single ForexClear Contract.
- (jj) Part of an FXCCM's portfolio (which includes the ability to transfer ForexClear Contracts to various other FXCCMs, e.g. Bank A to Bank C for USD/KRW and Bank A to Bank D for USD/BRL).
- (kk) Portfolio transfer (i.e. the transfer of all or just one of the portfolios belonging to an FXCCM).
- (ll) Multiple portfolio transfers (i.e. the transfer of several portfolios of an FXCCM).

The Clearing House will carry out the portfolio transfer. For transfers under (jj), (kk) and (ll), this can be on either (i) a ForexClear Contract by ForexClear Contract basis, or (ii) in respect of ForexClear Non-Deliverable Contracts, on a Currency Pair basis.

Before the completion of a portfolio transfer, the Clearing House will perform a margin impact analysis of the transfer to the source and destination portfolios. The Clearing House will advise the relevant FXCCM regarding any additional Collateral that may be required in order to complete the portfolio transfer.

Legal Documentation

The transfer of ForexClear Contracts will be documented in accordance with the standard legal documentation for the transfer of ForexClear Contracts provided by the Clearing House to FXPs. Any such transfer must be authorised by all relevant parties and executed by individuals with appropriate signing authority.

1.3.13 *Reference Data*

(a) *Holiday Event Calendar:*

The ForexClear Service uses the SwapsMonitor Financial Calendar (as published by Swaps Monitor Publications, INC.) (“**SwapsMonitor Financial Calendar**”) in order to determine holidays. This requires all ForexClear Participants to be licensees of the SwapsMonitor Financial Calendar.

If a change is declared that affects the SwapsMonitor Financial Calendar then, subject to paragraph (b) below, a corresponding calendar adjustment will be made in the ForexClear system, unless the Clearing House notifies FXCCMs otherwise that the relevant change will not apply to ForexClear Contracts. The Clearing House may temporarily close the ForexClear Service to process a calendar adjustment in its clearing system. FXCCMs will be notified in advance of the date, time and expected duration of such closure.

(b) *Date Adjustment:*

As a result of the calendar adjustment process, (i) the Valuation Date and/or the Settlement Date of any affected ForexClear Non-Deliverable Contracts will automatically be date adjusted in accordance with the provisions of the Relevant EMTA Template or given LCH Non-EMTA Contract Template, as applicable and (ii) the Settlement Date of any affected ForexClear Deliverable Contract will automatically be date adjusted in accordance with the Following Business Day Convention, as detailed in the Relevant EMTA Template.

Without limiting the foregoing, the Clearing House reserves the right to amend the Valuation Date and/or Settlement Date of a ForexClear Contract to reflect or account for a public holiday (or anticipated public holiday), in its sole discretion.

The Clearing House will notify the FXCCMs of any date adjustments made to any ForexClear Contract.

1.3.14 *ForexClear Tolerance*

In order to facilitate the registration of ForexClear Contracts by FXCCMs, the Clearing House may, in its sole discretion, provide FXCCMs with temporary “tolerance” in the form of initial margin forbearance (“**ForexClear Tolerance**”). In the event an FXCCM wishes to utilise ForexClear Tolerance, it must provide notice to the Clearing House (the form and manner of such notice shall be prescribed by the Clearing House from time to time). FXCCMs who are approved to utilise ForexClear Tolerance may choose not to utilize MER Buffer in connection with the registration of ForexClear Contracts (for the avoidance of doubt, the utilization of MER Buffer is compulsory for FXCCMs that do not opt-in to ForexClear Tolerance).

The Clearing House may apply ForexClear Tolerance between Margin and Settlement Runs in an amount equal to the value of the Collateral that would have been required to be transferred by the FXCCM to the Clearing House to cover the relevant Liabilities (or estimated Liabilities) to facilitate the registration of ForexClear Contracts. For the avoidance of doubt, ForexClear Tolerance is provided in the form of temporary initial margin forbearance and an FXCCM’s utilisation of ForexClear Tolerance does not give rise to any payment or transfer of Collateral by the Clearing House or result in any use of default fund resources (except following a Default).

The Clearing House will determine, in its sole discretion, the maximum value of the ForexClear Tolerance (which may be zero) that it will make available to an FXCCM from time to time (“**ForexClear Tolerance Limit**”). The Clearing House will notify each FXCCM of its ForexClear Tolerance Limit and will, as soon as reasonably practicable, notify an FXCCM following any adjustment to the amount of its ForexClear Tolerance Limit. Except where the Clearing House exercises its right to reduce an FXCCM’s ForexClear Tolerance Limit in accordance with the foregoing, each FXCCM utilising ForexClear Tolerance shall have an equal ForexClear Tolerance Limit.

The Clearing House may require an FXCCM to transfer Collateral to the Clearing House in respect of any utilisation of ForexClear Tolerance at any time and without prior notice to the FXCCM. Without limiting the foregoing, the Clearing House will call for Collateral to replenish the ForexClear Tolerance utilised by an FXCCM at (i) the last ITD/Ad-hoc Day Margin and Settlement Run and EOD Margin and Settlement Run of each business day and (ii) in the event an FXCCM utilises at least 75% of its ForexClear Tolerance during a business day, at the next relevant ITD/Ad-hoc Day Margin

and Settlement Run. Any failure of an FXCCM to satisfy a call for Collateral relating to ForexClear Tolerance may give rise to a Default by such FXCCM.

The Clearing House will not apply ForexClear Tolerance for ForexClear Contracts with a Trade Date earlier than the previous business day.

1.3.15 *Minimum Excess Requirement Buffer*

To facilitate the intraday registration of ForexClear Contracts, at each EOD Margin and Settlement Run, the Clearing House will call from each FXCCM an amount of Collateral in respect of its initial margin obligations in respect of that FXCCM's potential intraday Liabilities for the following day ("**MER Buffer**"), provided that the Clearing House shall not call MER Buffer from an FXCCM that (i) opted-in to ForexClear Tolerance in accordance with Section 1.3.14 and (ii) opted-out of MER Buffer (the form and manner of such "opt-out" notice shall be prescribed by the Clearing House from time to time).

The required amount of MER Buffer for an FXCCM is expressed as a percentage of the FXCCM's start-of-day portfolio initial margin, and is calibrated daily based on recent (or prospective) member activity such that higher levels of intraday trade volumes lead to a proportionally higher MER Buffer requirement and vice versa. The MER Buffer percentage is calculated as a given percentile of intraday peak relative initial margin changes over a given number of historical business day.

The parameters of MER Buffer are: MER percentile, MER lookback period, relative MER cap and absolute MER floor. The values of these parameters are calibrated based on the quantitative analysis of the FXCCMs' initial margin history across the ForexClear Service.

As ForexClear Contracts are registered in an FXCCM's name, the Clearing House will, in accordance with the Margin or Settlement Run process, calculate an FXCCM's intraday Liabilities (or, in the case of an Incremental Risk Check, the FXCCM's estimated Liabilities), taking into account any MER Buffer.

At each EOD Margin and Settlement Run, the Clearing House will recalculate and call the FXCCM's MER Buffer for the following day.

- 1.3.16 *Completion Margin.* The Clearing House shall calculate and call each FXCCM for "**completion margin.**" Completion margin is a component of each FXCCM's initial margin obligation, and represents potential increases in an FXCCM's initial margin obligations due to position changes resulting from next-day fixing, with respect to ForexClear Non-Deliverable Contracts, or next-day settlement, with respect to ForexClear Deliverable Contracts. Completion margin is calculated as the incremental difference between an FXCCM's aggregate initial margin obligations on its ForexClear Contracts and its initial margin obligations in relation to ForexClear Contracts due to fix or settle the next business day, as applicable.

1.3.17 *Risk Status*

- (a) The Clearing House may, in its absolute discretion, determine that an FXCCM is, or has ceased to be, subject to Risk Status (as applicable) and may:
 - (i) only where the Clearing House has determined that an FXCCM is subject to Risk Status, require such FXCCM to transfer additional Collateral (equal to the value determined by the Clearing House) to the Clearing House; and
 - (ii) notify each Designated Trading Venue of such determination in respect of Risk Status, in the manner and at the time determined by the Clearing House.
- (b) Without limitation to General Regulation 52, and subject to General Regulation 52(e), neither the Clearing House nor any other member of the LCH Group shall have any liability whatsoever to any FXCCM or any other person in contract, tort (including, without limitation, negligence), trust, as a fiduciary or under any other cause of action in respect of any damage, loss, cost or expense of whatsoever nature suffered or incurred in connection with:
 - (i) the Clearing House's determination that an FXCCM is, or has ceased to be, subject to Risk Status;
 - (ii) any delay in notifying, or failure to notify, a Designated Trading Venue of the Clearing House's determination that an FXCCM is, or has ceased to be, subject to Risk Status; and/or
 - (iii) a Designated Trading Venue's use, non-use or transmission of the information in Section 1.3.17(b)(i), or its delay in transmitting, or failure to transmit, such information to any person.

1.4 Market Data

1.4.1 *Sources used by ForexClear Service:* With respect to each ForexClear Contract, the ForexClear Service collates instrument quotes for the following from multiple market sources (as detailed in Section 1.4.2 (*Market Data Sources and Frequencies*)) in relation to each Currency Pair or ForexClear Currency Pair:

- (a) FX spot rates ("**FX Spot Rates**");
- (b) FX swap points ("**FX Swap Points**");
- (c) FX implied volatility points ("**FX Volatility Points**");
- (d) FX Settlement Rate Option;
- (e) Interest rate swap curves and Overnight index swap curves ("**Interest Rate Curves**");

- (f) PAI rates ("**PAI Rates**") or PAA rates ("**PAA Rates**"), as applicable;
 - (g) Country credit spreads ("**Country Credit Spreads**"); and
 - (h) FX spot reference prices ("**FX Spot Reference Prices**"),
- together, "**Market Data**".

FX Spot Rates, FX Swap Points and FX Volatility are received by the Clearing House via a live link from all eligible FXCCMs during the Opening Hours (as defined in paragraph (b) of Section 1.2.2 (*Service Operating Hours*)).

1.4.2 *Market Data Sources and Frequencies:* The Clearing House receives the following updated raw prices:

- (a) FX Spot Rates:
 - (i) Source – contributing FXCCMs.
 - (ii) Frequency - every time updated by contributing FXCCMs up to a maximum rate of once every five minutes.
- (b) FX Swap Points:
 - (i) Source - all contributing FXCCMs.
 - (ii) Frequency - every time updated by contributing FXCCMs up to a maximum rate of once every five minutes.
 - (iii) Tenors – as shown in the table below.

Tenor
O/N
T/N
S/N
1 week
1 month
2 months
3 months
6 months
9 months
12 months
24 months
36 months
48 months
60 months

- (c) FX Volatility Points:
 - (i) Source – all contributing FXCCMs.

- (ii) Frequency – every time updated by contributing FXCCMs up to a maximum rate of once every five minutes.
- (iii) Deltas and Tenors – as shown in the tables below. All delta points should be contributed for each tenor.

Tenor
O/N
1 week
2 weeks
1 month
2 months
3 months
6 months
9 months
12 months
18 months
24 months

Deltas
ATM
25-RR
25-Fly
10-RR
10-Fly

- (d) FX Non-Deliverable Settlement Rates:
 - (i) Source - Reuters.
 - (ii) Frequency - when published (as referenced in the Relevant EMTA Template or given LCH Non-EMTA Contract Template, as applicable).
- (e) Interest Rate Curves:
 - (i) Source - internal Clearing House.
 - (ii) Frequency - at each SwapClear margin run.
- (f) USD secured overnight financing rate curve:
 - (i) Source - SwapClear.
 - (ii) Frequency - at each SwapClear margin run.
- (g) PAI Rates and PAA Rates:
 - (i) Source - LCH Treasury.
 - (ii) Frequency - daily.

- (h) Country Credit Spreads:
 - (i) Source – Bloomberg.
 - (ii) Frequency – when published.
 - (i) FX Spot Reference Prices:
 - (i) Source – the source published on the ForexClear website from time to time.
 - (ii) Frequency – at each expiration time.
- 1.4.3 *Market Data Provision to FXCCMs*: Market Data used in a Margin or Settlement Run is made available to FXCCMs via ForexClear Reporting (as defined in Section 1.7 (*ForexClear Reporting*)).
- 1.4.4 *Curve Building in ForexClear*
- (a) *FX Curve (Zero Coupon/Market Rate Curve)*: The Clearing House builds for each Currency Pair an FX curve (zero coupon/market rate curve) using the FX Spot Rates, FX Swap Points and the USD secured overnight financing rate curve. The currency zero coupon curves are implied from the FX curve and the USD secured overnight financing rate curve; the FX curve is used for capitalisation of forward cash flows. Cross rates spot and forward curves will be triangulated from the non cross currency pairs (i.e., the currency pairs where USD is one of the currencies). Linear interpolation is applied on zero coupon curves.
 - (b) *Implied Volatility Surface*: The Clearing House builds for each Currency Pair or ForexClear Currency Pair an FX Implied Volatility Surface using the FX Volatility Points. Implied volatility interpolation is performed along both the delta and tenor axes. Interpolation is firstly applied on the delta axis of the two neighbouring implied volatility smiles, and then tenor axis interpolation is applied. To prevent arbitrages on the input volatility surfaces impacting on margining calculations, a de-arbitraging methodology is applied where an arbitrage exists on any reference volatility surfaces.
 - (c) *Interest Rate Curve*: The Clearing House applies standard bootstrap method to build the Interest Rate Curve. Linear interpolation is applied on zero coupon curves.
 - (d) *Curve Use*: End of day is defined as 22.00 local London time ("**EOD**"). The following EOD data is used in the calculation of risk analytics for an EOD Margin and Settlement Run (as defined in paragraph (b) of Section 1.6.1 (*Types of Margin or Settlement Runs*)):
 - (i) FX Spot Rates;
 - (ii) FX Swap Points; and

(iii) FX Volatility Points.

- 1.4.5 *Country Credit Spreads*: The Clearing House takes country credit spreads (in relation to Brazil, Russia, India, China, Chile, South Korea, Colombia, Indonesia, Malaysia, Philippines and Taiwan) from Bloomberg for use in risk multiplier calculations.

1.5 Initial Margin; Variation Margin and NPV Payments

1.5.1 Product Valuation

- (a) *ForexClear Non-Deliverable Contract*: From (and including) the Registration Time to the EOD Margin and Settlement Run on the business day preceding the Valuation Date, each ForexClear Non-Deliverable Contract is valued in USD using the current market rates and discounted from the future Settlement Date to its present value (being valued using the data submitted by FXCCMs, in accordance with Section 1.4.2 (*Market Data Sources and Frequencies*)).

At EOD on the Valuation Date, the Settlement Rate is used to value the ForexClear Non-Deliverable Contract.

If Valuation Postponement applies, the ForexClear Non-Deliverable Contract is valued using the current forward price (based on the data submitted by FXCCMs, in accordance with Section 1.4.2 (*Market Data Sources and Frequencies*)) to (and including) the date on which the Settlement Rate is determined in accordance with the relevant ForexClear Contract Terms.

In the event a Settlement Rate or market rate is unavailable, as determined by the Clearing House in its sole discretion, the Clearing House will determine an alternative Settlement Rate or market rate.

- (b) *ForexClear Spot Contracts, ForexClear Deliverable Forward Contracts and ForexClear Swap Contracts*: From (and including) the Registration Time to the EOD Margin and Settlement Run on the business day preceding the Settlement Date, each ForexClear Spot Contract, ForexClear Deliverable Forward Contract and ForexClear Swap Contract is valued in either USD or EUR using the current market rates and discounted from the future Settlement Date to its present value (using the data submitted by FXCCMs, in accordance with Section 1.5.2 (*Market Data Sources and Frequencies*)).
- (c) *ForexClear Option Contracts*: From (and including) the Registration Time to the Expiration Date, each ForexClear Option Contract is valued in USD or EUR using the Garman-Kohlhagen option pricing model (using the data submitted by FXCCMs, in accordance with Section 1.5.2 (*Market Data Sources and Frequencies*)).

- 1.5.2 *Variation Margin and NPV Payments*: A single separate calculation in respect of the variation margin or NPV Payment owed by or to the relevant FXCCM is performed for that FXCCM's Proprietary Account, each Client Account (other than an Indirect Gross Account and Omnibus Gross Segregated Account), each Indirect Gross Sub-Account within an Indirect Gross Account and each Omnibus Gross Segregated Sub-Account within an Omnibus Gross Segregated Account. No offset between the Proprietary Accounts and Client Accounts is allowed (except pursuant to Rule 8(d) of the Default Rules or any Insufficient Resources Determination Rule) and no offset between any Client Accounts is allowed (except pursuant to Rule 15(a)(ii) of the Default Rules, a Cross-ISA Client Excess Deduction or any Insufficient Resources Determination Rule).

The (i) variation margin requirement in respect of each ForexClear CTM Contract and (ii) the NPV Payments in respect of each ForexClear STM Contract are calculated at EOD as the change from the preceding business day in its net present value. The net sum of the variation margin requirements or NPV Payments (as applicable) with respect to all of the open ForexClear Contracts is credited or debited (separately for the relevant FXCCM's Proprietary Account, each Client Account (except an Indirect Gross Account and Omnibus Gross Segregated Account), each Indirect Gross Sub-Account within an Indirect Gross Account and each Omnibus Gross Segregated Sub-Account within an Omnibus Gross Segregated Account) once a day, following the EOD Margin and Settlement Run.

Collateral in respect of variation margin (adjusted by PAI, as set out below) will be transferred each business day by or to each FXCCM in respect of all of its open ForexClear CTM Contracts. The variation margin will be calculated and must be paid in the ForexClear Margin or Settlement Currency applicable to that ForexClear CTM Contract. For the avoidance of doubt, in the case of a ForexClear CTM Contract, any transfers of cash Collateral by an FXCCM to the Clearing House in respect of the FXCCM's variation margin obligations or by the Clearing House to an FXCCM in respect of the Clearing House's variation margin obligations shall be for the purposes of collateralisation and not settlement of obligations under the relevant contracts.

The NPV Payment (adjusted by PAA, as set out below), will be transferred each business day by or to each FXCCM in respect of all of its open ForexClear STM Contracts denominated in a given currency. Each NPV Payment in respect of a given ForexClear STM Contract will be calculated in, and must be paid in the ForexClear Margin or Settlement Currency applicable to that ForexClear STM Contract.

With respect to each ForexClear Contract, the variation margin requirement or NPV Payment (as applicable) is calculated every business day from (and including) the Registration Time to (and including) the EOD on the business day immediately preceding the Settlement Date.

For the avoidance of doubt, "variation margin" and "NPV Payment" as used herein shall include variation margin and NPV Payments in respect of both the

and premium owed under a ForexClear Deliverable Contract and all other obligations under the terms of that ForexClear Deliverable Contract.

Any NPV Payment made by an FXCCM to the Clearing House under a ForexClear STM Contract, or by the Clearing House to an FXCCM under a ForexClear STM Contract, shall be for the purpose of settlement of the applicable party's obligation to pay the required NPV Payment pursuant to the terms of that ForexClear STM Contract and not for the purpose of collateralising any obligations of either party under that ForexClear STM Contract.

- 1.5.3 *Reporting Breakdown*: ForexClear margin reports show the portfolio of open ForexClear Non-Deliverable Contracts of each FXCCM and of each FXD by Currency Pairs and in the Settlement Currency (i.e., USD). ForexClear margin reports also show the portfolio of open ForexClear Deliverable of each FXCCM and of each FXD by ForexClear Currency Pair.
- 1.5.4 *Price Alignment Interest ("PAI")*: The effect of daily transfers of cash Collateral in respect of variation margin on ForexClear CTM Contracts results in the need for PAI. Without this adjustment, the pricing of ForexClear CTM Contracts would differ from identical uncleared trades, as cash earned from favourable daily price moves would be priced into the product.
- (a) *PAI Calculation Methodology*: PAI is calculated at EOD on each business day from (and including) the first business day after the Trade Date to (and including) the business day immediately preceding the Settlement Date, and the currency in which the PAI payment is denominated for a given ForexClear CTM Contract shall be the ForexClear Margin or Settlement Currency of that ForexClear CTM Contract.

In this Section 1.5.4 (*Price Alignment Interest*), "T" means any given business day; "T-1" means the business day immediately preceding T; "T+1" means the business day immediately following T; and "MTM" means the total value (expressed in the relevant currency) of an FXCCM's portfolio of open ForexClear CTM Contracts, after valuation in accordance with Section 1.5.2 (*Variation Margin and NPV Payments*), at time on any business day, which time is as determined by the Clearing House. The Clearing House calculates PAI in USD once a day at EOD.

- (i) Principles:
- (A) MTM is calculated at EOD on T-1.
 - (B) Change in MTM (net variation margin obligations in respect of an FXCCM's portfolio of open ForexClear CTM Contracts) is paid/ received on the morning of T.
 - (C) PAI Rate for T to be applied is known at EOD T.

- (D) PAI is calculated on the night of T, for MTM of T-1 for ForexClear CTM Contracts up to the business day before their Settlement Date.
- (E) PAI is paid / received on morning of T+1 via PPS.
- (ii) Components:
 - (A) PAI Rate (annualised interest applied to an FXCCM's MTM).
 - (B) MTM.
 - (C) Accrual Factor (factor used to convert the PAI Rate from an annual rate to a daily rate, on a basis of a year of 360 days).
- (iii) So:
 - (A) $PAI T = PAI T \text{ Rate} \times MTM T-1 \times \text{Accrual Factor}$.

The Clearing House uses the PAI Rate from the relevant EOD overnight index swap curves, which is sourced from the Clearing House.

- (b) *Variation Margin/PAI Adjustment*: With respect to each FXCCM, the Clearing House makes the following adjustment to the EOD variation margin:
 - (i) if, with respect to its portfolio of open ForexClear CTM Contracts, such FXCCM has (to but excluding the relevant EOD) paid an amount of Collateral in respect of variation margin greater than the amount of Collateral in respect of variation margin it has received, such FXCCM will receive PAI; and
 - (ii) if, with respect to its portfolio of open ForexClear CTM Contracts, such FXCCM has (to but excluding the relevant EOD) received an amount of Collateral in respect of variation margin greater than the amount of Collateral in respect of variation margin it has provided, such FXCCM will pay PAI.

1.5.5 *Price Alignment Amount ("PAA")*: The payment of NPV Payments by the applicable party on a daily basis would, without adjustment, distort the pricing for certain ForexClear STM Contracts cleared through the Clearing House. In order to minimise the impact of such NPV Payments, the Clearing House will, for an FXCCM, either (i) charge a Price Alignment Amount if that FXCCM has, on a cumulative net basis, received NPV Payments from the Clearing House, or (ii) pay a Price Alignment Amount if that FXCCM has, on a cumulative net basis, paid NPV Payments to the Clearing House. In a negative interest rate environment where the applicable Price Alignment Amount is negative, the Clearing House will, for an FXCCM either (i) pay a Price

Alignment Amount if that FXCCM has, on a cumulative net basis, received NPV Payments from the Clearing House, or (ii) charge a Price Alignment Amount if that FXCCM has, on a cumulative net basis, paid NPV Payments to the Clearing House.

- (a) *PAA Calculation Methodology*: PAA is calculated at EOD on each business day from (and including) the first business day after the Trade Date to (and including) the business day immediately preceding the Settlement Date, and the currency in which the PAA payment is denominated for a given ForexClear STM Contract shall be the ForexClear Margin or Settlement Currency of that ForexClear STM Contract.

In this Section 1.5.5 (*Price Alignment Amount*), "T" means any given business day; "T-1" means the business day immediately preceding T; "T+1" means the business day immediately following T; and "MTM" means the total value (expressed in the relevant currency) of an FXCCM's portfolio of open ForexClear STM Contracts, after valuation in accordance with Section 1.5.2 (*Variation Margin and NPV Payments*), at the time on any business day, which time is as determined by the Clearing House. The Clearing House calculates PAA once a day at EOD.

- (i) Principles:
- (A) MTM is calculated at EOD on T-1.
 - (B) Change in MTM (net NPV Payment obligations in respect of an FXCCM's portfolio of open ForexClear STM Contracts) is paid/ received on the morning of T.
 - (C) PAA Rate for T to be applied is known at EOD T.
 - (D) PAA is calculated on the night of T, for MTM of T-1 for ForexClear Contracts up to the business day before their Settlement Date.
 - (E) PAA is paid / received on morning of T+1 via PPS.
- (ii) Components:
- (A) PAA Rate (annualised interest applied to an FXCCM's MTM).
 - (B) MTM.
 - (C) Accrual Factor (factor used to convert the PAA Rate from an annual rate to a daily rate, on a basis of a year of 360 days).
- (iii) So:

$$(A) \quad PAA T = PAAT \text{ Rate} \times MTMT-1 \times \text{Accrual Factor.}$$

The Clearing House uses the PAA Rate from the relevant EOD overnight index swap curves, which is sourced from the Clearing House.

1.5.6 *Initial Margin:* The Clearing House will require FXCCMs to transfer Collateral to the Clearing House in respect of their initial margin obligations. Each FXCCM's initial margin obligation will be calculated on an aggregate basis across its ForexClear Contracts within the ForexClear Non-Deliverable Service and ForexClear Deliverable Service.

- (a) *Calculation of Initial Margin:* Separate initial margin calculations are performed for an FXCCM's Proprietary Account, each Client Account (other than an Indirect Gross Account and an Omnibus Gross Segregated Account), each Indirect Gross Sub-Account within an Indirect Gross Account and each Omnibus Gross Segregated Sub-Account within an Omnibus Gross Segregated Account. No offset between the Proprietary Accounts and the Client Accounts is allowed (except pursuant to Rule 8(d) of the Default Rules or any Insufficient Resources Determination Rule) and no offset between any Client Accounts is allowed (except pursuant to Rule 15(a)(ii) of the Default Rules, a Cross-ISA Client Excess Deduction or any Insufficient Resources Determination Rule).

The initial margin obligation is calculated on a real-time (or near real-time) basis throughout each day. With respect to each FXCCM, it is calculated for the portfolio of open ForexClear Contracts and ForexClear Transactions using ForexClear's Portfolio Analysis and Risk ("**FxPAR**") margining model. FxPAR is based on a modified historical simulation expected shortfall methodology. All open ForexClear Contracts and ForexClear Transactions in each Currency Pair are re-valued under a series of FX rate and yield curve scenarios to estimate the potential portfolio profit and loss and therefore the initial margin requirement.

The adequacy of the initial margin calculation is reviewed daily. ForexClear Clearing Members will usually be notified by the Clearing House of alterations to margin model parameters no later than the day before calls are made based on the new parameters. Further details of this method are available upon request from the ForexClear Risk team.

FxPAR uses the market data submitted by FXCCMs pursuant to paragraph 1.5.1(a) (*Product Valuation*).

Initial Margin Add-ons: Credit risk, liquidity risk and sovereign risk margin add-ons are measured and applied to FXCCMs as part of the initial margin requirement calculation.

- (b) *Credit Risk Margin ("**CRiM**"):* CRiM reflects the additional risk related to the FXCCM's credit quality. The CRiM calculation

considers the FXCCM's credit worthiness, initial margin obligation level and/or stress testing exposures in accordance with LCH Credit Risk Policy.

- (c) *Liquidity Risk Margin ("LRM")*: LRM reflects the additional risk due to the FXCCM having concentrated risk exposures above set thresholds in a particular Currency Pair or tenor of ForexClear Contracts. The LRM requirement is calculated in accordance with parameters set by the ForexClear Default Management Group (the "FXDMG").

The Clearing House undertakes periodic liquidity surveys for the purpose of calculating LRM requirements. FXCCMs are required to respond to the Clearing House's reasonable request for data as part of such liquidity surveys.

- (d) *Sovereign Risk Margin ("SRM")*: SRM reflects the additional risk related to a potential country default or a change in a country's currency regime, including risk relating to a country's external debt or level of foreign exchange reserves, which would impact ForexClear Contracts transacted in certain Reference Currencies. The SRM calculation considers the probability of sovereign default occurring and the depreciation or appreciation risk of the Reference Currencies.

- (e) *Settlement Management Margin ("SMM")*: SMM reflects the additional risk associated with a potential settlement failure. The SMM calculation considers the FXCCM's future settlement obligations in each of the relevant currencies and the potential cost of utilising and replenishing liquidity provisions, where required, to fulfil those settlement obligations. The SMM is calculated in respect of ForexClear Deliverable Contracts only.

The Clearing House undertakes periodic surveys for the purpose of calculating SMM requirements. FXCCMs are required to respond to the Clearing House's reasonable request for data as part of such surveys.

- (f) *Default Fund Additional Margin*: The Clearing House may from time to time require an FXCCM to transfer Collateral to the Clearing House to meet the default fund additional margin requirement as determined and notified by the Clearing House to such FXCCM ("DFAM"). The methodology by which the Clearing House determines DFAM is available within the LCH portal, which is on the Clearing House website. The Clearing House will record any Collateral an FXCCM has provided to meet its DFAM obligation to the FXCCM's Proprietary Account.

- (g) *Additional Margin*: The Clearing House may require an FXCCM to transfer additional Collateral to the Clearing House (in addition to amounts of Collateral already transferred to the Clearing House in respect of any initial margin and variation margin obligations) as

security for the performance by an FXCCM of its obligations to the Clearing House in respect of ForexClear Contracts to which such FXCCM is a party in accordance with Regulation 20 (*Margin and Collateral*). This may be required from time to time where, in the opinion of the Clearing House, the risk inherent in ForexClear Contracts to which such FXCCM is a party not adequately covered by the Collateral transferred in respect of the initial margin or any variation margin obligations. This may cover instances where stress testing losses under various scenarios provided in the ForexClear Default Rules have increased.

- 1.5.7 *Initial Margin Management Events Service ("IMMES")*: IMMES aims to find risk and initial margin reducing ForexClear Contracts amongst participating FXCCMs. IMMES can be run on all Currency Pairs that are cleared through the ForexClear Service, although the primary focus will be on those Currency Pairs that contribute to the largest Collateral requirement.

FXCCMs who wish to obtain further information about, or to participate in, IMMES should contact ForexClear Risk on 0207 426 7527. To be eligible to participate in IMMES, an FXCCM must enter into an IMMES agreement with the Clearing House (the "**IMMES Agreement**").

1.6 General Margining Process

A "**Margin and Settlement Run**" is the process by which the Clearing House calculates an FXCCM's initial margin requirement (if any) and, during an EOD Margin and Settlement Run (i) in respect of each ForexClear CTM Contract, its variation margin requirement and PAI adjustment (if required) or (ii) in respect of each ForexClear STM Contract, its NPV Payment and PAA adjustment (if required) (together the "**Margin or Settlement Requirements**"), and in the case of (i) only, applies that FXCCM's Collateral to satisfy the Margin Requirements for that FXCCM in respect of the ForexClear Contracts within that FXCCM's portfolio.

- 1.6.1 *Types of Margin and Settlement Runs*: There are three types of Margin and Settlement Run:

- (a) *ITD/Ad Hoc - Day Margin and Settlement Run*
- (i) ITD/Ad-hoc London daytime Margin and Settlement Runs are initiated as and when dictated by the schedule published by the Clearing House and notified to FXCCMs from time to time (the "**Schedule**") or as necessary, and are performed in the time period during which a PPS call can be made (the "**ITD/Ad-hoc Day Margin and Settlement Run**"), which PPS time period is available from the Clearing House on request.
 - (ii) ITD/Ad-hoc Day Margin and Settlement Runs are calls in respect of the initial margin obligation only. The variation margin obligation, NPV Payment obligation, PAI and PAA are not included in ITD/Ad-hoc Day Margin and Settlement Runs.

- (b) *EOD Margin and Settlement Run*
 - (i) The EOD Margin and Settlement Run is the final Margin and Settlement Run that completes by 24:00 local London time on that business day (the "**EOD Margin and Settlement Run**").
 - (ii) EOD Margin and Settlement Runs are calls in respect of initial margin as well as (i) in the case of ForexClear CTM Contracts, variation margin obligations and PAI; and (ii) in the case of ForexClear STM Contracts, NPV Payment obligations and PAA.
- (c) *ITD / Ad Hoc - Night Margin Run*
 - (i) ITD/Ad-hoc London overnight Margin and Settlement Runs are initiated as and when dictated by the Schedule or as necessary, and are performed in the time period during which a PPS call cannot be made (the "**ITD/Ad-hoc Night Margin Run**").
 - (ii) ITD/Ad-hoc Night Margin Runs are calls in respect of the initial margin obligation only. The variation margin obligation, NPV Payment obligation, PAI and PAA are not included in ITD/Ad-hoc Night Margin Runs.

1.6.2 *Margin and Settlement Run Process*

- (a) Margin and Settlement Runs cover all registered ForexClear Contracts with the status "**NOVATED**".
- (b) Margin and Settlement Runs will be carried out for each ForexClear Contract and ForexClear Transaction (as the case maybe) until (and including) the later of:
 - (i) EOD Margin and Settlement Run on the Settlement Date; or
 - (ii) EOD Margin and Settlement Run after the Settlement Rate is published.
- (c) During every Margin and Settlement Run the Clearing House calculates the Collateral required in respect of the initial margin obligations and (i) in the case of an FXCCM who is party to ForexClear CTM Contracts, the Collateral required in respect of the variation margin obligations and PAI required to cover that FXCCM's relevant open ForexClear CTM Contracts; or (ii) in the case of an FXCCM who is party to ForexClear STM Contracts, the NPV Payments and the PAA required in respect of that FXCCM's relevant open ForexClear STM Contracts (each a "**Liability**" and together the "**Liabilities**"). For these purposes, liabilities in respect of the open ForexClear Contracts and ForexClear Transactions registered in an FXCCM's Proprietary Account, each of the FXCCM's Client Accounts (other than Indirect Gross Accounts and Omnibus Gross Segregated Accounts), each Indirect Gross Sub-Account within an

Indirect Gross Account of such FXCCM and each Omnibus Gross Segregated Sub-Account within an Omnibus Gross Segregated Account of such FXCCM will be calculated separately.

- (d) Each FXCCM's Liability:
- (i) in respect of the open ForexClear Contracts registered in an FXCCM's Proprietary Account, is offset against that FXCCM's non-cash collateral account (being a sub-account of the FXCCM's "H" collateral account) (for Collateral in respect of initial margin only) or funds in that FXCCM's "H" house cash account (being a sub-account of the FXCCM's "H" collateral account) (for variation margin/PAI/initial margin); and
 - (ii) in respect of the open ForexClear Contracts registered in a particular FXCCM's Client Account, is offset against the relevant non-cash collateral account (being a sub-account of the FXCCM's Client Account) (for Collateral in respect of initial margin only) or funds in the relevant "C" client cash account (being a sub-account of the FXCCM's Client Account) (for variation margin, NPV Payments, PAI, PAA and initial margin).
- (e) FXCCMs are informed via email of their Liabilities as a percentage of their current total Collateral (such percentage being shown as a percentage of the aggregate Collateral in their cash and non-cash collateral account(s)) and are directed to the ForexClear Service portal (being a secure website made available to FXCCMs) (the "**ForexClear Service Portal**") which provides reports (at the times specified in Section 1.7.1 (*Margin and NPV Payment Liability Reports*)) informing FXCCMs of their (i) total Liabilities under the ForexClear Service; (ii) current total Collateral posted with the Clearing House for the ForexClear Service; and (iii) Liabilities as a percentage of their current total Collateral (such percentage being shown as a percentage of the aggregate Collateral in their cash and non-cash collateral account(s)).
- (f) If following a Margin and Settlement Run an FXCCM is required to provide additional Collateral, this is also indicated by email and via the ForexClear Service Portal. In the case of ITD/Ad-hoc Margin and Settlement Runs, where an FXCCM's Liabilities exceed its available Collateral, then the Clearing House will issue a margin call for the amount of the shortfall plus 50% of the FXCCM's MER Buffer.

1.7 **ForexClear Reporting**

For purposes of reporting obligations to the CFTC, FXCCMs may only report details of ForexClear Contracts, including terminations and modifications to a ForexClear Contract, to an Approved LCH SDR. A list of Approved LCH SDRs is available on the Clearing House's website. In the event an FXCCM wishes to report details of ForexClear Contracts to a swap data repository that is not an Approved LCH SDR, the FXCCM must provide the Clearing House with reasonable prior notice of the date on which it wishes to report to such swap data repository.

FXCCMs must inform their respective Clearing Clients of the list of Approved LCH SDRs, and inform such Clearing Clients that the Clearing House is only able to report details of a ForexClear Contract to an Approved LCH SDR.

In accordance with CFTC Part 45 requirements (where the FXCCM has a reporting obligation), FXCCMs must provide the Clearing House (i) the USI of the original swap that is submitted to the Clearing House for registration and (ii) the LEI of the original swap SDR (i.e., "OriginalSwapRepository" or equivalent field) to enable the Clearing House to accurately report the termination of the original swap to the appropriate SDR.

The Clearing House produces a suite of treasury reports for members across each of the Clearing House services. Some of these reports are cross-service reports and others are specific to the ForexClear Service, thus an FXCCM will receive reports in respect of ForexClear and may also receive cross-service reports where it is a member of another service.

In respect of the ForexClear Service, on each business day the Clearing House will provide two sets of reports to FXCCMs: (1) Banking Reports; and (2) reports direct from the ForexClear Service (together "**ForexClear Reporting**"). These Procedures reference the ForexClear Service specific reports. Each day's report will remain available for download by FXCCMs from the ForexClear Service Portal for five days.

The Clearing House (acting, where applicable, through the entity to which it has elected to delegate the relevant reporting obligation) shall report to a trade repository or similar body the details of a ForexClear Contract and any modification or termination of such contract without duplication and no later than the working day following the conclusion, modification or termination of such contract, in line with the requirements of Applicable Law.

- 1.7.1 *Margin and NPV Payment Liability Reports:* Reports detailing Liabilities are provided to FXCCMs following every scheduled Margin and Settlement Run in accordance with Section 1.6.2 (*Margin and Settlement Run Process*) and where additional Collateral has been called by the Clearing House. Additionally, a report, including sensitivities, is provided at ForexClear Contracts level at 22.00 local London time. If the EOD Margin and Settlement Run has not completed by 22:00 local London time on a particular business day, the report generated at EOD will reflect that certain Liabilities of FXCCMs are not discharged at the relevant time. A report will also be provided detailing an FXCCM's Collateral utilisation level. If an FXCCM's Liabilities exceed its total available Collateral, ForexClear will alert the FXCCM.
- 1.7.2 *Market Data Reports:* Reports detailing Market Data are provided to FXCCMs following every scheduled Margin and Settlement Run. They include reports of Market Data and Settlement Rate used in the valuation of ForexClear Contracts and reports of Market Data shifts for each historic scenario used in the initial margin requirement calculations.
- 1.7.3 *Trade Reports:* Reports are provided that enable FXCCMs to monitor their firms' trading events and positions in respect of ForexClear. Reports on open

ForexClear Contracts and on cancelled ForexClear Transactions and ForexClear Contracts are generated at EOD and reports on transferred ForexClear Contracts are made on an ad hoc basis.

- 1.7.4 *Trade Fixing and Settlement Reports:* Reports are published on each business day detailing the ForexClear Contracts to which the Settlement Rate has been applied on that business day (the "**FX Transaction Fixings**" report), ForexClear Contracts that have been settled during that current business day (the "**Settlements Today**" report) and ForexClear Contracts that will settle the next business day (the "**FX Transactions' Fixed with Settlement Tomorrow**" report).
- 1.7.5 *Fees Reports:* Reports on trading volumes on a daily and monthly basis are provided to FXCCMs. Monthly reports are provided on the last business day of each month. They include the full trading volumes on which the monthly transaction fees will be charged to those FXCCMs choosing to have tariffs levied per transaction.
- 1.7.6 *Banking Reports:* Reports relating to an FXCCM's Collateral are available from the Clearing House portal at <https://clearingservices.lch.com/portal/login>
- 1.7.7 *Real-time Reporting:* A near real-time view of member liabilities, collateral pledged, collateral and credit utilisation will be available from the ForexClear Service Portal (referred to in paragraph (e) of Section 1.6.2 (*Margin and Settlement Run Process*)).
- 1.7.8 *Settlement Limit Reports:* As further described in Section 1.19 (*Settlement Limits for ForexClear Deliverable Contracts*).

1.8 Treasury Operations & Collateral Management

- 1.8.1 *Cover Distribution:* The Clearing House nets each FXCCM's Liabilities (i.e. margins and multipliers) and then the total of cash Collateral and non-cash Collateral are applied to offset those net Liabilities. This process is known as collateral distribution ("**Collateral Distribution**"). FXCCMs can choose whether cash or non-cash Collateral should be applied first. At the end of this process, if an FXCCM has a shortfall, a PPS (as defined in Section 1.8.2 (*Protected Payment System*) below) call for additional Collateral is made. Conversely, any excess cash remaining after the final overnight Margin and Settlement Run can, if requested before 09:30 local London time, be repaid to the FXCCM.

(a) *Cover Distribution Notification*

- (i) FXCCMs are informed via email of their: Liabilities as a percentage of their current total Collateral (such percentage being shown as a percentage of the aggregate Collateral in their cash and non-cash collateral account(s)) and are directed to the ForexClear Service Portal which provides reports (at the times specified in Section 1.7.1 (*Margin and Settlement Liability Reports*)) informing FXCCMs of their (i) total Liabilities under

the ForexClear Service; (ii) current total Collateral posted with the Clearing House for ForexClear; and (iii) Liabilities as a percentage of their current total Collateral (such percentage being shown as a percentage of the aggregate Collateral in their cash and non-cash collateral account(s)).

- (ii) The reports accessed via the ForexClear Service Portal will enable FXCCMs to log in and examine the underlying data.

- 1.8.2 *Protected Payment System:* The Clearing House operates the protected payments system ("**PPS**") for transferring funds to and from its FXCCMs to cover their obligations to transfer Margin, NPV Payments, PAA and PAI. This is similar to a direct debit arrangement where the PPS bank confirms that any Clearing House-specified call is met.

FXCCMs are obliged to hold an account with a London PPS bank in USD, as well as a USD account with a PPS bank in the USA.

The list of PPS banks operating in the UK and US is available from the Clearing House on request.

- 1.8.3 *Acceptable Forms of Collateral Cover:* A detailed description of acceptable collateral and applicable processes is available from the Clearing House on request.

- 1.8.4 *Interest and Accommodation:* Interest is payable to or by FXCCMs on cash Collateral held by the Clearing House. The rate to be applied will be either LDR – London Deposit Rate, or CDR – Client Deposit Rate, as further described in Section 1.6.3 of Section 3 of the Procedures and as prescribed by the Clearing House from time to time by publication on its website.

A utilisation fee, known as an accommodation charge, is charged on securities lodged at the Clearing House to cover liabilities. For an overview of interest and accommodation charges, please contact the Clearing House's Treasury Operations.

1.9 Payment of Stamp Tax

Each FXCCM shall pay any Stamp Tax or duty levied or imposed upon it or in respect of its execution or performance of the Clearing Membership Agreement, the Regulations and the Procedures (including any registration of a ForexClear Contract) by a jurisdiction in which it is incorporated, organised, managed and controlled, or considered to have its seat, or in which a branch or office through which it is acting is located ("**Stamp Tax Jurisdiction**") or by any other jurisdiction and shall indemnify the Clearing House against any Stamp Tax or duty levied or imposed upon the Clearing House or in respect of the Clearing House's execution or performance of the Clearing Membership Agreement, the Regulations and the Procedures (including any registration of a ForexClear Contract) by any such Stamp Tax Jurisdiction or by any other jurisdiction.

1.10 Default Management

- 1.10.1 *Portfolio Splitting*: As part of the ForexClear Default Management Process, the Clearing House may divide an Auction Portfolio into two or more individual Auction Portfolios. In circumstances where such portfolio splitting is adopted, the Clearing House will, in consultation with the ForexClear Default Management Group, seek to create:
- (a) one or more individual Auction Portfolios which have comparatively greater levels of risk associated with them, thereby isolating such Auction Portfolios from those which are more risk neutral; and
 - (b) one or more individual Auction Portfolios which are more risk neutral.
- 1.10.2 *Acceptance of Bids*: In deciding whether to accept a bid, the Clearing House will generally accept the best bid in respect of any individual Auction. However, the Clearing House is entitled to reject a bid in the event that it considers, in its reasonable discretion that accepting the bid may:
- (a) cause the Clearing House to be subject to Applicable Law by virtue of its being a Recognised Clearing House or a Derivatives Clearing Organization;
 - (b) cause the Clearing House or its membership any reputational harm;
 - (c) cause legal action or proceedings to be taken against the Clearing House; or
 - (d) endanger the Clearing House, any of its clearing members or the financial markets in which the Clearing House operates.

Where the Clearing House receives more than one bid from the same ForexClear Clearing Member and in respect of the same Auction the Clearing House is entitled to accept the last bid received by it in respect of that Auction. Where the Clearing House does not receive a bid that was made by a ForexClear Clearing Member for operational, technological or other similar reasons and as a result of which a bid does not reach the Clearing House, the Clearing House will be unable to accept a bid and shall not be liable for any failure to accept such bid.

- 1.10.3 *Affiliate Bidding*: ForexClear Clearing Members are entitled to bid for an Auction Portfolio on behalf of an affiliated ForexClear Clearing Member. Where a ForexClear Clearing Member makes a bid and that ForexClear Clearing Member has an affiliated ForexClear Clearing Member that does not make a bid, the Clearing House shall not (unless instructed otherwise in accordance with the paragraph below) assume that the bidding ForexClear Clearing Member has made the relevant bid on behalf of a non-bidding, affiliated ForexClear Clearing Member.

A ForexClear Clearing Member may notify the Clearing House, in advance of an Auction, that it wishes to bid on behalf of an affiliated ForexClear Clearing Member. Where it wishes to do so, the ForexClear Clearing Member should

contact the Clearing House's Client Services Team (membership@lch.com; +44 (0)207 426 7949).

- 1.10.4 *ForexClear Contributions*: ForexClear Contributions will be called via PPS on the fourth business day of each month or otherwise pursuant to a determination of a ForexClear Contribution under the Default Rules.

Excess ForexClear Contribution amounts due to ForexClear Clearing Members following a ForexClear Determination Date will (subject to the Default Rules) be repaid to ForexClear Clearing Members' PPS accounts on the fourth business day immediately following such ForexClear Determination Date.

If a Resignation Effective Date has occurred in respect of a Resigning Member and the ForexClear Service pursuant to Rule F3(e) of the ForexClear Default Fund Supplement, then the Clearing House will repay the ForexClear Contribution that it holds for such Clearing Member (to the extent it has not been applied under the Default Rules) to the Clearing Member's relevant PPS account on such Resignation Effective Date.

Interest on ForexClear Contributions will be paid to ForexClear Clearing Members' PPS accounts on the fifth business day of each month, in respect of the relevant "**interest accrual period**" occurring immediately prior to each such business day. Interest is calculated in respect of each "**interest accrual period**", which commences on (and includes) the fourth business day of each month (each, a "**ForexClear Reset Day**") and ends on (and includes) the calendar day immediately before the next ForexClear Reset Day. Notwithstanding the preceding paragraphs, if the rate of interest payable on ForexClear Contributions is negative, interest shall be payable by ForexClear Clearing Members to the Clearing House.

- 1.10.5 *Quantifying ForexClear Contributions*: For the purposes of calculating the ForexClear Margin Weight under Rule F2(d) of the ForexClear Default Fund Supplement, the uncovered stress loss of an FXCCM shall be determined by reference to the ForexClear Contracts entered into (1) on behalf of the relevant FXCCM and (2) with respect to the Clearing Clients and FCM Clients of such FXCCM.

- 1.10.6 *Outsourcing*: Pursuant to Section 1 (*Clearing Member and Dealer Status*) of the Procedures, an FXCCM may appoint a third party to fulfil one or both of the Clearing House's Membership requirements to: (i) participate in a ForexClear "**fire drill**" run by the Clearing House; and (ii) participate in the ForexClear Default Management Process operated by the Clearing House. Where an FXCCM chooses to outsource one or both of these functions it must appoint and maintain at least three LCH Approved Outsourcing Agents.

The following entities are eligible for appointment as an LCH Approved Outsourcing Agent:

- A ForexClear Clearing Member

- any other entity that the Clearing House deems appropriate in its sole discretion.

Where an FXCCM wishes to appoint a third party to carry out any obligation on its behalf, it should contact the Clearing House's Membership Department with the:

- (a) details of the third party entity that the FXCCM wishes to appoint as an LCH Approved Outsourcing Agent. Such information should include details of the applicant's regulatory status;
- (b) evidence of the existence of a legally binding agreement between the FXCCM Clearing Member and the third party; and
- (c) such other information that the Clearing House reasonably considers necessary for the purposes of determining whether an entity should be approved as an LCH Approved Outsourcing Agent.

Following the receipt of all of the information above, the Clearing House shall determine in its sole discretion, whether to approve the third party as an LCH Approved Outsourcing Agent. In making its determination, the Clearing House shall consider the third party's ability to demonstrate that it has the necessary operational infrastructure and appropriate asset class expertise.

Where an FXCCM successfully appoints an LCH Approved Outsourcing Agent, that FXCCM may be subject to increased margin requirements to cater for the additional time required to invoke an outsourcing process in the event of a default

FXCCMs should note that LCH Approved Outsourcing Agents may be subject to a more rigorous driving test and fire-drill than FXCCM (i.e. required to demonstrate an ability to price and bid a greater number of trades at tighter pricing tolerances and within more onerous timeframes). In addition, the Clearing House may require an FXCCM, that has appointed an LCH Approved Outsourcing Agent, to participate in an ad-hoc fire-drill or driving test with such notice as the Clearing House deems appropriate in its sole discretion.

The Clearing House reserves the right to revoke an entity's status as an LCH Approved Outsourcing Agent, in its sole discretion and without notice. In the event of such a revocation, the relevant FXCCM shall be required to assume those responsibilities that were previously outsourced. Such revocation may occur where the Clearing House considers that there is an insufficient number of third party entities that are providing outsourced default management services (usually a minimum of five providers at any one time).

Other than in exceptional circumstances and in the Clearing House's sole discretion, an LCH Approved Outsourcing Agent may not act on behalf of more than three clearing members.

The appointment of an LCH Approved Outsourcing Agent does not absolve an FXCCM of its obligations under the ForexClear DMP (including its obligation to participate in an Auction) and an LCH Approved Outsourcing Agent's participation in the ForexClear DMP on behalf of an FXCCM, in the event of a default, shall not extend beyond the provision of operational and other ancillary support to that FXCCM.

- 1.10.7 *ForexClear DMG*: The necessary involvement of FXCCMs and the ForexClear DMG in the ForexClear DMP entails the assessment and dissemination of information that could give rise to conflicts of interest. To ensure that such potential conflicts are demonstrably contained, Schedule 1 (*Confidentiality, non-disclosure and participation in the ForexClear Default Management Group*) establishes binding obligations of confidentiality, anonymity and the extent of dissemination of information on FXCCMs (and their executives or directors who participate from time to time in the ForexClear DMG) and on the Clearing House.

Each FXCCM who makes available a representative to serve on the ForexClear DMG agrees, and shall procure that, to the extent applicable, its representatives agree to be bound by and to ensure that it and any of its executives or directors serving on the ForexClear DMG complies with Schedule 1 (*Confidentiality, non-disclosure and participation in the ForexClear Default Management Group*) covering confidentiality, non-disclosure and other terms.

1.10.8 *Default Management Accounts*

- (a) For the purposes of this Section 1.10.8, the following definitions will apply:

“**Affected Non-Porting Client Account**” means, in respect of an Initial DMA or a Final DMA (as applicable) and the ForexClear Contracts that (at any time) comprise such Initial DMA or Final DMA (as applicable), each Non-Porting Client Account from which any such ForexClear Contract originated.

“**Auction**” has the meaning assigned to it in the ForexClear DMP Annex.

“**Auction Date**” means, in respect of an Auction Portfolio, the business day on which such Auction Portfolio is sold.

“**Auction Result**” means, in respect of an Auction Portfolio, the amount equal to:

- (i) the gains or losses of the Clearing House arising from the sale of such Auction Portfolio, where a gain is a positive amount and a loss is a negative amount;
- (ii) plus the Auction Portfolio NPV Gain for such Auction Portfolio (if any);

- (iii) minus the Auction Portfolio NPV Loss for such Auction Portfolio (if any).

“**Auction Portfolio**” means a ForexClear Auction Portfolio.

“**Auction Portfolio Calculation Period**” means, in respect of an Auction Portfolio and its Auction Date, the period commencing immediately after the Daily Calculation Period for the business day preceding such Auction Date and ending at the point at which such Auction Portfolio is sold.

“**Auction Portfolio NPV Change**” means, in respect of an Auction Portfolio and its Auction Portfolio Calculation Period, the amount (if any) by which the aggregate net present value of the ForexClear Contracts within such Auction Portfolio has changed during such Auction Portfolio Calculation Period, and

- (i) where such change is in favour of the Defaulter, is the “**Auction Portfolio NPV Gain**”; and
- (ii) where such change is in favour of the Clearing House, is the “**Auction Portfolio NPV Loss**”.

“**Daily Amount**” means, in respect of a DMA and a Daily Calculation Period, the Daily Gain or Daily Loss for such DMA and Daily Calculation Period.

“**Daily Calculation Period**” means, in respect of a business day, the period, in respect of which the Clearing House determines the end of day margin and settlement payments for ForexClear Contracts for such business day.

“**Daily Gain**” means, in respect of a DMA and a Daily Calculation Period, the amount (if any) by which the Daily NPV Gain exceeds the Daily Hedge Costs (in each case) for such DMA and Daily Calculation Period.

“**Daily Hedge Costs**” means, in respect of a DMA and a Daily Calculation Period, all costs incurred by the Clearing House in connection with hedging the exposure of one or more ForexClear Contracts within such DMA in accordance with the Risk Neutralisation process under Rule 2.2 of the ForexClear DMP Annex.

“**Daily Loss**” means, in respect of a DMA and a Daily Calculation Period, either: (i) where the DMA experiences a Daily NPV Loss in respect of such Daily Calculation Period, the aggregate of such Daily NPV Loss and the Daily Hedge Costs for such DMA and Daily Calculation Period; or (ii) where the DMA experiences a Daily NPV Gain in respect of such Daily Calculation Period, the amount by which the Daily Hedge Costs for such DMA and Daily Calculation Period exceed such Daily NPV Gain.

“**Daily NPV Change**” means, in respect of a DMA and a Daily Calculation Period, the amount (if any) by which the aggregate net present value of the Remaining Contracts within such DMA has changed during such Daily Calculation Period, and:

- (i) where such change is in favour of the Defaulter, is the “**Daily NPV Gain**”; and
- (ii) where such change is in favour of the Clearing House, is the “**Daily NPV Loss**”.

“**DMA**” means an Initial DMA or a Merged DMA, as applicable.

“**DMA Creation Date**” means, in respect of an Initial DMA, the business day on which such Initial DMA is established by the Clearing House.

“**DMA Merger Date**” means, in respect of a Merged DMA, the business day on which two or more DMAs are combined to form such Merged DMA.

“**Final DMA**” means, in respect of an Auction Portfolio that is auctioned and sold, the most recently established DMA from which such Auction Portfolio was formed.

“**ForexClear Auction Portfolio**” means an “Auction Portfolio” as defined in the ForexClear DMP Annex.

“**Initial DMA**” means a default management account established by the Clearing House, acting in its sole discretion, to which one or more Sets of Non-Porting Contracts are transferred (by book-entry) on the DMA Creation Date for such default management account.

“**Latest DMA**” means, in respect of a Daily Calculation Period, a DMA that exists at the end of such Daily Calculation Period, but which has not itself been combined with another DMA to form a separate Merged DMA.

“**Merged DMA**” means a default management account established by the Clearing House, acting in its sole discretion, which results from the combination of two or more DMAs.

“**Non-Porting Client Account**” means, in respect of a Defaulter, the Individual Segregated Account, Omnibus Gross Segregated Sub-Account, Indirect Net Account, Indirect Gross Sub-Account, Non-Identified Client Omnibus Net Segregated Account, Affiliated Client Omnibus Net Segregated Account, Identified Client Omnibus Net Segregated Account or FCM Client Sub-Account (as applicable) of such Defaulter, to which the ForexClear Contracts that the Clearing House has determined will not be ported in accordance with the Client Clearing Annex or the FCM Rulebook are, or were, registered at the point of the Default of the Defaulter.

“Pre-Default TMR” means, in respect of an Affected Non-Porting Client Account of a Defaulter, the TMR for such Affected Non-Porting Client Account as at time on the business day before the day of Default of such Defaulter, which time is as determined by the Clearing House.

“Pre-Default TMR Ratio” means

- (i) in respect of an Initial DMA and an Affected Non-Porting Client Account referable to it, the ratio that the Pre-Default TMR of such Affected Non-Porting Client Account bears to the aggregate Pre-Default TMR of all Affected Non-Porting Client Accounts referable to such Initial DMA; or
- (ii) in respect of a Final DMA and an Affected Non-Porting Client Account referable to it, the ratio that the Pre-Default TMR of such Affected Non-Porting Client Account bears to the aggregate Pre-Default TMR of all Affected Non-Porting Client Accounts referable to such Final DMA.

“Pre-Merger TMR” means, in respect of a DMA that was combined with one or more other DMA(s) to form a Merged DMA, the TMR for such DMA as at the time on the business day before the DMA Merger Date of such Merged DMA, which time is as determined by the Clearing House.

“Pre-Merger TMR Ratio” means, in respect of a DMA that was combined with one or more other DMA(s) to form a Merged DMA, the ratio that such DMA’s Pre-Merger TMR bears to the aggregate Pre-Merger TMR of all DMAs that were combined to form such Merged DMA.

“Prior Merged DMA” means, in respect of a Merged DMA, an existing Merged DMA that has been combined with one or more other DMA(s) to form such Merged DMA.

“Remaining Contracts” means, in respect of a DMA and a Daily Calculation Period, all of the ForexClear Contracts within such DMA during such Daily Calculation Period, excluding those ForexClear Contracts that the Clearing House has auctioned and sold at any point within such Daily Calculation Period.

“Set of Non-Porting Contracts” means, in respect of a Non-Porting Client Account, the ForexClear Contracts that are transferred by the Clearing House from such Non-Porting Client Account to an Initial DMA.

“TMR” means (i) in respect of an Affected Non-Porting Client Account, the total margin requirement as determined by the Clearing House for such Affected Non-Porting Client Account, or (ii) in respect of a DMA, the total margin requirement as determined by the Clearing House for such DMA, in each case, excluding variation margin.

(b) *Initial DMAs*

- (i) After a Default, the Clearing House may, in its sole discretion:
 - (A) determine that the ForexClear Contracts registered to a Non-Porting Client Account will not port in accordance with the Client Clearing Annex or the FCM Rulebook (as applicable); and
 - (B) transfer the resulting Set of Non-Porting Contracts in respect of such Non-Porting Client Account to an Initial DMA on the business day on which the Clearing House makes such determination.
- (ii) The Clearing House may in its sole discretion create more than one Initial DMA for the purposes of subparagraph (i)(B) above on the same business day.
- (iii) No Contracts other than ForexClear Contracts will be transferred into an Initial DMA.
- (iv) Any outstanding and owing, but unsettled, variation margin or settlement amounts in respect of ForexClear Contracts as at the end of the Daily Calculation Period for the business day prior to the transfer of such ForexClear Contracts in accordance with subparagraph (i) above shall be discharged by the Clearing House debiting or crediting (as applicable) the Non-Porting Client Account from which such ForexClear Contracts were transferred.

(c) *Merged DMAs*

- (i) On any business day following the creation of two or more Initial DMAs pursuant to paragraph (b) above, the Clearing House may create a Merged DMA by combining:
 - (A) multiple Initial DMAs;
 - (B) one or more Initial DMAs and one or more Prior Merged DMAs; or
 - (C) multiple Prior Merged DMAs.
- (ii) The Clearing House may in its sole discretion create more than one Merged DMA on the same business day.

(d) *Auctions*

- (i) The Clearing House shall conduct Auctions in respect of Auction Portfolios referable to DMAs in accordance with the provisions of the ForexClear DMP Annex.

- (ii) More than one Auction Portfolio may be referable to a single DMA, in which case:
 - (A) the Clearing House will conduct one or more Auctions of each Auction Portfolio referable to such DMA; and
 - (B) on and from the date of the first Auction in respect of the DMA, the Clearing House may no longer combine such DMA into a Merged DMA.
 - (iii) Following the sale of an Auction Portfolio, the ForexClear Contacts within such Auction Portfolio shall no longer form part of the DMA from which the Auction Portfolio was created.
- (e) *Attribution of Daily Amounts*
- (i) The Clearing House shall, following each Daily Calculation Period, determine the Daily Amount for each Latest DMA in respect of such Daily Calculation Period.
 - (ii) The Clearing House shall attribute the Daily Amount of a Latest DMA that is:
 - (A) an Initial DMA, to each Affected Non-Porting Client Account referable to such Initial DMA, pro rata according to the Pre-Default TMR Ratio of each such Affected Non-Porting Client Account; and
 - (B) a Merged DMA, to each DMA that was combined to form such Merged DMA, pro rata according to the Pre-Merger TMR Ratio of each such DMA (where the amount attributed to each such DMA is an “**Interim Amount**”).
 - (iii) If the Clearing House attributes an Interim Amount to a DMA under subparagraph (ii)(B) above, then it will further attribute such Interim Amount as follows:
 - (A) Where the DMA to which the Interim Amount was attributed is an Initial DMA, the Clearing House will further attribute such amount to each Affected Non-Porting Client Account referable to such Initial DMA, pro rata according to the Pre-Default TMR Ratio of each such Affected Non-Porting Client Account; and
 - (B) Where the DMA to which the Interim Amount was attributed is a Merged DMA, the Clearing House will further attribute such amount to each DMA that was combined to form such Merged DMA, pro rata according to the Pre-Merger TMR Ratio of each such DMA.

- (iv) If the Clearing House attributes an amount to a DMA under subparagraph (iii)(B) above, then it will further attribute such amount according to the method specified in subparagraph (iii) (treating such amount as an Interim Amount for the purposes of subparagraph (iii)) until all amounts are attributed to Non-Porting Client Accounts.

(f) *Attribution of Auction Results*

The Clearing House shall attribute the Auction Result, in respect of the sale of an Auction Portfolio, to each Affected Non-Porting Client Account referable to the Final DMA from which such Auction Portfolio was formed, pro rata according to the Pre-Default TMR Ratio of each such Affected Non-Porting Client Account.

(g) *Collateral*

The Clearing House shall hold the relevant Collateral in respect of each Non-Porting Client Account in its applicable Client Account until the process described in this Section 1.10.8 has been completed.

(h) *Calculations*

For the avoidance of doubt, (i) the calculation of Daily Amounts and Auction Results (and their constituent elements) is determined with reference to the actual or anticipated losses and/or costs of the Clearing House in accordance with this Section 1.10.8 and the Default Rules, and shall not be reduced with reference to any action taken in respect of a FXCCM by a resolution authority, including any write-down or conversion of liabilities of such FXCCM; and (ii) any amounts allocated in respect of a Daily Amount or Auction Result under this Section 1.10.8 shall not be affected by an action taken in respect of a FXCCM by a resolution authority, including any write-down or conversion of liabilities of such FXCCM.

1.11 Provision of Tax Forms

The Clearing House and each FXCCM shall provide to each FXCCM or the Clearing House, as relevant, (i) any forms or documents specified in the ForexClear Contract between the Clearing House and the FXCCM and (ii) any other form, document, statement or certification reasonably requested in writing by the FXCCM or the Clearing House in order to allow the FXCCM or the Clearing House to make a payment under the Rules of the Clearing House or any ForexClear Contract without deduction or withholding for or on account of any tax or with such deduction or withholding at a reduced rate unless the Clearing House or the FXCCM can no longer deliver such form, document, statement or certification solely as a result of a change in law (including double tax treaty) or interpretation thereof after the date of the ForexClear Contract between the Clearing House and the FXCCM. In the case of the Clearing House, the forms required pursuant to item (ii) above include an Internal Revenue Service Form W-8BEN. Additionally, the Clearing House will take such

further actions as necessary to ensure that payments made to it can be made without deduction or withholding for or on account of any Tax.

1.12 ForexClear Client Clearing

1.12.1 *ForexClear Clearing Client Clearing – Ancillary Documentation*

- (a) *Security Deed*: Unless specified otherwise by the Clearing House, a ForexClear Clearing Member must enter into a Security Deed in respect of its Clearing Clients in relation to amounts due to it from the Clearing House pursuant to the Client Clearing Annex. Further information in relation to such Security Deed is prescribed by the Clearing House from time to time and published on the Clearing House's website.
- (b) *Prescribed Language and End-User Notice*: Pursuant to the Clearing House's General Regulations, each ForexClear Clearing Member is required to ensure that it includes certain language in its agreement with its ForexClear Clearing Client (the "**Clearing House Prescribed Language**"). The Clearing House Prescribed Language is shown at Schedule 1 of Procedure 1.

ForexClear Clearing Clients' attention is drawn to the End-User Notice which is published on the Clearing House's website at www.lch.com/user/membership/ltd-membership/end-user-notice.

1.12.2 *Backup Clearing Members*

A ForexClear Clearing Client may, at any time, appoint one or more Backup Clearing Member(s) in respect of the ForexClear Service, for the purpose of porting ForexClear Contracts entered into by a FXCCM on its behalf and corresponding Account Balance(s), in accordance with the Client Clearing Annex.

A FXCCM agrees that the Clearing House is permitted, after the Default of such FXCCM, to disclose the Portfolio in respect of a Relevant Client Account and ForexClear Clearing Client of such FXCCM, to each Backup Clearing Member appointed by such ForexClear Clearing Client in respect of the ForexClear Service.

For the purposes of this Section 1.12.2:

- (a) "**Portfolio**" means, in respect of a Relevant Client Account and a ForexClear Clearing Client (i) the Contract(s) recorded to the Relevant Client Account and entered into between the Defaulting FXCCM and the Clearing House, in respect of such ForexClear Clearing Client, (ii) the Account Balance(s) recorded to the Relevant Client Account and attributable to such ForexClear Clearing Client, and (iii) such other related information as determined by the Clearing House in its sole discretion; and

- (b) “**Relevant Client Account**” means, in respect of a Defaulting FXCCM and a ForexClear Clearing Client, a Client Account (i) in the ForexClear Service and in the name of such Defaulting FXCCM, and (ii) attributable to such ForexClear Clearing Client (and, as applicable, one or more other ForexClear Clearing Client(s)).

1.13 Defaulting ForexClear Client Clearing

1.13.1 If at any time an early termination date (howsoever described) occurs in respect of one or more of the transactions between an FXCCM and a ForexClear Clearing Client (a “**Defaulting ForexClear Clearing Client**”) in respect of which such FXCCM (i) is a party to Related ForexClear Contracts, and (ii) at the time of such early termination date, is not a Defaulting FXCCM, that FXCCM may instruct the Clearing House to transfer:

- (a) the relevant Related ForexClear Contracts and/or New Contracts from its Client Account to its Proprietary Account or the Proprietary Account of another FXCCM or FCM Clearing Member; or
- (b) a ForexClear Contract from its Proprietary Account or the Proprietary Account of another FXCCM or FCM Clearing Member to its Client Account relating to the Defaulting ForexClear Clearing Client,

provided that the following conditions precedent are met (in addition to any generally applicable provisions of the Rulebook): neither the FXCCM nor any FXCCM or FCM Clearing Member to or from which the ForexClear Contracts are being transferred pursuant to this Section 1.13.1 is a Defaulter.

For the purposes of this Section 1.13.1:

- (a) a “**Related ForexClear Contract**” means, in respect of a transaction between a FXCCM and a Defaulting ForexClear Clearing Client which has been terminated on an early termination date, the open position represented by the ForexClear Contract entered into with the Clearing House by such FXCCM on equal and opposite terms to such transaction; and
- (b) a “**New Contract**” has the meaning specified in Section 1.13.2.

For the avoidance of doubt, if an early termination date occurs, the Clearing House will not require that the Defaulting ForexClear Clearing Client provide its consent to the requested transfer in order for the Clearing House to effect a transfer requested by the FXCCM pursuant to this Section 1.13.1.

A transfer pursuant to this Section 1.13.1 will be subject to receipt by the Clearing House of the following:

- (a) a copy of the notice from the relevant FXCCM to the relevant ForexClear Clearing Client or from the relevant ForexClear Clearing Client to the relevant FXCCM designating the relevant early termination date or, if such early termination date has occurred

automatically, evidence of the relevant event of default or termination event;

- (b) a copy of a notice served by the relevant FXCCM on the relevant ForexClear Clearing Client alerting that ForexClear Clearing Client of its intention to request a transfer of the relevant ForexClear Contracts pursuant to this Section 1.13; and
- (c) an indemnity from the relevant FXCCM in a form suitable to the Clearing House.

In connection with this Section 1.13.1, the Clearing House will usually arrange a transfer of Related ForexClear Contracts within 24 hours of receipt (to the extent applicable) of the documents listed in paragraphs (a) to (c) above.

1.13.2 Following the occurrence of an early termination date (howsoever described) in respect of one or more transaction(s) between a FXCCM and a Defaulting ForexClear Clearing Client in respect of which such FXCCM (i) is a party to Related ForexClear Contracts, and (ii) at the time of such early termination date is not a Defaulting FXCCM, such FXCCM may present a ForexClear Transaction to the Clearing House for registration as two ForexClear Contracts, or as one ForexClear Contract and one FCM Contract (as applicable), where (if such ForexClear Transaction is accepted for clearing by the Clearing House) one such resulting ForexClear Contract will be registered in its Client Account relating to such Defaulting ForexClear Clearing Client (each such ForexClear Contract, a “**New Contract**”), provided that the following condition precedent is met (in addition to any other generally applicable provisions of the Rulebook): the presentation of such ForexClear Transaction is effected via such Approved Trade Source System or other method as the Clearing House shall instruct for such purpose, and on such terms and including such details as the Clearing House shall require.

1.13.3 In any other circumstance not covered by Section 1.13.1, Section 1.15, Section 1.3.12 or Regulation 95, a FXCCM may only instruct the Clearing House to transfer a ForexClear Contract from its Client Account to its Proprietary Account in circumstances where the Clearing House has received from the FXCCM:

- (a) evidence of the relevant ForexClear Clearing Client’s consent to such transfer in a form suitable to the Clearing House; and
- (b) an indemnity in a form suitable to the Clearing House.

The Clearing House will usually arrange a transfer of any ForexClear Contract to be transferred pursuant to this Section 1.13.3 within 24 hours of receipt (to the extent applicable) of the documents listed in paragraphs (a) and (b) above.

- 1.13.4 A request from a FXCCM to the Clearing House to carry out any of the actions described in Section 1.13.1 or Section 1.13.2 above shall in every case be deemed a representation by the FXCCM to the Clearing House that:
- (a) an early termination date has occurred with respect to the relevant transaction(s) between the FXCCM and the ForexClear Clearing Client;
 - (b) the FXCCM has provided and will provide (as applicable) any required notices to the Defaulting ForexClear Clearing Client in respect of the early termination date(s) and any other actions described in Section 1.13.1 or 1.13.2;
 - (c) the FXCCM is permitted by its agreement(s) with the Defaulting ForexClear Clearing Client has authority to effect the transfers and/or registrations specified in the FXCCM's requests to the Clearing House in respect of the Defaulting ForexClear Clearing Client;
 - (d) such transfers and/or registrations and all related instructions to the Clearing House comply with Applicable Law; and
 - (e) the individual making such request or presentation (or issuing any related instructions to the Clearing House) is authorised to do so on behalf of the FXCCM.

1.14 **Provision of Tax Forms**

The Clearing House and each FXCCM shall provide to each FXCCM or the Clearing House, as relevant, (i) any forms or documents specified in the ForexClear Contract between the Clearing House and the FXCCM and (ii) any other form, document, statement or certification reasonably requested in writing by the FXCCM or the Clearing House in order to allow the FXCCM or the Clearing House to make a payment under the Rules of the Clearing House or any ForexClear Contract without deduction or withholding for or on account of any tax or with such deduction or withholding at a reduced rate unless the Clearing House or the FXCCM can no longer deliver such form, document, statement or certification solely as a result of a change in law (including double tax treaty) or interpretation thereof after the date of the ForexClear Contract between the Clearing House and the FXCCM. In the case of the Clearing House, the forms required pursuant to item (ii) above include an Internal Revenue Service Form W-8BEN. Additionally, the Clearing House will take such further actions as necessary to ensure that payments made to it can be made without deduction or withholding for or on account of any Tax.

1.15 **Indirect Clearing**

- 1.15.1 In circumstances where an early termination date (howsoever described) occurs in respect of all of the transactions between a ForexClear Clearing Member and a ForexClear Clearing Client acting on behalf of Indirect Clearing Clients comprising an Indirect Gross Account in respect of which such ForexClear Clearing Member (i) is a party to Related ForexClear Contracts and (ii) at the time of such early termination date, is not a Defaulter, that ForexClear Clearing Member may instruct the Clearing House to take one

of the following steps in respect of each Indirect Clearing Client comprising the Indirect Gross Account:

- (a) in circumstances where the ForexClear Clearing Member notifies the Clearing House of a Backup Client in respect of the relevant Indirect Clearing Client, transfer all of the open Related ForexClear Contracts registered to the Indirect Gross Sub-Account referable to the Indirect Clearing Client to the relevant Indirect Gross Sub-Account referable to the Indirect Clearing Client of the new or existing Indirect Gross Account which the ForexClear Clearing Member(a) has opened in respect of such Backup Client (a "**Client to Client Porting**");
- (b) transfer all of the open Related ForexClear Contracts registered to the relevant Indirect Gross Sub-Account referable to the Indirect Clearing Client to:
- (c) a new Individual Segregated Account opened within the Clearing House by the ForexClear Clearing Member directly on behalf of such Indirect Clearing **Client** who shall, after such transfer, become a ForexClear Clearing **Client** in respect of such Client Account; or
 - (i) a new or existing Omnibus Segregated Account opened within the Clearing House by the ForexClear Clearing Member where such Indirect Clearing Client shall, after such transfer, become a ForexClear Clearing Client in respect of such Omnibus Segregated Account,
- (d) (each, a "**Direct Account Opening**"); or
- (e) transfer all of the open Related ForexClear Contracts registered to the relevant Indirect Gross Sub-Account referable to the Indirect Clearing Client to its Proprietary Account (an "**Initial Transfer**").

The Clearing House will determine, in respect of each Indirect Clearing Client comprising the Indirect Gross Account, whether a Client to Client Porting, a Direct Account Opening or an Initial Transfer (as applicable) is possible within the period of time considered by the Clearing House (in its sole discretion) to be appropriate in the relevant circumstances. In the event of a determination by the Clearing House that the relevant step is impossible within such time period (an "**Impossibility Determination**"), the Clearing House will notify the ForexClear Clearing Member and will not undertake a Client to Client Porting, a Direct Account Opening or an Initial Transfer in respect of the relevant Indirect Clearing Client.

1.15.2 Each of the steps referred to in paragraphs 1.15.1 (a), (c)(i) and (e) above will be subject to the following:

- (a) the Clearing House receiving a copy of the notice from the ForexClear Clearing Member to the relevant ForexClear Clearing Client or from the relevant ForexClear Clearing Client to the ForexClear Clearing Member, copied to each Indirect Clearing Client comprising the

Indirect Gross Account, designating the relevant early termination date or, if such early termination date has occurred automatically, evidence of the relevant event of default or termination event;

- (b) the Clearing House receiving a copy of the notice from the ForexClear Clearing Member to the relevant ForexClear Clearing Client and the relevant Indirect Clearing Client confirming that the ForexClear Clearing Member will, in accordance with the instructions of the Indirect Clearing Client, request the Clearing House to arrange a Client to Client Porting, a Direct Account Opening or an Initial Transfer (as applicable) in respect of the Related ForexClear Contracts referable to such Indirect Clearing Client;
- (c) the ForexClear Clearing Member having satisfied the Total Required Margin Amount in respect of the relevant account to which the Related ForexClear Contracts are being transferred;
- (d) the Clearing House receiving an indemnity from the ForexClear Clearing Member in a form suitable to the Clearing House; and
- (e) in respect of a Client to Client Porting, the Clearing House receiving written confirmation from the ForexClear Clearing Member that the Backup Client has agreed to act as the Backup Client in relation to such Client to Client Porting.

The Clearing House will usually arrange a transfer of the Related ForexClear Contracts referable to an Indirect Clearing Client within 24 hours of receipt of the documents listed in (a)(c)(i)(d) Section 1.15.21.14.2 (a) to (e).

For the purposes of this Section 1.15, a "Related ForexClear Contract" has the same meaning as ascribed to such term in Section 1.13 save that, in this Section 1.15 the ForexClear Clearing Client is acting on behalf of one or more Indirect Clearing Clients in respect of whom the ForexClear Clearing Member clears Contracts with the Clearing House in an Indirect Gross Account.

1.16 **Compression**

1.16.1 Subject to Clearing House availability, a ForexClear Clearing Member may compress Eligible ForexClear Compression Contracts in accordance with Regulation 95 and this Section 1.16. There are two options available to a ForexClear Clearing Member that wishes to compress Eligible ForexClear Compression Contracts:

- (a) a ForexClear Clearing Member can request that all such Eligible ForexClear Compression Contracts entered into (i) on behalf of a designated ForexClear Clearing Client and in respect of a particular Client Account (or, where relevant, in respect of an Indirect Gross Sub-Account), or (ii) on such ForexClear Clearing Member's own behalf, be considered for compression by the Clearing House. Such a request shall be reconsidered by the Clearing House automatically each day (and the results notified to the ForexClear Clearing Member

after the applicable scheduled compression run) until the ForexClear Clearing Member notifies the Clearing House to discontinue the compression of its Eligible ForexClear Compression Contracts. ForexClear Clearing Members should contact the Clearing House's Membership Department to request such a compression of Eligible ForexClear Compression Contracts; or

- (b) a ForexClear Clearing Member may notify the Clearing House through the ClearLink API specifying the Eligible ForexClear Compression Contracts it wishes to be compressed. The ForexClear Clearing Member will be notified after the applicable scheduled compression run whether compression has occurred and the Clearing House will not automatically reconsider such compression request on subsequent days regardless of whether compression has occurred.

- 1.16.2 In order to compress such an Eligible ForexClear Compression Contract, a ForexClear Clearing Member must follow the process for compression as set out above and must, at the time of compression, have in its applicable Client Account or Proprietary Account ForexClear Contracts with the same compression identifier (being an identifier applied by the Clearing House which indicates that such ForexClear Contracts are eligible for compression).
- 1.16.3 In respect of each compression run, the Clearing House will notify ForexClear Clearing Members of the cut-off time by which ForexClear Clearing Members must notify the Clearing House of the Eligible ForexClear Compression Contracts to be compressed in order for such Eligible ForexClear Compression Contracts to be included in the relevant compression run. The Clearing House shall process the compression of all Eligible ForexClear Compression Contracts notified to it prior to such cut-off time and shall notify the applicable ForexClear Clearing Member after the relevant compression run of the result of such compression procedure. A notification received after the relevant cut-off time shall be treated as if such notification was submitted on the following day.
- 1.16.4 Following the compression process described above and as further set out in Regulation 95, the applicable ForexClear Clearing Member shall promptly notify the Clearing House if it believes that any errors have occurred in the compression process or if its books and records do not reconcile with those of the Clearing House in respect of the compressed ForexClear Contracts as notified to the ForexClear Clearing Member by the Clearing House.

1.17 Exercise and Expiry Agent

- 1.17.1 ForexClear Clearing Members may facilitate or communicate the exercise of (or intent to exercise) ForexClear Option Contracts to the Clearing House via an exercise and expiry agent. The Clearing House may determine, in its sole discretion, the form and manner of any instruction pursuant to this Section 1.16.
- 1.17.2 In the event that an exercise and expiry agent is not able to facilitate or communicate the exercise of (or intent to exercise) a ForexClear Option

Contract for any reason whatsoever, and the Clearing House becomes aware of such failure to facilitate or communicate, the Clearing House will notify the relevant ForexClear Clearing Members of such failure and may provide details of one or more alternative exercise methods.

- 1.17.3 Exercise and expiry agents may be designated by the Clearing House from time to time and such agents shall be published on the Clearing House's website.
- 1.17.4 Neither the Clearing House nor any other member of the LCH Group shall have any liability whatsoever to any ForexClear Clearing Member or any other person, including any Clearing Client, in contract, tort (including negligence), trust, as a fiduciary or under any other cause of action in respect of any liabilities, damages, losses, costs or expenses of whatsoever nature suffered or incurred by a ForexClear Clearing Member or any other person, including any Clearing Client, as a result of (a) any failure by the Clearing House to provide notice pursuant to Section 1.16.2 or (b) any failure of an exercise and expiry agent to communicate the exercise of (or intent to exercise) a ForexClear Option Contract to the Clearing House.

1.18 Automatic Exercise of ForexClear Contracts

- 1.18.1 Subject to Section 1.18.5, if, at the Expiration Time on the Expiration Date, the In-the-Money Amount of a ForexClear NDO Contract or ForexClear Option Contract at equals or exceeds the product of:
- (a) the number of basis points as published by the Clearing House from time to time as being applicable to the ForexClear Currency Pair referenced in that ForexClear NDO Contract or ForexClear Option Contract, as the case may be; and
 - (b) the Call Currency Amount or the Put Currency Amount, as appropriate,

in each case as calculated at or immediately prior to the Expiration Time on the Expiration Date of the given ForexClear Contract, such ForexClear NDO Contract or ForexClear Option Contract shall be deemed exercised as of such time, **provided that**, in the case of a ForexClear Option Contract, such ForexClear Option Contract had not been exercised by the relevant ForexClear Clearing Member or the Clearing House.

- 1.18.2 For the purposes of Section 1.17.1, the Clearing House may change the number of basis point applicable to any ForexClear Currency Pair by giving three Business Days' prior notice to affected FXCCMs (or such shorter notice period as determined by the Clearing House following consultation with the affected FXCCMs).
- 1.18.3 Subject to Section 1.18.5, the Clearing House receives an instruction from a ForexClear Clearing Member, including via any third party intent agent or middleware provider, before the applicable Expiration Time on the Expiration Date such instruction will in all circumstances be acted upon notwithstanding

any administrative, systems or processing delays that may affect the Clearing House immediately taking the action required upon receipt of such instruction. If the Clearing House receives an instruction from a ForexClear Option Clearing Member at or after the applicable Expiration Time on the Expiration Date then Section 1.17.1 shall in all circumstances apply and the Clearing House shall have no regard to such instruction.

- 1.18.4 The "**In-the-Money Amount**" in relation to a ForexClear NDO Contract or ForexClear Option Contract shall, in respect of the Exercise Date, be equal to:
- (a) in the case of a Call, the excess of the FX Spot Reference Price over the Strike Price, multiplied by the Call Currency Amount, where both the Strike Price and the Settlement Rate are quoted in terms of the amount of Put Currency to be paid per one unit of Call Currency; and
 - (b) in the case of a Put, the excess of the Strike Price over the FX Spot Reference Price, multiplied by the Put Currency Amount, where both the Strike Price and the Settlement Rate are quoted in terms of the amount of Call Currency to be paid per one unit of Put Currency.
- 1.18.5 In order to facilitate the expiry of offsetting ForexClear Option Contracts, the Clearing House will automatically expire ForexClear Option Contracts that are "equal and offsetting". ForexClear Clearing Members may opt out of such automatic expiry of their ForexClear Option Contracts by providing notice to the Clearing House (the form and manner of such notice shall be prescribed by the Clearing House from time to time), and such opt out shall become effective at such time as notified by the Clearing House to the given ForexClear Clearing Member.
- 1.18.6 Two ForexClear Option Contracts shall be deemed "equal and offsetting" to each other where:
- (a) the Buyer of one ForexClear Option Contract and the Seller of the other ForexClear Option Contract is the same ForexClear Option Clearing Member; and
 - (b) the ForexClear Option Contracts have the equivalent or equal (1) Call Currency and Put Currency, (2) Call Currency Amount and Put Currency Amount, (3) Strike Price, (4) Expiration Date and (5) Settlement Date.
- 1.18.7 Except where a ForexClear Clearing Member has opted out of the automatic expiry of their ForexClear Option Contracts in accordance with Section 1.18.5, at the time, as determined by the Clearing House, on the Expiration Date for a pair of equal and offsetting ForexClear Option Contracts of a ForexClear Option Clearing Member, the Clearing House shall automatically expire and therefore terminate such pair of ForexClear Option Contracts.
- 1.18.8 In the event the Clearing House receives an instruction from a ForexClear Option Clearing Member, including via any third party exercise and expiry agent or middleware provider, with respect to any ForexClear Option Contract

that is subject to automatic expiry on its Expiration Date, the Clearing House shall disregard such instruction and in all circumstances such ForexClear Option Contract shall be expired on its Expiration Date.

- 1.18.9 Capitalised terms used in this Section 1.17 and not otherwise defined shall have the meanings specified for such terms in (i) the ForexClear Option Contract Terms applicable to that ForexClear Option Contract, and, if not defined therein, (ii) the 1998 FX and Currency Options Definitions (including Annex A thereto) as published by the International Swaps and Derivatives Association, Inc., the Emerging Markets Trade Association and The Foreign Exchange Committee.

1.19 CLS Payment Procedures

- 1.19.1 In connection with ForexClear Deliverable Contracts, where applicable, FXCCMs are required to meet the following requirements with respect to CLS:

Time	Action or Requirement
00:00 CET	Clearing House to provide FXCCMs expected CLS funding requirements.
01:30 – 02:00 CET	Clearing House to provide FXCCMs final CLS funding requirements. FXCCMs required to make such payments by 09:00 CET (the “Daily CLS Cut-Off Time”).
06:00 – 09:00 CET	FXCCMs required to make payments to cover all short positions in all currencies.
08:00 CET	CLS to issue payments to FXCCMs per settlement instructions for each relevant FXCCM.
09:00 – 10:00 CET	Clearing House to initiate and complete liquidity provisions.

- 1.19.1 In connection with ForexClear Deliverable Contracts, where applicable, the following Relevant FX Liabilities are payable to CLS by FXCCMs in accordance with instructions from the Clearing House:

- (a) Initial Exchange Amounts, Final Exchange Amounts and amounts owed under the Economic Terms of ForexClear Spot Contracts and ForexClear Deliverable Forward Contracts; and
- (b) Premiums under ForexClear Option Contracts,

in each case net of any return of aggregate variation margin or NPV Payments denominated in the same currency and due on the same day.

- 1.19.2 Each relevant ForexClear Clearing Member warrants that the Relevant FX Liabilities that are paid to CLS pursuant to Section 1.18.2 are transferred free from any proprietary, equitable or other similar interest of any person.
- 1.19.3 Each relevant ForexClear Clearing Member shall at all times maintain complete and accurate written records of all Payment Transfer Orders given by it (or on its behalf) to its Member Settlement Bank(s) in respect of all amounts under all of the ForexClear Contracts (other than ForexClear Non-Deliverable Contracts) registered in its name from time to time. Upon demand by the Clearing House, a ForexClear Clearing Member shall immediately provide all such records to the Clearing House.

1.20 Settlement Limits for ForexClear Clearing Members

- 1.20.1 Subject to the Regulations and Section 1.19.2, the Clearing House shall from time to time determine the (i) Settlement Position Limit and (ii) Settlement Exposure Limit in respect of each ForexClear Currency and each relevant ForexClear Clearing Member.
- 1.20.2 A ForexClear Clearing Member may request, in such form and manner as the Clearing House prescribes from time to time, that the Clearing House set a Settlement Position Limit for a given ForexClear Currency below the limit determined pursuant to paragraph (a) above, provided that such requested limit meets the Clearing House's risk tolerance, as determined by the Clearing House in its sole discretion. Upon the Clearing House notifying the ForexClear Clearing Member that such requested limit is approved, including the time at which such limit shall take effect, such limit shall be considered the "Settlement Position Limit" for the given ForexClear Currency for the relevant ForexClear Clearing Member.
- 1.20.3 Notwithstanding the acceptance by the Clearing House of a revised Settlement Position Limit pursuant to Section 1.19.2, the Clearing House may increase or decrease such revised limit, in its sole discretion and upon reasonable notice to the given ForexClear Clearing Member, for risk, legal or regulatory considerations, provided that in no event shall an increased limit exceed the Settlement Position Limit determined by the Clearing House pursuant to Section 1.19.1 or the Regulations.
- 1.20.4 Subject to Section 1.19.2, the Clearing House shall notify ForexClear Clearing Members of Settlement Position Limits and Settlement Exposure Limits via the ForexClear Service Portal or member circular.

1.21 Mandatory ForexClear Swap Limit

- 1.21.1 Subject to the Regulations, the Clearing House shall, in its sole and absolute discretion, determine from time to time the Mandatory ForexClear Swap Limit in respect of each ForexClear Clearing Member and each ForexClear Currency. The Clearing House shall notify each ForexClear Clearing Member of the Mandatory ForexClear Swap Limits applicable to it via the ForexClear Service Portal.

1.22 **ForexClear STM Contracts – Conversions**

1.22.1 If a ForexClear Clearing Member wishes to make a conversion pursuant to Regulation 106A, it must complete and deliver to the Clearing House such documentation (if any) as the Clearing House determines, in its sole discretion, from time to time.

1.23 **ForexClear Settlement Reduction Service**

1.23.1 The Clearing House offers an optional “ForexClear Settlement Reduction Service” to ForexClear Clearing Members to facilitate the registration of ForexClear Transactions in connection with a ForexClear Settlement Event.

1.23.2 ForexClear Clearing Members who wish to opt-in to the ForexClear Settlement Reduction Service must provide notice to the Clearing House (the form and manner of such notice shall be prescribed by the Clearing House from time to time). The Clearing House may accept a request to join the ForexClear Settlement Reduction Service in its sole discretion.

1.23.3 From the occurrence of a ForexClear Settlement Event to (but excluding) 5:00PM Eastern Standard Time on the same day, the Clearing House may bind and conclude one or more Mandatory Settlement ForexClear Swap Contracts between the Impacted ForexClear Option Clearing Member or any other ForexClear Option Clearing Member who has opted-in to the ForexClear Settlement Reduction Service on the one hand, and the Clearing House on the other hand, in each case on such terms as the Clearing House shall in its sole and absolute discretion determine (but, subject in all cases to the requirements set forth in Regulations 100 and 105).

1.23.4 Following the conclusion of the given ForexClear Settlement Event, the Clearing House shall provide notice to each ForexClear Option Clearing Member specifying the Mandatory Settlement ForexClear Swap Contracts (if any) entered into on behalf of such ForexClear Option Clearing Member. The Clearing House shall prescribe the form and manner of such notice from time to time in its sole discretion.

1.23.5 The Clearing House does not guarantee the conclusion of the given ForexClear Settlement Event through the process set forth in paragraph 1.23.3 above.

1.24 **ForexClear Spot Transactions and ForexClear Deliverable Forward Transactions – Reporting of Hedge Transactions**

1.24.1 ForexClear Clearing Members shall, in a manner and at such time as prescribed by the Clearing House from time to time, provide to the Clearing House a report of the ForexClear Spot Transactions and ForexClear Deliverable Forward Transactions entered into by the given ForexClear Clearing Member that were not concluded for the purposes of (A) hedging some or all of such ForexClear Clearing Member’s foreign exchange exposure, (B) reducing its initial margin requirements or (C) reducing its settlement risk, in each case arising under, or in connection with, (i) one or

more ForexClear Deliverable Transactions submitted by that ForexClear Clearing Member or (ii) one or more ForexClear Deliverable Contracts then registered in its name.

The foregoing shall not include any ForexClear Spot Transaction or ForexClear Deliverable Forward Transaction resulting from the exercise of a ForexClear Option Contract.

SCHEDULE 1
CONFIDENTIALITY, NON-DISCLOSURE AND PARTICIPATION IN THE
FOREXCLEAR DEFAULT MANAGEMENT GROUP

1. Definitions

- 1.1 **"Confidential Material"** means data (including but not limited to portfolio data) and documents, which are not in the public domain and which are disclosed to the FXCCM, its associated companies and advisers, or to which the FXCCM, its associated companies and advisers obtains or otherwise has access as a result of participation in the ForexClear Default Management Process, (which, for the avoidance of doubt, does not include any information, data or documents provided to the Clearing House by the FXCCM).
- 1.2 **"FXDMG Member"** means an individual appointed by a Nominating FXCCM.
- 1.3 **"Nominating FXCCM"** means a ForexClear Member who, through their obligations under the ForexClear DMP Annex, makes available a representative to serve on the FXDMG.
- 1.4 **"Permitted Purpose"** means proper fulfilment by the FXCCM of its duties under the ForexClear DMP Annex and includes, after the completion of the Auction, the use by the FXCCM its associated companies and advisers (to be determined by it at its discretion) of any data or documents related to portfolios successfully won through the Auction, for the purposes of its own ongoing portfolio management and to enable it to comply with ongoing legal or regulatory requirements.
- 1.5 References denoting the masculine (including "his" and "he") shall be construed as the feminine if the FXDMG Member is female.
- 1.6 All other terms have the meaning ascribed to them in the Default Rules (including the ForexClear DMP Annex).

Confidentiality and Non-Disclosure: General Obligations of the FXCCM

2. Confidentiality

- 2.1 The FXCCM agrees that, in consideration of being given Confidential Material, it will keep all such Confidential Material in the strictest confidence, adhere to the provisions of this Agreement in respect thereof and, subject to paragraph 2.3 below, will not disclose it to any person without the prior written permission of the Managing Director, Risk of the Clearing House or a Director of Risk Management of the Clearing House, providing always that the FXCCM shall be relieved of such an obligation of confidentiality in respect of any Confidential Material if :
- (a) it comes into the public domain other than through a breach by the FXCCM of this Agreement; or
 - (b) the FXCCM is expressly obliged to do so by order of a court of competent jurisdiction upon the application of a third party, or as a result of any request to disclose such part or parts of the Confidential Material in connection with

any inquiry or other request by a regulatory authority or self-regulatory authority asserting jurisdiction over the FXCCM.

- 2.2 The FXCCM further agrees that it will not use any Confidential Material for any purpose other than the Permitted Purpose. In this regard the FXCCM expressly acknowledges and agrees that the Confidential Material may contain commercially sensitive information which if used inappropriately or otherwise than in accordance with this Schedule 1 might result in the gaining of an unfair commercial advantage by the FXCCM over other members of the Clearing House ForexClear Service.
- 2.3 Subject to paragraph 2.4 below the FXCCM may disclose any Confidential Material to any of its employees, representatives, associated companies and advisers on a "**strictly need to know**" basis, in the event that any such person needs that Confidential Material for the Permitted Purpose (and to that extent only).
- 2.4 The FXCCM agrees to establish and adhere to adequate procedures (including, without limitation, the establishment of appropriate Chinese walls) to ensure that any employee or representative to whom any Confidential Material is disclosed shall not use any part or all of that Confidential Material for any proprietary purpose outside the scope of the Permitted Purpose.
- 2.5 This paragraph and the duties hereunder shall survive the termination of this Schedule 1 and, in relation to any Confidential Material, shall expire on the second anniversary of the date the Confidential Material was first provided to the FXCCM.

3. **Secrecy**

- 3.1 Except in accordance with the terms of this Schedule 1, the FXCCM agrees that it shall treat as strictly confidential and shall not disclose or allow to be divulged to any person:
- (a) Confidential Material;
 - (b) the fact that it has received any Confidential Material;
 - (c) the existence of any discussions or negotiations between the parties in this matter.
 - (d) details of the Permitted Purpose and any of the proposals, terms, conditions, facts or other matters relating to any of the forgoing. Subject only to the FXCCM being relieved of such an obligation because of the circumstances covered in paragraphs 2.1(a) and 2.1(b).
- 3.2 The Clearing House undertakes to ensure that the FXCCM is fully apprised of information on the ForexClear Default Management Process that it makes public and which is accordingly of relevance to the FXCCM's obligations.

4. **Property**

The parties acknowledge that the property in the Confidential Material (or any part of it) shall not pass to the FXCCM or any FXCCM, and the property in the media on

which it is conveyed to the receiving party shall not pass to the FXCCM or any FXCCM unless expressly so agreed by the Clearing House in writing.

5. Return of Confidential Material

Upon request by the Clearing House, and in any event upon fulfilment of the Permitted Purpose, the FXCCM shall promptly return to the Clearing House by a secure method of transportation all or any part of the Confidential Material and all copies thereof in its possession or control or that of its employees or representatives, including all other papers, programs and records incorporating any of that Confidential Material, or shall destroy such information and shall certify to the Clearing House in writing that it has done so provided that the FXCCM is permitted to retain copies of any Confidential Material which it requires as part of its portfolio management or otherwise for legal or regulatory reasons.

6. No Representations or Warranties; No Conflict of Interest

6.1 Subject to references made in Paragraph 7 (*Liability*), the Confidential Material is disclosed by the Clearing House without any representation or warranty whatsoever as to its accuracy or completeness or otherwise.

6.2 The Clearing House acknowledges and agrees that, subject to compliance with the terms of this Schedule 1 by the FXCCM and any of its employees or representatives to whom Confidential Material is provided in accordance with this Schedule 1, the FXCCM's participation in the ForexClear Default Management Process shall not prevent the FXCCM from carrying out any transaction, or otherwise providing investment services in respect of, investments that the FXCCM may subsequently learn are the subject of Confidential Material and, furthermore, the Clearing House agrees that it shall not be able to assert that the FXCCM has a conflict of interest in doing so nor shall the Clearing House have a claim or action in respect of the foregoing against the FXCCM or any of its directors, employees or other representatives.

7. Liability

7.1 Subject to Regulation 52 (*Exclusion of Liability*), the parties agree and acknowledge that neither the Clearing House nor any of its employees or representatives shall have any liability whatsoever to the FXCCM or any of its employees or representatives, for any loss or damage of whatsoever kind howsoever arising directly or indirectly out of or in connection with the disclosed Confidential Material or its use.

7.2 The Clearing House accepts liability for any personal injury or death caused by the negligence of the Clearing House and any fraud or wilful default on the part of the Clearing House, for any actions that it may take on the basis of advice given to it by the FXDMG, and for the accuracy of the information (confidential material as defined in this Schedule 1) that it distributes to the FXCCM in connection with the ForexClear Default Management Process.

7.3 Under no circumstances shall the Clearing House have any liability to the FXCCM for (a) any consequential loss or other indirect loss of whatsoever kind or (b) loss of anticipated profit (whether direct or indirect).

8. Remedies

Without affecting any other rights or remedies that the Clearing House may have, the FXCCM acknowledges that the Clearing House may be irreparably harmed by any breach of the terms of this Schedule 1 and that damages alone may not necessarily be an adequate remedy. Accordingly, the Clearing House will be entitled to the remedies of injunction, specific performance and other equitable relief, or any combination of these remedies, for any threatened or actual breach of its terms, and not proof of special damages will be necessary to enforce this Agreement.

Confidentiality and Non-Disclosure and General Terms of Participation in ForexClear Default Management Group

9. Conflict of Interest

The FXCCM shall procure that, in the event that a FXDMG Member takes the view that a possible conflict of interest may arise with regard to any matter forming part of the business of the FXDMG, he shall promptly report his view to the Chairman of the FXDMG, who shall act accordingly, taking the advice of other FXDMG Members as appropriate.

10. Confidentiality

- 10.1 Subject to paragraph 10.3 below, the FXCCM shall procure that the FXDMG Member shall keep all Confidential Material strictly confidential to himself and will not disclose it to any person who is not a FXDMG Member (including, for the avoidance of doubt, the FXCCM who recommended his appointment to the FXDMG (the Nominating FXCCM) or his employer (if different) or any other employee, adviser, officer or fellow worker of that FXCCM or his employer) without the prior written permission of the Managing Director, Risk of the Clearing House or his properly authorised delegate, providing always that the FXDMG Member shall be relieved of such an obligation of confidentiality in respect of any Confidential Material if it comes into the public domain in the circumstances covered in paragraphs 2.1(a) and 2.1(b) above.
- 10.2 Subject to paragraph 10.3 below, the FXCCM shall procure that the FXDMG Member shall not use any Confidential Material for any purpose other than the proper fulfilment of his duties as a FXDMG Member.
- 10.3 The parties acknowledge that, in the event that a Default Notice is issued by the Clearing House in respect of any ForexClear Clearing Member, the FXDMG Member may be required by the Nominating FXCCM and/or his employer (if different) to provide certain services to the Clearing House in the management of the default. In such event, and only in such event, the parties acknowledge that the FXDMG Member shall be entitled to disclose any part or parts of the Confidential Material as may be agreed by the Clearing House, in such manner and form and in accordance with such procedures as may be prescribed by the Clearing House and/or the FXDMG with regard to the management of that default.
- 10.4 Upon request by the Clearing House, and in any event upon termination of the membership of the FXDMG Member of the FXDMG, the FXCCM shall procure that

the FXDMG Member shall promptly return to the Clearing House by a secure method of transportation all or any part of the Confidential Material and all copies thereof in his possession or control, including all abstracts, notes, drawings and other papers, programs and records incorporating any of that Confidential Material, or shall destroy such information and shall certify to the Clearing House in writing that it has done so, provided that the FXDMG Member is permitted to retain a copy thereof to comply with applicable legal or regulatory requirements.

11. **Warranty and Representation**

The FXCCM represents and warrants that it will procure that:

- (a) the Nominating FXCCM and the FXDMG Member's employer (if different) are aware of the obligations of confidentiality arising out of this Procedure; and
- (b) nothing in this Schedule 1 will cause the FXDMG Member to breach any duty or obligation (whether arising pursuant to contract or otherwise) which he owes to the Nominating FXCCM or to his employer, if different, or any other contract counterparty of the FXDMG Member.

12. **Antitrust**

12.1 The FXCCM acknowledges that the FXDMG comprises representatives of competing companies and that antitrust law prohibits the sharing of competitively sensitive information as between competitors. The FXCCM shall procure that its FXDMG Member has been made aware of the relevant obligations under antitrust laws prior to attending any meetings or calls of the FXDMG.

12.2 The FXCCM shall procure that the FXDMG Member does not share any competitively sensitive information relating to the FXCCM with any other members of the FXDMG. In particular, the FXDMG Member should not:

- (a) enter into general business discussions about the FXCCM's business or ventures in which it has an interest, except where strictly necessary for the purposes of the FXDMG;
- (b) disclose or enter into discussions relating to the FXCCM's spreads, margins, commissions (paid or received), fee schedules, pricing policies, current or future margins, trading volumes or the FXCCM's customers;
- (c) disclose or enter into discussions relating to the FXCCM's future plans (such as new products or changes to trading arrangements, prospective clients, business opportunities or product development plans), strategic plans, or expansion plans; or
- (d) disclose or enter into discussions relating to prices, commissions paid or payable to, or any other terms and conditions of arrangements between the FXCCM and other clearing houses, suppliers, brokers or other intermediaries.

12.3 At the beginning of each meeting, the Chairman of the FXDMG will remind the participants of their obligations under antitrust law.

- 12.4 The Clearing House will circulate to FXDMG Members an agenda in advance of all meetings of the FXDMG. All meetings of the FXDMG must proceed strictly in accordance with the agenda and will be recorded in minutes circulated by the Clearing House. Participants must notify the Clearing House to the extent the minutes do not reflect the relevant meeting.
- 12.5 If any disclosure or discussions that may be contrary to antitrust law are initiated, the Chairman of the FXDMG should immediately cease such disclosure or discussions and, if specific participants have raised concerns, allow them to record these concerns in the minutes.

13. **Confidentiality and Non-Disclosure: General Obligations of the Clearing House**

The Clearing House will treat all Confidential Material in the terms envisaged in Schedule 1 (*Confidentiality, non-disclosure and participation in the ForexClear Default Management Group*), confining use to the ForexClear Default Management Process, restricting its availability on a "**strictly need to know basis**", and exercising every duty of care required of it as a Recognised Clearing House and as a Derivatives Clearing Organization.