

### VIA EMAIL TO: SUBMISSIONS@CFTC.GOV

07 March 2014

Ms. Melissa Jurgens Commodity Futures Trading Commission 1155 21<sup>st</sup> Street NW Three Lafayette Centre Washington DC 20581

Dear Ms. Jurgens:

Pursuant to CFTC regulation §40.6(a), LCH.Clearnet Limited ("LCH.Clearnet"), a derivatives clearing organization registered with the Commodity Futures Trading Commission (the "CFTC"), is submitting for self-certification changes to its rules. A new rule is being added in respect of the updating of a Settlement Rate Option and there is a change to the currency fixing rate for Indonesian Rupiah ("IDR") utilised by LCH.Clearnet's ForexClear service in its capacity as the Calculation Agent on NDF contracts. These changes will be implemented and become effective on March 28, 2014.

### **Explanation and Analysis**

LCH.Clearnet's ForexClear service clears non-deliverable foreign exchange forwards (NDFs) in eleven currency pairs, including USD/IDR. The settlement price for each NDF contract is determined with reference to published fixings and the relevant fixings are set out in LCH.Clearnet's Clearing House Procedures ("Procedures") and FCM Procedures.

The ABS Benchmarks Administration Co Pte. Ltd. (ABS Co), in consultation with the Singapore Foreign Exchange Market Committee (SFEMC), has announced that it will discontinue the USD/IDR spot rate benchmark, with the last date of publication being March 27, 2014. The SFEMC has recommended that the onshore USD/IDR spot rate benchmark that is reported by Bank Indonesia and published on its website should be applied to outstanding NDF contracts, as well as contracts that have trade dates on or after March 28, 2014. The ForexClear service will therefore move to using the onshore USD/IDR spot rate benchmark in its capacity as the Calculation Agent, and will store and apply the Settlement Rate Option and the Valuation Date for each NDF contract in USD/IDR.

Additionally, new regulations are being inserted into the General Regulations and FCM Regulations to support the process of updating Settlement Rate Option benchmarks. Under the current rulebook the ForexClear service may not amend the benchmark referenced by a contract without the express consent of the clearing member. This modification will permit the

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ForexClear service to change the benchmark referenced by outstanding contracts when a benchmark is discontinued, as long as ISDA publishes a Multilateral Amendment Agreement (MAA) specifying a replacement benchmark. The ForexClear service may amend the benchmark to that specified in the related MAA.

### Part II: Amendments to the Rules and Regulations of LCH.Clearnet

The implementation of these changes requires amendments to section 2K of the Procedures [Exhibit A], section 2B of the FCM Procedures [Exhibit B], as well as to the General Regulations [Exhibit C] and FCM Regulations [Exhibit D]. These changes are summarised in the tables below:

Procedures reference	FCM Procedures reference	Explanation
2K.3.3.1(b)(vii)	2B.8.1	Removal of SGD from the USD-IDR currency pair row as a business day for valuation date and removal of Singapore as a relevant city for business day for valuation date.
2K.3.6 (b)	2B.8.8	Changed the name of the Settlement Rate Option source codes for the currency pair USD-IDR.
2K.4.3	2B.9.3	Changed the name of the Settlement Rate Option source codes for the currency pair USD-IDR and changed the local time from 11:30 (Singapore) to 10:00 (Jakarta).

General Regulations reference	FCM Regulations reference	Explanation
Regulation 108A	Regulation 44	Inclusion of new rule on discontinuation of a Settlement Rate Option.

## Part III: Certification by LCH.Clearnet

LCH.Clearnet certifies to the CFTC, in accordance with CFTC Regulation §40.6, that the planned changes comply with the Commodity Exchange Act and the CFTC Regulations promulgated there under. LCH.Clearnet further certifies that, upon the submission of this material, in compliance with §39.21 of the Commission's regulations, LCH.Clearnet will post a notice of pending certification with the CFTC and a copy of the submission on LCH.Clearnet's website at <a href="http://www.lchclearnet.com/rules">http://www.lchclearnet.com/rules</a> and <a href="regulations/ltd/proposed rules.asp">regulations/ltd/proposed rules.asp</a>

## Part IV: Compliance with Core Principles

LCH.Clearnet will continue to comply with all Core Principles following the introduction of these proposed changes to the Rulebook and Procedures. LCH.Clearnet has concluded that its compliance with the Core Principles would not be adversely affected by these changes. The changes reflected herein will ensure continued compliance with the Core Principles particularly Core Principles C and L.



## Part V: Opposing Views

There were no opposing views expressed to LCH.Clearnet by its governing board or committee members, members of LCH.Clearnet or market participants that were not incorporated in the changes.

#### Certification

LCH.Clearnet Limited hereby certifies to the Commodity Futures Trading Commission, pursuant to the procedures set forth in Commission regulation §40.6, that the attached rule submission complies with the Commodity Exchange Act, as amended, and the regulations promulgated there under.

Should you have any questions regarding this submission please contact me at <u>julian.oliver@lchclearnet.com</u>.

Yours sincerely,

Julian Oliver, Director Compliance and Public Affairs

LCH.Clearnet Ltd

Cc:

Gavin Wells, LCH.Clearnet Jay Iyer, LCH.Clearnet Kenji Takaki, CFTC Shawn Durrani, CFTC

# **LCH.Clearnet Rule Submission**

# Exhibit A

## **SECTION 2K**

# **CONTENTS**

2K.	INTRO	DUCTION AND INTERPRETATION	 2
	2K.1	USERS OF FOREXCLEAR	 2
	2K.2	SERVICE SCOPE	 3
	2K.3	TRADE MANAGEMENT	 5
	2K.4	MARKET DATA	 13
	2K.5	VALUATION AND MARGIN	 16
	2K.6	GENERAL MARGINING PROCESS	 21
	2K.7	FOREXCLEAR REPORTING	 23
	2K.8	TREASURY OPERATIONS & COLLATERAL MANAGEMENT	 24
	2K.9	PAYMENT OF STAMP TAX	 25
	2K.10	DEFAULT MANAGEMENT	 26
APPE	NDIX 2	<.A	 30
		IDENTIALITY, NON-DISCLOSURE AND PARTICIPATION XCLEAR DEFAULT MANAGEMENT GROUP	

of the services provided by any ForexClear Matcher or the timeliness or otherwise of the delivery of any ForexClear Transaction details by that ForexClear Matcher to the Clearing House. Such matters form part of the relationship between the FXCCM and the ForexClear Matcher and the terms of such relationship may entitle the ForexClear Matcher 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 Matcher 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 Matcher, 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 104 or 106.

## 2K.3.3 Trade Validation and Registration

## 2K.3.3.1 Process Flow Description

- (a) The Clearing House performs a validation check on each trade submitted by FXPs to ensure that each such trade meets the ForexClear Eligibility Criteria and the Counterparty Technical Validation Check (as defined below) and Incremental Risk Checks (as defined at Section 2K.3.3.2) required for ForexClear Transactions (together the "Validation Checks").
- (b) The fields checked are as follows:
  - (i) **Counterparties**: (a) are both parties submitting trade particulars FXPs and (b) has each FXCCM in whose name the ForexClear Contract is to be registered not been declared a defaulter by the Clearing House? (together, the "Counterparty Technical Validation Check");
  - (ii) **Trade type:** is the instrument type an NDF?
  - (iii) **Economic Terms:** does the trade include all the Economic Terms (as defined in the Schedule to the ForexClear Regulations)?
  - (iv) **Currency Pairs:** are the Reference Currency and the Settlement Currency a Currency Pair (as defined in the Schedule to the ForexClear Regulations)?
  - (v) **Settlement Currency:** is the Settlement Currency USD?
  - (vi) Trade tenor eligibility: does the scheduled Settlement Date fall on a date: (a) not earlier than three business days immediately following the date on which the trade is submitted to the Clearing House for registration (the "Submission Date") and (b) not later than the date falling two calendar years plus two business days immediately following the Submission Date? If the ForexClear Transaction arrives after

the ForexClear date roll (22.00 local London time), the Submission Date is defined as the next good business day.

(vii) Valuation Date and Settlement Date: do the Valuation Date and Settlement Date for the ForexClear Transaction fall on a valid Business Day for the Currency Pair to which the ForexClear Transaction relates? Does the Settlement Date fall on a Business Day after the Valuation Date? The table below shows the relevant Business Days for determining the Valuation Date and the Settlement Date:1

Currency Pair	Business Days for Valuation Date	Relevant City/Cities for Business Day for Valuation Date	Business Days for Settlemen t Date	Relevant City for Business Day for Settlement Date
USD-BRL	BRL & USD	Any of Rio de Janeiro, Brasilia or São Paulo and New York City	USD	New York City
USD-CLP	USD & CLP	New York and Santiago	USD	New York City
USD-CNY	CNY	Beijing	USD	New York City
USD-COP	USD & COP	New York and Bogota	USD	New York City
USD-IDR	IDR <mark>&amp; SGD</mark>	Jakarta <del>and</del> <del>Singapore</del>	USD	New York City
USD-INR	INR	Mumbai	USD	New York City
USD-KRW	KRW	Seoul	USD	New York City
USD-MYR	MYR	Kuala Lumpur	USD	New York City
USD-PHP	PHP	Manila	USD	New York City
USD-RUB	USD & RUB	New York and Moscow	USD	New York City
USD-TWD	TWD	Taipei	USD	New York City

- (c) Trades that pass the Validation Checks are accepted and two trade records are created for the ForexClear Transaction: one for the ForexClear Contract between the Clearing House and the first FXCCM to the ForexClear Transaction and the other for the ForexClear Contract between the Clearing House and the second FXCCM to the ForexClear Transaction.
- (d) Provided each FXCCM has sufficient Collateral, the Clearing House will send a message via the ForexClear Matcher confirming the registration or, where the trade fails a Validation Check, the trade will be rejected and a status message will be sent to the ForexClear Matcher giving a reason for rejection.
- (e) As provided in Section 2.3.3, in respect of messages confirming registration, the time of dispatch of such message shall be the Registration Time of that ForexClear Contract.
- (f) 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

<sup>1</sup> As amended from time to time as per relevant EMTA Template.

(d) All trade cancellation instructions must pass the Incremental Risk Check. If any FXCCM has not transferred sufficient Collateral in respect of its Liabilities or estimated Liabilities to the Clearing House (taking into account any MER Buffer and MCE provided by the Clearing House, if any) at the time of the relevant Incremental Risk Check, 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.

## 2K.3.6 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 Contract.

On the Valuation Date with respect to each ForexClear Contract, the Settlement Rate will be retrieved from the Settlement Rate Option per Currency Pair in accordance with the relevant EMTA Templates (as referenced in the Schedule to the ForexClear Regulations). The Market Data provider for Settlement Rates is Reuters.

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

- (a) Settlement Rate Option source code (as below);
- (b) Valuation Date.

The table below gives the source codes of the Settlement Rate Options to be used as per the relevant EMTA Template:

Currency Pair	Settlement Rate Option (or as per the relevant EMTA Template as amended from time to time)
USD-BRL	BRL PTAX (BRL09)
USD-CLP	CLP DÓLAR OBS (CLP10)
USD-CNY	CNY SAEC (CNY01)
USD-COP	COP TRM (COP2)
USD-IDR	IDR <del>IVWAP</del> <u>JISDOR (</u> IDR0 <u>4</u> 3)
USD-INR	INR RBIB (INR01)
USD-KRW	KRW KFTC18 (KRW02)
USD-MYR	MYR PPKM (MYR03)
USD-PHP	PHP PDSPESO (PHP06)
USD-RUB	RUB CME-EMTA (RUB03)
USD-TWD	TWD TAIFX1 (TWD03)

The Clearing House applies the Settlement Rate to all relevant ForexClear Contracts at a predefined time (see Section 4.3 below) following its publication.

The Clearing House calculates the Settlement Currency Amount in the Settlement Currency per ForexClear Contract. FXCCMs can retrieve the Settlement Rate and Settlement Currency Amount in the Settlement Currency via ForexClear Reporting (as defined in Section 7) on the ForexClear Service Portal and on MemWeb, which are internet services onto which information is loaded and can be accessed by FXCCMs.

### 2K.3.6.2 Process Flow Description

- (a) After the Registration Time for a ForexClear Contract, the ForexClear Service links a Settlement Rate Option to it in accordance with the relevant EMTA Template for the Currency Pair.
- (b) On the Valuation Date, the Clearing House uses the Settlement Rate for the Currency Pair for the ForexClear Contract when it is published by Reuters, and calculates the Settlement Currency Amount for each ForexClear Contract in the Settlement Currency by applying the relevant Settlement Rate Option as published.
- (c) If the Settlement Rate Option set out in the relevant EMTA Template 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.

### 2K.3.7 **Settlement**

With respect to each ForexClear Contract, the Settlement Currency Amount is calculated by the application of the Settlement Rate to the Notional Amount in accordance with the 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 Contracts will have resulted in variation margin ("VM") credits and debits between the parties (as set out at Section 5.2). With respect to each ForexClear Contract, on the Business Day immediately preceding the Settlement Date, the Clearing House nets the Settlement Currency Amount against the aggregate net VM which has been paid/received through the term of the ForexClear 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 Contract, the transfer to, or receipt from, the Clearing House of all the Collateral in respect of the variation margin required during the term of such ForexClear Contract shall satisfy the relevant party's obligation to pay the Settlement Currency Amount on the Settlement Date of such ForexClear Contract. For the purpose of providing Nostro reconciliations, to the relevant parties, the Clearing House will provide Reporting (as defined in Section 7) which will reflect an entry for the "Settlement Currency Amount" and a separate entry for the reversal of the aggregate net VM which has been paid/received through the term of the ForexClear Contract. This paragraph applies even if the

- (i) Source 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
S/N
1 week
1 month
2 months
3 months
6 months
12 months
24 months

- (c) Settlement Rate Options:
  - (i) Source Reuters.
  - (ii) Frequency when published (at the times shown in the table at Section 4.3 below).
- (d) Interest Rate Curves:
  - (i) Source internal Clearing House.
  - (ii) Frequency at each SwapClear margin run.
- (e) Country Credit Spreads:
  - (i) Source Bloomberg.
  - (ii) Frequency when published.
- (f) USD LIBOR Curve:
  - (i) Source SwapClear.
  - (ii) Frequency at each SwapClear margin run.
- (g) PAI rates:
  - (i) Source LCH Treasury.
  - (ii) Frequency Daily.

#### 2K.4.3 Market Data

Reference Currency	Settlement Rate Option (or as per the relevant EMTA Template as amended from time to time)	Settlement Rate Publication Local Time (or as per the relevant EMTA Template as amended from time to time)
BRL	BRL PTAX (BRL09)	13:15 (São Paolo)
CLP	CLP DÓLAR OBS (CLP10)	10:30 (Santiago)
CNY	CNY SAEC (CNY01)	09:15 (Beijing)
COP	COP TRM (COP02)	10.30 (Bogota)
IDR	IDR <del>IVWAP <u>JISDOR</u> (IDR0<u>4</u>3)</del>	11:30 (Singapore) 10.00 (Jakarta)
INR	INR RBIB (INR01)	12:30 (Mumbai)
KRW	KRW KFTC18 (KRW02)	15:30 (Seoul)
MYR	MYR PPKM (MYR03)	11:10 (Kuala Lumpur)
PHP	PHP PDSPESO (PHP06)	11:30 (Manila)
RUB	RUB CME-EMTA (RUB03)	13:30 (Moscow)
TWD	TWD TAIFX1 (TWD03)	11:00 – 12:00 (Taipei)

#### 2K.4.4 Market Data Provision to FXCCMs

Market Data used in a Margin Run is made available to FXCCMs via ForexClear Reporting (as defined in Section 7).

## 2K.4.5 **Curve Building in ForexClear**

### 2K.4.5.1 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 LIBOR Curve based on interpolation techniques agreed through the ForexClear Risk & Trading Working Group (a group comprising the Clearing House and FXCCM's risk and trading representatives) ("RTWG"). The USD LIBOR Curve is used for discounting; the FX curve is used for capitalisation of forward cash flows.

#### 2K.4.5.2 Interest Rate Curve

The Clearing House applies the linear interpolation method to build the Interest Rate Curve. Linear interpolation is applied on zero coupon curves.

#### 2K.4.5.3 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 Run (as defined in Section 6.1.2):

- (a) FX Spot Rates; and
- (b) FX Swap Points.

## 2K.4.6 Country Credit Spreads

# **LCH.Clearnet Rule Submission**

# Exhibit B

FCM Procedures Contents

## CONTENTS

FCM F	PROCEDU	JRES	1
1.	FCM CL	EARING MEMBER STATUS	1
	1.1	FCM Clearing Member Application Procedure	1
	1.2	Net Capital	4
	1.3	Calculation Of Net Capital	5
	1.4	Reporting	5
	1.5	Additional Requirements	6
	1.6	Other Conditions	7
2.	PRODU	CT-SPECIFIC PROCEDURES	8
2A	SWAPC	LEAR	9
	2A.1	The Clearing Process	9
	2A.2	Operating Times And Calendars	10
	2A.3	Registration	10
	2A.4	Position Accounts	<u>19</u> 16
	2A.5	Financial Accounts	<u>19</u> 16
	2A.6	FCM SwapClear Contract Valuation	<u>20</u> 17
	2A.7	Coupon Payments	<u>22</u> 19
	2A.8	Initial Margin	<u>33</u> 30
	2A.9	Intra-Day Margin Call: Collateral Management	<u>34</u> 31
	2A.10	Declearing and Compression	<u>35</u> 32
	2A.11	Affiliate Clearing	<u>35</u> 32
	2A.12	Transfers of FCM Clients; Defaulting FCM Clients and Affiliates	<u>36</u> 33
	2A.13	Proprietary Account Position Transfers	<u>39</u> 36
	2A.14	Amendment of Trade References	<u>40</u> 37
	2A.15	Default Management	<u>42</u> 39
	2A.16	Payment of Stamp Tax	<u>48</u> 45
	2A.17	Section 696, Corporation Tax Act 2009	<u>48</u> 45
	APPEND	DIX 2A.A	<u>49</u> 46
		SWAPCLEAR PROCESSING SCHEDULE	<u>49</u> 46
	APPEND	DIX 2A.B	<u>50</u> 47
		FCM CLIENT – PARTIAL TRANSFER FORM	<u>50</u> 47
	APPEND	DIX 2A.C	<u>52</u> 49
		FCM CLIENT – FULL TRANSFER FORM	<u>52</u> 49
	APPEND	DIX 2A.D	<u>55</u> 52
		FCM CLIENT TRANSFER – CARRY FCM CLEARING MEMBER REPONSES FORM	55 <del>52</del>
	APPEND	DIX 2A.E	
		CONFIDENTIALITY, NON-DISCLOSURE AND PARTICIPATION THE DEFAULT MANAGEMENT GROUP	
2B	FOREX	CLEAR	_
	2B.1	Introduction and Interpretation	
	2B.2	Users of FCM ForexClear	
I CH.C		imited © 2014 i <del>February M</del>	

<u>FCM F</u>	<u>Procedure</u>	S	Contents
	2B.3	Termination of FX FCM Status	<u>62</u> 59
	2B.4	Service Scope	<u>62</u> 59
	2B.5	Position Accounts	<u>63</u> 60
	2B.6	Financial Accounts	<u>64</u> 61
	2B.7	Novation and Registration	<u>65</u> 62
	2B.8	Trade Validation and Registration	<u>68</u> 65
	2B.9	Market Data	<u>74</u> 71
	2B.10	FCM ForexClear Contract Valuation	<u>77</u> 74
	2B.11	Initial Margin ("IM")	<u>79</u> 76
2B.12	ADDITIO	NAL MARGIN, MER BUFFER, MCE AND INTRADAY MARG	
	2B.13	Initial Margin Management Events Service ("IMMES")	<u>82</u> 79
	2B.14	Intra-Day Margin Call: Collateral Management	<u>83</u> 80
	2B.15	General Margining Process	<u>83</u> 80
	2B.16.	Types of Margin Runs	<u>83</u> 80
	2B.17	Margin Run Process	<u>84</u> 81
	2B.18	Transfer of FCM Clients; Defaulting FCM Clients and Affiliates	<u>85</u> 82
	2B.19	Proprietary Account Position Transfers	<u>89</u> 86
	2B.20	FCM Clearing Member's Client Fund Transfer	<u>89</u> 86
	2B.21	ForexClear Reporting	<u>89</u> 86
	2B.22	Treasury Operations & Collateral Management	<u>91</u> 88
	2B.23	Default Management	<u>92</u> 89
	2B.24	Payment of Stamp Tax	<u>97</u> 94
	2B.25	Section 696, Corporation Tax Act 2009	<u>98</u> 95
2C	ENCLEA	νR	<u>111</u> 108
	2C.1	General Matters	<u>111</u> 108
	2C.2	Freight Division	<u>127</u> 124
	2C.3	Option Exercise and Expiry	<u>130</u> <del>127</del>
2D.	THE FC	M NODAL CLEARING SERVICE	<u>131</u> <del>128</del>
3.	FINANC	IAL TRANSACTIONS	<u>139</u> 136
	3.1	Accounts	<u>139</u> 136
	3.2	Protected Payments System (PPS)	<u>140</u> 137
	3.3	Acceptable Forms Of Collateral	<u>144</u> 141
	3.4	Distribution Of Collateral	<u>144</u> 141
	3.5	Interest And Accommodation Charge Structure	<u>145</u> 142
	3.6	Fees	<u>148</u> 145
	3.7	Default Fund; SwapClear Contributions	<u>149</u> 146
	3.8	Quantifying SwapClear Contributions	<u>149</u> 146
	3.9	Default Fund; ForexClear Contributions	
	3.10	Quantifying ForexClear Contributions	<u>150</u> 147
	3.11	Default Fund Contributions and Loss Distribution Charges: EnCle Service and Nodal Service	
	APPEND	DIX 3A	<u>151</u> 148

CM Procedures	Contents
CIVI Procedures	Contents

		BANK PARTICIPANTS IN THE LONDON PROTECTED	
		PAYMENTS SYSTEM	· · · · · · · · · · · · · · · · · · ·
	APPEN	DIX 3B	<u>152</u> 149
		BANK PARTICIPANTS IN THE LONDON PROTECTED	450440
	ADDEN	PAYMENTS SYSTEM	
	APPEN	DIX 3C	<u>154</u> <del>151</del>
		BANK PARTICIPANTS IN THE US PROTECTED PAYMENTS SYSTEM	<u>154</u> 151
	APPEN	DIX 3D	<u>155</u> <del>152</del>
		MANDATE FOR LCH.CLEARNET LIMITED: CLEARING OPERATIONS	155 <del>152</del>
4.	COLLA	TERAL	<del></del>
	4.1	General Information	
	4.2	Securities	
	4.3	Instructions via the Collateral Management System	
	4.4	Withholding Taxes	
	4.5	References	
	4.6	Contingency arrangements	
	4.7	Return of Unallocated Excess and FCM Buffer	
	4.8	Collateral Value Reports	
	APPEN	DIX 4A	' <del></del>
		FCM Client Account Lodgment Form	· · · · · · · · · · · · · · · · · · ·
	APPEN	DIX 4B	<del></del>
		Contingency FCM House Account Lodgment Form	
	APPEN	DIX 4C	
		Contingency Collateral Release Form	· · · · · · · · · · · · · · · · · · ·
	Append	ix 4D	
	• •	ent Accounts	
5.		SS RECOVERY	<del></del>
•.	5.1	Recovery Situations	
	5.2	Recovery Situations Affecting Members' Offices	
	5.3	Aldgate House Evacuation	
	5.4	Clearing House Data Centre	
	5.5	Compliance with Business Continuity Testing	
6.		L PROCEDURES	
٠.	6.1	Introduction	
	6.2	Decisions In Respect Of Which An Appeal May Be Lodged	
	6.3	Initiating An Appeal	
	6.4	The First Tier Appeal	
	6.5	The Second Tier Appeal	
	6.6	Requests For Review	
	6.7	Market Disorders etc. and Default	
		DIX 6A	
	/ to 1 1 1 1 1	= ·/ · · ·/ · · · · · · · · · · · · · ·	

APPEAL FORM	
APPENDIX 6B	
NOTICE OF FURTHER APPEAL	
7. COMPLAINTS	<u>185</u> 182
7.1 Introduction	<u>185</u> 182
7.2 How To Make A Complaint	<u>185</u> 182
7.3 Internal Investigation And Review By The Clearing House	<u>186</u> 183
7.4 Referral To An Independent Investigator	<u>186<del>183</del></u>
7.5 Procedure For Dealing With The Complaint	<u>187</u> 184
<b>7.6</b> Outcomes	<u>188</u> 185
8. DISCIPLINARY PROCEEDINGS	<u>189</u> 186
8.1 SCOPE OF THIS PROCEDURE	<u>189</u> 186
8.2 INVESTIGATION PROCEDURE	<u>189<del>186</del></u>
8.3 IMMEDIATE MEASURE	<u>194</u> 191
8.4 SANCTIONS	<u>195</u> 192
8.5 DISPUTING A DECISION	<u>195</u> 192
8.6 REPORTING AND PUBLICATION	<u>196</u> 193
8.7 INFRINGEMENT OF APPLICABLE LAW	<u>196</u> 193

#### 2B.8 Trade Validation and Registration

#### 2B.8.1 Process flow description

The Clearing House performs a validation check on each trade submitted by FXPs to ensure that each such trade meets the FCM ForexClear Eligibility Criteria and the Counterparty Technical Validation Check (as defined below) and Incremental Risk Checks (as defined in Section 2B.8.2) required for FCM ForexClear Transactions (together the "Validation Checks").

The fields checked are as follows:

- Counterparties: (a) are both parties submitting trade particulars FXPs and (b) has each FXCCM in whose name the FCM ForexClear Contract is to be registered not been declared a defaulter by the Clearing House? (together, the "Counterparty Technical Validation Check");
- Trade type: is the instrument type an NDF?
- Economic Terms: does the trade include all the Economic Terms (as defined in Part A of Schedule B to the FCM Regulations)?
- Currency Pairs: are the Reference Currency and the Settlement Currency a Currency Pair (as defined in Schedule B to the FCM Regulations)?
- Settlement Currency: is the Settlement Currency USD?
- Trade tenor eligibility: does the scheduled Settlement Date fall on a date: (a) not earlier than three Business Days immediately following the date on which the trade is submitted to the Clearing House for registration (the "Submission Date") and (b) not later than the date falling two calendar years plus two Business Days immediately following the Submission Date? If the FCM ForexClear Transaction arrives after the ForexClear date roll (22.00 hours, London time), the Submission Date is defined as the next good business day.

• Valuation Date and Settlement Date: do the Valuation Date and Settlement Date for the FCM ForexClear Transaction fall on a valid Business Day for the Currency Pair to which the FCM ForexClear Transaction relates? Does the Settlement Date fall on a Business Day after the Valuation Date? The table below shows the relevant Business days for determining the Valuation Date and Settlement Date:<sup>1</sup>

Currency Pair	Business Days for Valuation Date	Relevant City/Cities for Business Day for Valuation Date	Business Days for Settlement Date	Relevant City for Business Day for Settlement Date
USD-BRL	BRS & USD	Any of Rio de Janeiro, Brasilia or São Paulo and New York City	USD	New York City
USD-CLP	USD & CLP	New York and Santiago	USD	New York City
USD-CNY	CNY	Beijing	USD	New York City
USD-COP	USD & COP	New York and Bogata	USD	New York City
USD-IDR	IDR & SGD	Jakarta <del>and</del> Singapore	USD	New York City
USD-INR	INR	Mumbai	USD	New York City
USD-KRW	KRW	Seoul	USD	New York City
USD-MYR	MYR	Kuala Lumpur	USD	New York City
USD-PHP	PHP	Manila	USD	New York City
USD-RUB	USD & RUB	New York and Moscow	USD	New York City
USD-TWD	TWD	Taipei	USD	New York City

Trades that pass the Validation Checks are accepted and two trade records are created for the FCM ForexClear Transaction: one for the FCM ForexClear Contract between the Clearing House and the first FX FCM to the FCM ForexClear

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

Transaction and the other for the FCM ForexClear Contract between the Clearing House and the second FX FCM to the FCM ForexClear Transaction (or the ForexClear Contract between the Clearing House and the ForexClear Clearing Member to the corresponding ForexClear Transaction pursuant to the UK General Regulations).

Provided each FXCCM has sufficient Margin, the Clearing House will send a message via the FCM Approved Trade Source System confirming the registration or, where the trade fails a Validation Check, the trade will be rejected and a status message will be sent to the FCM Approved Trade Source System giving a reason for rejection.

As provided in Section 2B.7, in respect of messages confirming registration, the time of dispatch of such message shall be the Registration Time of that FCM ForexClear Contract.

The account (H or C) and sub-account (if applicable) into which each trade record is booked is derived from the BIC/unique identifier code within the message from the FCM Approved Trade Source System. The BIC links to the FX FCM reference data.

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.

#### 2B.8.2 Incremental Risk Checks

The Clearing House will apply an "Incremental Risk Check" to each individual FCM ForexClear Transaction. The Incremental Risk Check uses a suitable approximation methodology to estimate an FX FCM's Liabilities (including the new FCM ForexClear Transaction) against available Margin (taking into account any MER Buffer and MCE made available by the Clearing House, if any). However, any FCM ForexClear Transaction submitted by that FXCCM that is risk reducing (i.e. results in a reduction of that FX FCM's Liabilities) will always pass the Incremental Risk Check, even if the FX FCM does not have sufficient Margin for its Liabilities.

Both FXCCMs to the FCM ForexClear Transaction must pass the Incremental Risk Check in order for the Clearing House to register two FCM ForexClear Contracts (or one FCM ForexClear Contract and one Non-FCM ForexClear Contract, as applicable) in those FXCCM's names.

If either (or both) FXCCM(s) to an FCM ForexClear Transaction fail(s) the Incremental Risk Check(s), then the FCM ForexClear Transaction will be rejected immediately, and a rejection message will be issued to the FCM Approved Trade Source System indicating which (or both) FXCCM(s) has failed the Incremental Risk Check(s).

### 2B.8.3 Registration

Once it is confirmed that the transaction has passed the Validation Checks for the relevant FXCCMs, the Clearing House:

(a) registers the FCM ForexClear Transaction as two FCM ForexClear Contracts (or one FCM ForexClear Contract and one Non-FCM ForexClear Contract, as applicable) and changes the status for the FCM ForexClear

The Clearing House checks that the cancellation instruction contains a valid ForexClear ID which relates to: (a) an FCM ForexClear Transaction or FCM ForexClear Contract (as the case may be) that has not been previously cancelled; and (b) in the case of an FCM ForexClear Contract only, an FCM ForexClear Contract with respect to which the relevant Valuation Date has not yet occurred.

Where a trade has already been rejected (as a result of having failed a Counterparty Technical Validation Check), the FCM ForexClear Service sends a "CANCEL REJECTED" message to the FCM Approved Trade Source System for the relevant FXPs.

All trade cancellation instructions must pass the Incremental Risk Check. If any FX FCM does not have sufficient Margin for its Liabilities or estimated Liabilities (taking into account any MER Buffer and MCE provided by the Clearing House, if any) at the time of the relevant Incremental Risk Check, 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 FX FCM's Liabilities) will always pass the Incremental Risk Check, even if the FX FCM does not have sufficient Margin for its Liabilities.

#### 2B.8.7 Trade Amendment

No amendment of the financial terms of an FCM ForexClear Transaction or FCM ForexClear Contract is permitted. FX FCMs who wish to change the FCM Client information on a ForexClear Transaction should contact ForexClear Business Operations at 0207 426 3729 for further information.

#### 2B.8.8 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 FCM ForexClear Contract.

On the Valuation Date with respect to each FCM ForexClear Contract, the Settlement Rate will be retrieved from the Settlement Rate Option per Currency Pair in accordance with the relevant EMTA Templates (as referenced in Schedule B to the FCM Regulations). The Market Data provider for Settlement Rates is Reuters.

The FCM ForexClear Service applies the relevant Settlement Rate to FCM ForexClear Contracts using the following criteria:

- Settlement Rate Option source code (as below)
- Valuation Date

72

The table below gives the source codes of the Settlement Rate Options to be used as per the relevant EMTA Template:

Currency Pair	Settlement Rate Option (or as per the relevant EMTA Template as amended from time to time)
USD-BRL	BRL PTAX (BRL09)
USD-CLP	CLP DÓLAR OBS (CLP10)
USD-CNY	CNY SAEC (CNY01)
USD-COP	COP TRM (COP2)
USD-IDR	IDR <del>IVWAP</del> - <u>JISDOR (IDR03IDR04</u> )
USD-INR	INR RBIB (INR01)
USD-KRW	KRW KFTC18 (KRW02)
USD-MYR	MYR PPKM (MYR03)
USD-PHP	PHP PDSPESO (PHP06)
USD-RUB	RUB CME-EMTA (RUB03)
USD-TWD	TWD TAIFX1 (TWD03)

The Clearing House applies the Settlement Rate to all relevant FCM ForexClear Contracts at a predefined time (see Section 2B.8.8 below) following its publication.

The Clearing House calculates the Settlement Currency Amount in the Settlement Currency per FCM ForexClear Contract. FX FCMs can retrieve the Settlement Rate and Settlement Currency Amount in the Settlement Currency via ForexClear Reporting on the ForexClear Service Portal and on MemWeb, which are internet services onto which information is loaded and can be accessed by FX FCMs.

#### 2B.8.9 Valuation Date Event Management: Process flow description

After the Registration Time for an FCM ForexClear Contract, the FCM ForexClear Service links a Settlement Rate Option to it in accordance with the relevant EMTA Template for the Currency Pair.

On the Valuation Date, the Clearing House uses the Settlement Rate for the Currency Pair for the FCM ForexClear Contract when it is published by Reuters, and calculates the Settlement Currency Amount for each FCM ForexClear Contract in the Settlement Currency by applying the relevant Settlement Rate Option as published.

If the Settlement Rate Option set out in the relevant EMTA Template 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.

### 2B.8.10 Settlement

With respect to each FCM ForexClear Contract, the Settlement Currency Amount is calculated by the application of the Settlement Rate to the Notional Amount in accordance with the FCM ForexClear Contract Terms (see Part A of Schedule B to the FCM Regulations).

73

#### Settlement Rate Options:

- Source Reuters.
- Frequency when published (at the times shown in the table in Section 2B.9.3 below).

## Interest Rate Curves:

- Source internal Clearing House
- Frequency at each SwapClear margin run.

## Country Credit Spreads:

- Source Bloomberg.
- Frequency when published.

## USD LIBOR Curve:

- Source SwapClear.
- Frequency at each SwapClear margin run.

#### PAI rates:

- Source LCH Treasury.
- Frequency Daily.

### 2B.9.3 Market Data

Reference Currency	Settlement Rate Option (or as per the relevant EMTA Template as amended from time to time)	Settlement Rate Publication Local Time (or as per the relevant EMTA Template as amended from time to time)
BRL	BRL PTAX (BRL09)	13:15 (São Paolo)
CLP	CLP DÓLAR OBS (CLP10)	10:30 (Santiago)
CNY	CNY SAEC (CNY01)	09:15 (Beijing)
COP	COP TRM (COP02)	10:30 (Bogota)
IDR	IDR <del>IVWAP <u>JISDOR</u> (<del>IDR03</del><u>IDR04</u>)</del>	11:3010:00 (Singapore Jakarta)
INR	INR RBIB (INR01)	12:30 (Mumbai)
KRW	KRW KFTC18 (KRW02)	15:30 (Seoul)
MYR	MYR PPKM (MYR03)	11:10 (Kuala Lumpur)
PHP	PHP PDSPESO (PHP06)	11:30 (Manila)
RUB	RUB CME-EMTA (RUB03)	13:30 (Moscow)
TWD	TWD TAIFX1 (TWD03)	11:00 – 12:00 (Taipei)

76

# **LCH.Clearnet Rule Submission**

# Exhibit C

## **CONTENTS**

GENERAL REGULA	TIONS OF THE CLEARING HOUSE	<u>1</u>
Scope		1
Definitions		2
Regulation 1	Obligations of the Clearing House to each Member	37
Regulation 2	Performance by the Clearing House of its Obligations under the Term Open Contract	ns of an 38
Regulation 3	Novation	39
Regulation 4	Clearing Member Status of the Clearing House	40
Regulation 5	Accounts	41
Regulation 6	Presentation of Particulars of Original Exchange Contracts and Conf	
Regulation 7	Allocation of Original Exchange Contracts	44
Regulation 8	<u>Designation</u>	45
Regulation 9	Registration	46
Regulation 10	Trading Information	47
Regulation 11	Transfer	48
Regulation 12	Margin and Collateral	49
Regulation 13	Premium under Option Contracts and Payments under LIFFE Credit Swap Index Contracts	<u>Default</u> 54
Regulation 14	Official Quotations and Reference Price	<u>55</u>
Regulation 15	Daily Settlement or Marking to Market	<u>56</u>
Regulation 15A	Settlement and Revaluation: Clearing Processing System	<u>58</u>
Regulation 16	Other Modes of Settlement and Revaluation	<u>59</u>
Regulation 17	Exercise of Options	60
Regulation 18	Delivery Contract Arising upon the Exercise of an Option and Event Protection Contracts	<u>61</u>
Regulation 19	Obligation to Make and Accept Tender under Cleared Exchange Cor	ntracts 63
Regulation 19A	Delivery Contracts	<u>65</u>
Regulation 20	Open Contracts Subject to Tender	<u>66</u>
Regulation 21	Arrangements for Delivery and Payment of Price	68
Regulation 22	Restrictions on Clearing House's Obligations and Liability	<u>69</u>
Regulation 23	Arbitration: Cleared Exchange Contracts, Turquoise Derivatives Clear Exchange Contracts, EquityClear Contracts or LCH EnClear OTC Confor Physical Delivery)	ontracts
Regulation 24	Collateral in Event of a Claim	<u>73</u>
Regulation 25	Default of a Member: Substituted Obligation	<u>74</u>
Regulation 26	Market Disorders, Impossibility of Performance, Trade Emergency	<u>75</u>
Regulation 27	Force Maieure	77

<u> </u>	Regulation 28	Invoicing Back	<u> 78</u>
1	Regulation 29	Currency Conversion	80
1	Regulation 30	Disclosure	81
1	Regulation 31	Fees and Other Charges	82
1	Regulation 32	Records	83
1	Regulation 33	Procedures	84
1	Regulation 34	Alteration of Regulations and the Procedures	85
1	Regulation 35	Interpretation of these Regulations	86
1	Regulation 36	Waiver	87
1	Regulation 37	Validity of Regulations and Action	. 88
1	Regulation 38	Governing Law and Jurisdiction	89
1	Regulation 39	Exclusion of Liability	91
<u> </u>	Regulation 39A	Netting	94
LINK	REGULATIONS	S	98
	Regulation 40	Application of Link Regulations	98
_	Regulation 41	Transfer of Contracts on the terms of a Linked Exchange Contract	99
j	Regulation 41A	Transfer to the Clearing House of Participating Exchange Contracts 1	101
_	Regulation 42	Default Affecting Transfer	102
_	Regulation 43	Collateral1	105
_	Regulation 44	Impossibility of Transfer	106
1	Regulation 45	Cross-Margining Regulations1	107
SWA	APCLEAR REGL	JLATIONS1	108
<u>.</u>	Regulation 46	Application of SwapClear Regulations	108
1	Regulation 47	Registration of SwapClear Contracts1	109
_	Regulation 48	Compression1	112
<u> </u>	Regulation 48A	Termination by Automated Service	113
<u> </u>	Regulation 48B	Multilateral Compression	<u>115</u>
_	Regulation 49	SwapClear Dealers1	<u> 119</u>
1	Regulation 50	Collateralisation of SwapClear Contracts	120
_	Regulation 51	The reset rate for, and the net present value of, a SwapClear Contract 1	122
<u>.</u>	Regulation 52	Withdrawal of the SwapClear Service by the Clearing House1	123
j	Regulation 52A	SwapClear Clearing Client Business	124
		Default Management in respect of SwapClear Clearing Client Business 1	
j	Regulation 52C	Transfer1	131
<u>SCH</u>	EDULE TO THE	SWAPCLEAR REGULATIONS1	137
J	Part A	SwapClear Contract Terms1	137
<u> </u>	Part B	Product Eligibility Criteria for Registration of a SwapClear Contract 1	146
REP	OCLEAR REGU	ILATIONS1	158

Regulation 53	Application of RepoClear Regulations	<u> 158</u>
Regulation 54	Submission of details of RepoClear Transactions and RepoClear GC Transactions through an Approved Trade Matching System	159
Regulation 55	Registration of RepoClear Contracts and RepoClear GC Contracts follows Submission of Details of a RepoClear Transaction or RepoClear GC Transaction	wing
Regulation 56	RepoClear transactions entered into by RepoClear Clearing Members through an Automated Trading System	<u> 163</u>
Regulation 56A	RepoClear transactions entered into by RepoClear Dealers through an Automated Trading System	<u> 167</u>
Regulation 57	RepoClear Dealers	<u> 171</u>
Regulation 57A	Authorisation to act as a RepoClear Clearing Member	<u> 172</u>
Regulation 58	Daily Margining of RepoClear Contracts and RepoClear GC Contracts	<u> 173</u>
Regulation 59	Delivery (or Other) Failures	<u> 174</u>
Regulation 60	Withdrawal of RepoClear Service by the Clearing House	<u> 175</u>
SCHEDULE TO THE	E REPOCLEAR REGULATIONS	<u> 176</u>
Part A	RepoClear Contract Terms: RepoClear Contracts arising from RepoClear  Transactions, Repo Trades or Bond Trades	<u>ar</u> 176
Part B	Product Eligibility Criteria for Registration of a RepoClear Contract	<u>182</u>
Part C	LCH GC Repo Contract Terms	<u> 191</u>
Part D	Product Eligibility Criteria for Registration of a LCH GC Repo Contract	<u> 192</u>
Part E	RepoClear SGC Contract Terms: RepoClear SGC Contracts arising from RepoClear SGC Transactions or SGC Trades	
Part F	Product Eligibility Criteria for Registration of a RepoClear SGC Contract	<u> 199</u>
Part G	RepoClear GC Contract Terms: RepoClear €GC Contracts arising from RepoClear €GC Transactions or €GC Trades	<u> 201</u>
Part H	Product Eligibility Criteria for Registration of A RepoClear €GC Contract	<u> 208</u>
EQUITYCLEAR REC	GULATIONS	<u> 213</u>
Regulation 61	Application of EquityClear Regulations	<u> 213</u>
Regulation 62	EquityClear	<u> 214</u>
Regulation 62A	EquityClear (Equities) Open Offer for EquityClear (Equities) ATP Matche	es214
Regulation 62B	EquityClear Novation Transactions	<u> 219</u>
Regulation 62C	EquityClear Open Offer for EquityClear (ccCFD) ATP Matches ("EquityClear (ccCFD) Open Offer")	
Regulation 63	EquityClear NCMs	<u> 228</u>
Regulation 64	Delivery (or Other) Failures	<u> 229</u>
Regulation 65	Suspension of the EquityClear service or the EquityClear Open Offer	<u>230</u>
Regulation 66	Withdrawal of EquityClear Service by the Clearing House	<u> 231</u>
Regulation 67	Rejection of ATP Matches and of EquityClear Novation Transactions	<u> 232</u>
Regulation 67A	Rejection of EquityClear (ccCFD) ATP Matches	233
SCHEDULE TO THE	E EQUITYCLEAR REGULATIONS	234

	Part A	EquityClear (Equities) Contract Terms	234
	Part B	EquityClear Eligible (Equities)	236
	Part C	EquityClear (ccCFD) Contract Terms	237
LC	HENCLEAR OTO	REGULATIONS	241
	Regulation 68	Application of LCH EnClear OTC Regulations	241
	Regulation 69	Registration of LCH EnClear Contracts	242
	Regulation 70	LCH EnClear Contracts	243
	Regulation 71	LCH EnClear Third Party Clearing Participants	244
	Regulation 72	Daily Settlement	245
	Regulation 73	Withdrawal of the LCH EnClear Service by the Clearing House	246
	Regulation 73A	Registration of LCH EnClear OTC Contracts	247
	Regulation 73B	LCH EnClear OTC Contracts	248
	Regulation 73C	Daily Settlement	<u>250</u>
	Regulation 73D	[This provision has been left blank intentionally]	251
	Regulation 73E	Withdrawal of the LCH EnClear OTC Services by the Clearing House	252
SCI	HEDULE TO THE	LCH ENCLEAR OTC REGULATIONS	253
	Part A	LCH EnClear OTC Contract Terms	253
	Part B	Product Eligibility Criteria for Registration of a LCH EnClear OTC Contra	act290
Tur	quoise Derivative	s REGULATIONS	303
	Regulation 74	Application of Regulations for TGHL market	303
	Regulation 75	Turquoise Derivatives Orderbook Matches made on TGHL Market	304
	Regulation 76	Reported Trades and Turquoise Derivatives OTC Trades Reported to Tor Registration	
	Regulation 77	Registration of Turquoise Derivatives Cleared Exchange Contracts followables of Details of a Reported Trade or Turquoise Derivatives OT Trade	C
	Regulation 78	Delivery (or Other) Failures	310
	Regulation 79	Suspension of the Open Offer for Turquoise Derivatives	311
	Regulation 80	Withdrawal of Clearing House Turquoise Derivatives Services by the Clearing House	312
	Regulation 81	Cancellation, variation etc of Turquoise Derivatives Cleared Exchange Contracts	313
	Regulation 82	Rejection of Orderbook Matches	314
	Regulation 83	Cross-Border Transfers to the Clearing House of Contracts Executed by	
		Member of a Co-operating Exchange - Automatic Transfers	<u> 315</u>
	Regulation 84	Default affecting a Cross-Border Transfer	<u> 316</u>
	Regulation 85	Impossibility of Transfer	<u> 317</u>
	Regulation 86	Options	<u> 318</u>
	Regulation 87	Re-registration of Contracts	<u> 319</u>
SCI	HEDULE TO THE	Turquoise Derivatives REGULATIONS	320

Part A	Turquoise Derivatives Cleared Exchange Contract Terms arising from Turquoise Derivatives OTC Trades	_
Part B	Product Eligibility Criteria for Registration of an Turquoise Derivatives	
Tares	Trade	
HKMEx REGULATION	ONS	326
Regulation 88	Introduction and Application	326
Regulation 89	Presentation, allocation of HKMEx Transactions and registration of HI Contracts	<u>KMEx</u> 328
Regulation 90	HKMEx Contracts	330
Regulation 91	Daily Settlement or Marking to Market	331
NODAL REGULATION	ONS	333
Regulation 92	Introduction and Application	333
Regulation 93	Presentation, Allocation of Nodal Transactions and Registration of No Contracts	
Regulation 94	Nodal Contracts	337
Regulation 95	Daily Settlement or Marking to Market	339
NYSE LIFFE CLEAR	RING REGULATIONS	341
Regulation 96	Introduction and Application	341
Regulation 97	NYSE Liffe Clearing Membership	342
Regulation 98	Default of a NYSE Liffe Clearing Member	344
RESERVED		345
Regulation 99	RESERVED	345
Regulation 100	RESERVED	345
Regulation 101	RESERVED	345
Regulation 102	RESERVED	345
FOREXCLEAR REG	ULATIONS	346
Regulation 103	Application of ForexClear Regulations	346
Regulation 104	Registration of ForexClear Contracts	349
Regulation 105	ForexClear Contracts	351
Regulation 106	Cancellation of ForexClear Contracts	353
Regulation 107	ForexClear Dealers	354
Regulation 108	Variation Margin	355
Regulation 108A	Discontinuation of a Settlement Rate Option	<u>356</u>
Regulation 109	Withdrawal of the ForexClear Service by the Clearing House	<u>357</u>
SCHEDULE TO THE	FOREXCLEAR REGULATIONS	358
Part A	ForexClear Contract Terms	358
Part B	Product Eligibility Criteria for Registration of a ForexClear Contract	363
NLX REGULATIONS	3	365
Regulation 110	Introduction and Application	365

Regulation 111	Presentation, Allocation of NLX Transactions and Registration of NLX Contracts	367
Regulation 112	NLX Contracts	
	Daily Settlement or Marking to Market	
	TIONS OF THE CLEARING HOUSE	
	TONO OF THE GEENNING HOUSE.	1
		······
	Obligations of the Clearing House to each Member	27
•	Performance by the Clearing House of its Obligations under the Terms of	
Ü	Open Contract	<del>38</del>
Regulation 3	-Novation	<del> 39</del>
Regulation 4	Clearing Member Status of the Clearing House	<del>40</del>
Regulation 5	Accounts	41
Regulation 6	Presentation of Particulars of Original Exchange Contracts and Confirmation of Original Exchange Contracts	
Regulation 7	-Allocation of Original Exchange Contracts	44
Regulation 8	Designation	45
Regulation 9	Registration	<del> 46</del>
Regulation 10	Trading Information	47
Regulation 11	Transfer	<del>48</del>
Regulation 12—	- Margin and Collateral	<del> 49</del>
Regulation 13	Premium under Option Contracts and Payments under LIFFE Credit Def Swap Index Contracts	fault 54
Regulation 14	Official Quotations and Reference Price	<del> 55</del>
Regulation 15	Daily Settlement or Marking to Market	<del> 56</del>
Regulation 15A-	Settlement and Revaluation: Clearing Processing System	<del> 58</del>
Regulation 16	Other Modes of Settlement and Revaluation	<del> 59</del>
Regulation 17—	Exercise of Options	<del> 60</del>
Regulation 18	Delivery Contract Arising upon the Exercise of an Option and Event Protection Contracts	<del> 61</del>
Regulation 19	Obligation to Make and Accept Tender under Cleared Exchange Contract	ets 63
Regulation 19A	Delivery Contracts	<del>65</del>
Regulation 20	Open Contracts Subject to Tender	<del> 66</del>
Regulation 21	Arrangements for Delivery and Payment of Price	<del>68</del>
Regulation 22	Restrictions on Clearing House's Obligations and Liability	<del> 69</del>
Regulation 23	Arbitration: Cleared Exchange Contracts, Turquoise Derivatives Cleared Exchange Contracts, EquityClear Contracts or LCH EnClear OTC Contracts (for Physical Delivery)	acts
Regulation 24	Collateral in Event of a Claim	<del> 73</del>
Regulation 25	Default of a Member: Substituted Obligation	<del> 7</del> 4

	Regulation 26	Market Disorders, Impossibility of Performance, Trade Emergency	<del> 75</del>
	Regulation 27	Force Majeure	<del> 77</del>
	Regulation 28	Invoicing Back	<del> 78</del>
	Regulation 29	Currency Conversion	<del> 80</del>
	Regulation 30	Disclosure	<del> 81</del>
	Regulation 31	Fees and Other Charges	<del> 82</del>
	Regulation 32	Records	<del> 83</del>
	Regulation 33	Procedures	<del> 84</del>
	Regulation 34	Alteration of Regulations and the Procedures	<del> 85</del>
	Regulation 35	Interpretation of these Regulations	<del> 86</del>
	Regulation 36	- Waiver	<del> 87</del>
	Regulation 37	Validity of Regulations and Action	<del> 88</del>
	Regulation 38	Governing Law and Jurisdiction	<del> 89</del>
	Regulation 39	Exclusion of Liability	<del> 91</del>
	Regulation 39A	Netting	94
LIN	IK REGULATIONS	S	<del> 98</del>
	Regulation 40	Application of Link Regulations	<del> 98</del>
	Regulation 41	Transfer of Contracts on the terms of a Linked Exchange Contract	99
	Regulation 41A	-Transfer to the Clearing House of Participating Exchange Contracts	<del>. 101</del>
	Regulation 42	Default Affecting Transfer	<del>. 102</del>
	Regulation 43	Collateral	<del>. 105</del>
	Regulation 44	Impossibility of Transfer	<del>. 106</del>
	Regulation 45	Cross-Margining Regulations	<del>. 107</del>
SW	APCLEAR REGU	ILATIONS	. 108
	Regulation 46	-Application of SwapClear Regulations	<del>. 108</del>
	Regulation 47	Registration of SwapClear Contracts	<del>. 109</del>
	Regulation 48	Compression	. 112
	Regulation 48A	-Termination by Automated Service	. 113
		Multilateral Compression	
	Regulation 49	SwapClear Dealers	. 119
	Regulation 50	Collateralisation of SwapClear Contracts	<del>. 120</del>
	Regulation 51	The reset rate for, and the net present value of, a SwapClear Contract	. 122
	Regulation 52	-Withdrawal of the SwapClear Service by the Clearing House	<del>. 123</del>
	Regulation 52A	SwapClear Clearing Client Business	. 124
		Default Management in respect of SwapClear Clearing Client Business	
	Regulation 52C	-Transfer	<del>. 131</del>
SC	HEDULE TO THE	SWAPCLEAR REGULATIONS	. 137
	Part A	SwapClear Contract Terms	<del>. 137</del>

Part B	Product Eligibility Criteria for Registration of a SwapClear Contract	<del>-146</del>
REPOCLEAR REGU	JLATIONS	<del>158</del>
Regulation 53	Application of RepoClear Regulations	<del>158</del>
Regulation 54	Submission of details of RepoClear Transactions and RepoClear GC Transactions through an Approved Trade Matching System	<del>-159</del>
Regulation 55	Registration of RepoClear Contracts and RepoClear GC Contracts follow Submission of Details of a RepoClear Transaction or RepoClear GC Transaction	<del>ing</del> -161
Regulation 56	RepoClear transactions entered into by RepoClear Clearing Members through an Automated Trading System	<del>-163</del>
Regulation 56A	RepoClear transactions entered into by RepoClear Dealers through an Automated Trading System	<del>-167</del>
Regulation 57	RepoClear Dealers	171
Regulation 57A	Authorisation to act as a RepoClear Clearing Member	<del>172</del>
Regulation 58	Daily Margining of RepoClear Contracts and RepoClear GC Contracts	<del>173</del>
Regulation 59	Delivery (or Other) Failures	174
Regulation 60	Withdrawal of RepoClear Service by the Clearing House	<del>175</del>
SCHEDULE TO THE	E REPOCLEAR REGULATIONS	<del>176</del>
Part A	RepoClear Contract Terms: RepoClear Contracts arising from RepoClear Transactions, Repo Trades or Bond Trades	<u>.</u> -176
Part B	Product Eligibility Criteria for Registration of a RepoClear Contract	182
Part C	LCH GC Repo Contract Terms	191
Part D	Product Eligibility Criteria for Registration of a LCH GC Repo Contract	<del>-192</del>
Part E	RepoClear SGC Contract Terms: RepoClear SGC Contracts arising from RepoClear SGC Transactions or SGC Trades	<del>193</del>
Part F	Product Eligibility Criteria for Registration of a RepoClear SGC Contract	<del>199</del>
Part G	RepoClear GC Contract Terms: RepoClear €GC Contracts arising from RepoClear €GC Transactions or €GC Trades	201
Part H	Product Eligibility Criteria for Registration of A RepoClear €GC Contract	<del>208</del>
EQUITYCLEAR REC	GULATIONS	213
Regulation 61	Application of EquityClear Regulations	213
Regulation 62	- EquityClear	214
Regulation 62A	EquityClear (Equities) Open Offer for EquityClear (Equities) ATP Matches	<del>214</del>
Regulation 62B	EquityClear Novation Transactions	219
Regulation 62C	EquityClear Open Offer for EquityClear (ccCFD) ATP Matches ("EquityClear (ccCFD) Open Offer")	ear 224
Regulation 63	- EquityClear NCMs	228
Regulation 64	Delivery (or Other) Failures	229
Regulation 65	Suspension of the EquityClear service or the EquityClear Open Offer	<del>230</del>
Regulation 66	Withdrawal of EquityClear Service by the Clearing House	<del>231</del>
Regulation 67	Rejection of ATP Matches and of EquityClear Novation Transactions	232

Regulation 67A	<del>- Rejection of EquityClear (ccCFD) ATP Matches</del>	<del> 233</del>
SCHEDULE TO THE	EQUITYCLEAR REGULATIONS	<del> 234</del>
Part A	-EquityClear (Equities) Contract Terms	<del> 23</del> 4
Part B	EquityClear Eligible (Equities)	<del> 236</del>
Part C	-EquityClear (ccCFD) Contract Terms	237
LCH ENCLEAR OTO	REGULATIONS	241
Regulation 68	Application of LCH EnClear OTC Regulations	241
Regulation 69	Registration of LCH EnClear Contracts	<del> 242</del>
Regulation 70	LCH EnClear Contracts	<del> 243</del>
Regulation 71	LCH EnClear Third Party Clearing Participants	<del> 244</del>
Regulation 72	Daily Settlement	24 <del>5</del>
Regulation 73	Withdrawal of the LCH EnClear Service by the Clearing House	<del> 246</del>
Regulation 73A	Registration of LCH EnClear OTC Contracts	247
Regulation 73B	LCH EnClear OTC Contracts	<del> 248</del>
Regulation 73C	Daily Settlement	<del> 250</del>
Regulation 73D	[This provision has been left blank intentionally]	<del> 251</del>
Regulation 73E	-Withdrawal of the LCH EnClear OTC Services by the Clearing House	<del> 252</del>
SCHEDULE TO THE	LCH ENCLEAR OTC REGULATIONS	253
Part A	LCH EnClear OTC Contract Terms	253
Part B	Product Eligibility Criteria for Registration of a LCH EnClear OTC Contri	act290
Turquoise Derivative	s REGULATIONS	303
Regulation 74	Application of Regulations for TGHL market	303
Regulation 75	Turquoise Derivatives Orderbook Matches made on TGHL Market	304
Regulation 76	Reported Trades and Turquoise Derivatives OTC Trades Reported to T	GHL 308
Regulation 77	Registration of Turquoise Derivatives Cleared Exchange Contracts follo Submission of Details of a Reported Trade or Turquoise Derivatives OT Trade	
Regulation 78	-Delivery (or Other) Failures	<del> 310</del>
Regulation 79	Suspension of the Open Offer for Turquoise Derivatives	<del> 311</del>
Regulation 80	Withdrawal of Clearing House Turquoise Derivatives Services by the Clearing House	312
Regulation 81	Cancellation, variation etc of Turquoise Derivatives Cleared Exchange Contracts	313
Regulation 82	Rejection of Orderbook Matches	314
Regulation 83	Cross-Border Transfers to the Clearing House of Contracts Executed by Member of a Co-operating Exchange - Automatic Transfers	<del>y a</del> 315
Description 04	Monibor of a 66 operating Exonaring Tratornatio Transferon	
<del>Regulation 84</del>	Default affecting a Cross-Border Transfer	
		<del> 316</del>

Regulation 87	Re-registration of Contracts	<del> 319</del>
SCHEDULE TO THE	Turquoise Derivatives REGULATIONS	<del> 320</del>
Part A	Turquoise Derivatives Cleared Exchange Contract Terms arising from	
	Turquoise Derivatives OTC Trades	<del> 320</del>
Part B	Product Eligibility Criteria for Registration of an Turqueise Derivatives C	TC 324
HKMEx REGULATION	NS	326
Regulation 88	-Introduction and Application	326
•	Presentation, allocation of HKMEx Transactions and registration of HKM	ΛΕ <sub>×</sub>
. rogalation co	Contracts	328
Regulation 90	HKMEx Contracts	330
Regulation 91	Daily Settlement or Marking to Market	331
NODAL REGULATION	ONS	333
Regulation 92	Introduction and Application	333
Regulation 93	Presentation, Allocation of Nodal Transactions and Registration of Nodal Contracts	al 335
Regulation 94	Nodal Contracts	337
Regulation 95	Daily Settlement or Marking to Market	339
NYSE LIFFE CLEAR	ING REGULATIONS	341
Regulation 96	Introduction and Application	341
Regulation 97	NYSE Liffe Clearing Membership	342
Regulation 98	Default of a NYSE Liffe Clearing Member	344
RESERVED		345
Regulation 99	RESERVED	345
Regulation 100	RESERVED	345
Regulation 101	RESERVED	345
Regulation 102	RESERVED	345
FOREXCLEAR REG	ULATIONS	346
Regulation 103	Application of ForexClear Regulations	346
Regulation 104	Registration of ForexClear Contracts	349
Regulation 105	ForexClear Contracts	351
Regulation 106	Cancellation of ForexClear Contracts	353
Regulation 107	ForexClear Dealers	354
Regulation 108	-Variation Margin	<del> 355</del>
Regulation 109	Withdrawal of the ForexClear Service by the Clearing House	356
SCHEDULE TO THE	FOREXCLEAR REGULATIONS	357
Part A	ForexClear Contract Terms	<del> 357</del>
Part B	Product Eligibility Criteria for Registration of a ForexClear Contract	<del> 362</del>
NI X REGULATIONS		364

Regulation 110	Introduction and Application	364
_	Presentation, Allocation of NLX Transactions and Registration of NLX Contracts	
Regulation 112	NLX Contracts	368
Regulation 113	Daily Settlement or Marking to Market	370

#### Regulation 108A Discontinuation of a Settlement Rate Option

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(a) If:

- (i) the administrator of a benchmark that is a Settlement Rate Option has publicly announced that it will discontinue publication of the benchmark ("Discontinued Rate"); and
- (ii) ISDA has published a "Multilateral Amendment Agreement" to amend certain transactions to use an alternative benchmark ("Substitute Rate") in the lieu of the Discontinued Rate on and from a specified date ("Effective Date"),

then, in respect of a ForexClear Contract in respect of which a Settlement Rate has not been determined as at the Effective Date and which references the Discontinued Rate ("Affected ForexClear Contract"), the Clearing House may, by written notice to all ForexClear Clearing Members, amend the Settlement Rate Option of each Affected ForexClear Contract to reference the Substitute Rate with effect on and from the Effective Date and specify such incidental amendments to the Affected ForexClear Contract as may be required.

The terms "ISDA", "Settlement Rate Option" and "Valuation Date" have the meanings given to them by the ForexClear Contract Terms.

(b) The accidental omission to give notice under this provision to, or the non-receipt of notice by, any ForexClear Clearing Member shall not invalidate the amendment with which the notice is concerned.

# **LCH.Clearnet Rule Submission**

# **Exhibit D**

## **CONTENTS**

FCM REGULATION	ONS OF THE CLEARING HOUSE	1
Definitions		<u> 2</u>
PART I – REGUL	ATIONS OF GENERAL APPLICABILITY	. 21
Regulation 1	Obligations of the Clearing House to each FCM Clearing Member	21
Regulation 2	Performance by the Clearing House of its Obligations under the Terms of an Open Contract; Novation	. 22
Regulation 3	FCM Clearing Member Status of the Clearing House and Application of LCH Regulations	. 23
Regulation 4	FCM Client Business and FCM Client Account Segregation	
Regulation 5	Proprietary Accounts and Trading	41
Regulation 6	Certain General Provisions Applicable to Accounts	. 42
Regulation 7	Trading Information	44
Regulation 8	Transfer	. 45
Regulation 9	Margin and Collateral Generally; Other Obligations	50
Regulation 10	Official Quotations and Reference Price; Settlement and Revaluation	63
Regulation 11	Market Disorders, Impossibility of Performance, Trade Emergency	64
Regulation 12	Force Majeure	66
Regulation 13	Invoicing Back	67
Regulation 14	Currency Conversion	69
Regulation 15	Disclosure	. 70
Regulation 16	Fees and Other Charges	. 71
Regulation 17	Records	. 72
Regulation 18	FCM Procedures	73
Regulation 19	Alteration of FCM Regulations and the FCM Procedures	74
Regulation 20	Interpretation of these FCM Regulations	75
Regulation 21	Waiver	<u>. 76</u>
Regulation 22	Validity of FCM Regulations and Action	. 77
Regulation 23	Governing Law and Jurisdiction	78
Regulation 24	Exclusion of Liability	<u>79</u>
Regulation 24A	Netting	. 80
Regulation 24B	Distribution of Assets	82
Regulation 25	Acknowledgements and Agreements of FCM Clients and Affiliates	. 83
Regulation 26	FCM Exchange Contracts	<u>85</u>
Regulation 26A	Exercise of Options	86
Regulation 26B	Physically-Settled FCM Exchange Contract Arising upon the Exercise of an Option	. 87
Regulation 26D	Obligation to Make and Accept Delivery Notice under FCM Exchange Contracts	. 90

Regulation 26E	Physically-Settled FCM Exchange Contracts not Requiring Delivery Notice	93
Regulation 26F	FCM Exchange Contracts Subject to Delivery Notice	
Regulation 26G	Arrangements for Delivery and Payment of Price (Physically-Settled	
	FCM Exchange Contracts)	<u>96</u>
Regulation 26H	Restrictions on Clearing House's Obligations and Liability	<u> 98</u>
Regulation 26I	Arbitration: FCM Exchange Contracts	<u> 99</u>
Regulation 26J	Cover in Event of a Claim	<u>. 101</u>
Regulation 26K	Default of a Member: Substituted Obligation	. 102
Regulation 26L	Premium Under Option Contracts	<u>. 103</u>
PART II – REGU	LATIONS APPLICABLE TO FCM SWAPCLEAR CONTRACTS	. 105
Regulation 30	Registration of FCM SwapClear Contracts; Novation and Post- Novation Compression; SwapClear Accounts	105
Regulation 31	Daily Marking to Market	
Regulation 32	The reset rate for, and the net present value of, an FCM SwapClear	. 110
<u>rregulation 32</u>	Contract	<u>. 114</u>
Regulation 33	Withdrawal of the FCM SwapClear Service by the Clearing House	<u>. 115</u>
PART III – REGU	JLATIONS APPLICABLE TO FCM FOREXCLEAR CONTRACTS	<u>. 117</u>
Regulation 40	Registration of FCM ForexClear Contracts; ForexClear Accounts	<u>. 117</u>
Regulation 41	Cancellation of FCM ForexClear Contracts	. 122
Regulation 42	Variation Margin	. 123
Regulation 43	Withdrawal of the FCM ForexClear Service by the Clearing House	. 124
Regulation 44	Discontinuation of a Settlement Rate Option	. 125
Regulation 50	Registration of FCM EnClear Contracts	. 127
Regulation 51	FCM EnClear Contracts	. 128
Regulation 52	Daily Settlement	. 130
Regulation 53	Withdrawal of the FCM EnClear Service by the Clearing House	. 131
PART V – <b>REGU</b>	LATIONS APPLICABLE TO FCM NODAL CONTRACTS	. 133
Regulation 60	Presentation, Allocation of Nodal Transactions and Registration of	
	Nodal Contracts; Treatment of FCM Client Funds in Connection with FCM Nodal Transactions and FCM Nodal Contracts	. 133
Regulation 61	Nodal Contracts	
	Daily Settlement or Marking to Market	
	FCM SWAPCLEAR CONTRACT TERMS AND PRODUCT	
	ELIGIBILITY CRITERIA	<u>1</u>
SCHEDULE B -	FCM FOREXCLEAR CONTRACT TERMS AND PRODUCT  ELIGIBILITY CRITERIA	1
SCHEDULF C -	FCM ENCLEAR CONTRACT TERMS AND PRODUCT ELIGIBILITY	
20.125022	CRITERIA	<u>1</u>
ECM PECHIATI	ONS OF THE CLEADING HOUSE	1

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Definitions		<del> 2</del>	Formatted: Default Para	graph Font
PART I REGUI	ATIONS OF GENERAL APPLICABILITY	<del> 21</del>	Formatted: Default Para	graph Font
Regulation 1	Obligations of the Clearing House to each FCM Clearing Member	<del> 21</del>	Formatted	
Regulation 2	Performance by the Clearing House of its Obligations under the		Formatted	
	Terms of an Open Contract; Novation	<del> 22</del>		
Regulation 3	FCM Clearing Member Status of the Clearing House and Application		Formatted	
De male de m. 4		23		
Regulation 4	FCM Client Business and FCM Client Account Segregation	<del> 26</del>	Formatted	(
Regulation 5	Proprietary Accounts and Trading	<del> 41</del>	Formatted	(
Regulation 6	Certain General Provisions Applicable to Accounts	<del> 42</del>	Formatted	
Regulation 7	Trading Information	44	Formatted	
Regulation 8		<del> 45</del>	Formatted	
Regulation 9	Margin and Collateral Generally; Other Obligations	<del> 50</del>	Formatted	
Regulation 9A	Margining of Swap Product Client Accounts: Certain Additional		Formatted	
<b>5</b> 1 4 46	Provisions; Without Client Excess Model; With Client Excess Model			
Regulation 10	Official Quotations and Reference Price; Settlement and Revaluation.	<del> 63</del>	Formatted	
Regulation 11	, , , , , , , , , , , , , , , , , , , ,	<del> 64</del>	Formatted	
Regulation 12	Force Majeure	66	Formatted	
Regulation 13	_Invoicing Back	<del> 67</del>	Formatted	
Regulation 14	Currency Conversion	<del> 69</del>	Formatted	
Regulation 15	, Disclosure	<del> 70</del>	Formatted	
Regulation 16	Fees and Other Charges	<del> 71</del>	Formatted	
Regulation 17	Records	<del> 72</del>	Formatted	
Regulation 18	FCM Procedures	73	Formatted	
Regulation 19	Alteration of FCM Regulations and the FCM Procedures	74	Formatted	
Regulation 20	Interpretation of these FCM Regulations	<del> 75</del>	Formatted	(
Regulation 21	Waiver	<del> 76</del>	Formatted	(
Regulation 22	Validity of FCM Regulations and Action	<del>77</del>	Formatted	(
Regulation 23	Governing Law and Jurisdiction	<del> 78</del>	Formatted	
Regulation 24	Exclusion of Liability	<del> 79</del>	Formatted	
Regulation 24A	Netting	<del> 80</del>	Formatted	(
	Distribution of Assets	<del> 82</del>	Formatted	
	Acknowledgements and Agreements of FCM Clients and Affiliates		Formatted	(
	FCM Exchange Contracts	85	Formatted	
	Exercise of Options	86	Formatted	
	Physically-Settled FCM Exchange Contract Arising upon the Exercise		Formatted	<u> </u>
A Cogalation 20B	of an Option	87	Tormatted	(
Regulation 26D	Obligation to Make and Accept Delivery Notice under FCM Exchange		Formatted	
	Contracts	90		(

Regulation 26E	Physically-Settled FCM Exchange Contracts not Requiring Delivery
	Netice 93
Regulation 26F	FCM Exchange Contracts Subject to Delivery Notice
Regulation 26G	Arrangements for Delivery and Payment of Price (Physically-Settled
	FCM Exchange Contracts) 96
Regulation 26H	Restrictions on Clearing House's Obligations and Liability98
Regulation 26I	Arbitration: FCM Exchange Contracts
Regulation 26J	Cover in Event of a Claim
Regulation 26K	Default of a Member: Substituted Obligation
Regulation 26L	Premium Under Option Contracts 103
PART II – REGU	LATIONS APPLICABLE TO FCM SWAPCLEAR CONTRACTS 105
Regulation 30	Registration of FCM SwapClear Contracts; Novation and Post-
	Novation Compression; SwapClear Accounts 105
Regulation 31	
Regulation 32	The reset rate for, and the net present value of, an FCM SwapClear
Regulation 33	Withdrawal of the FCM SwapClear Service by the Clearing House 115
PART III REGU	JLATIONS APPLICABLE TO FCM FOREXCLEAR CONTRACTS 117
Regulation 40	Registration of FCM ForexClear Contracts; ForexClear Accounts 117
Regulation 41	Cancellation of FCM ForexClear Contracts 122
Regulation 41 Regulation 42	Cancellation of FCM ForexClear Contracts 122 Variation Margin 123
Regulation 42 Regulation 43	Variation Margin 123
Regulation 42 Regulation 43	Variation Margin 123 Withdrawal of the FCM ForexClear Service by the Clearing House 124
Regulation 42 Regulation 43 PART IV - REGU	
Regulation 42 Regulation 43 PART IV – REGULATION 50	Variation Margin
Regulation 42 Regulation 43 PART IV – REGU Regulation 50 Regulation 51 Regulation 52	Variation Margin
Regulation 42 Regulation 43 PART IV – REGULATION 50 Regulation 51 Regulation 52 Regulation 53	Variation Margin
Regulation 42 Regulation 43 PART IV – REGULATION 50 Regulation 51 Regulation 52 Regulation 53	Variation Margin
Regulation 42 Regulation 43 PART IV — REGULATION 50 Regulation 51 Regulation 52 Regulation 53 PART V REGULATION REGULATION 53	Wariation Margin
Regulation 42 Regulation 43 PART IV – REGU Regulation 50 Regulation 51 Regulation 52 Regulation 53 PART V REGU Regulation 60	Variation Margin
Regulation 42 Regulation 43 PART IV — REGULATION 50 Regulation 51 Regulation 52 Regulation 53 PART V — REGULATION 60 Regulation 60 Regulation 61	Wariation Margin
Regulation 42 Regulation 43 PART IV — REGULATION 50 Regulation 51 Regulation 52 Regulation 53 PART V REGULATION 60 Regulation 60 Regulation 61 Regulation 62	Wariation Margin
Regulation 42 Regulation 43 PART IV — REGULATION 50 Regulation 51 Regulation 52 Regulation 53 PART V REGULATION 60 Regulation 60 Regulation 61 Regulation 62	Wariation Margin
Regulation 42 Regulation 43 PART IV – REGU Regulation 50 Regulation 51 Regulation 52 Regulation 53 PART V REGU Regulation 60 Regulation 61 Regulation 62 SCHEDULE A	Wariation Margin
Regulation 42 Regulation 43 PART IV – REGU Regulation 50 Regulation 51 Regulation 52 Regulation 53 PART V REGU Regulation 60 Regulation 61 Regulation 62 SCHEDULE A	Variation Margin

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### Regulation 44 Discontinuation of a Settlement Rate Option

- (a) If:
  - (i) the administrator of a benchmark that is a Settlement Rate Option has publicly announced that it will discontinue publication of the benchmark ("Discontinued Rate"); and
  - (ii) ISDA has published a "Multilateral Amendment Agreement" to amend certain transactions to use an alternative benchmark ("Substitute Rate") in the lieu of the Discontinued Rate on and from a specified date ("Effective Date"),

then, in respect of a FCM ForexClear Contract in respect of which a Settlement Rate has not been determined as at the Effective Date and which references the Discontinued Rate ("Affected FCM ForexClear Contract"), the Clearing House may, by written notice to all FCM ForexClear Clearing Members, amend the Settlement Rate Option of each Affected FCM ForexClear Contract to reference the Substitute Rate with effect on and from the Effective Date and specify such incidental amendments to the Affected FCM ForexClear Contract as may be required

The terms "ISDA", "Settlement Rate Option" and "Valuation Date" have the meanings given to them by the FCM ForexClear Contract Terms.

(b) The accidental omission to give notice under this provision to, or the non-receipt of notice by, any FCM ForexClear Clearing Member shall not invalidate the amendment with which the notice is concerned.

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Regulations 4445-49: [Reserved]