



NOTICE TO MEMBERS

No. 2017 – 108

July 11, 2017

SELF-CERTIFICATION

AMENDMENTS TO SECTIONS A-102, A-1A09, RULE A-6 AND DEFAULT MANUAL, AND NEW SECTION A-411 AND NEW RULE A-10 OF THE CANADIAN DERIVATIVES CLEARING CORPORATION

On February 7, 2017, the Board of Directors of the Canadian Derivatives Clearing Corporation (CDCC) approved amendments to Sections A-102, A-1A09, Rule A-6 as well as to the Default Manual, and approved the adoption of Section A-411 and Rule A-10 of CDCC's Rules establishing the Corporation's Recovery Powers (Recovery Rules Phase 1). CDCC wishes to inform the Clearing Members that these amendments have been self-certified pursuant to the self-certification process set forth in the *Derivatives Act* (C.Q.L.R., c I-14.01) and approved by the Ontario Securities Commission in accordance with the "Rule Change Requiring Approval in Ontario" process.

The purpose of the proposed amendments is to introduce and clarify certain notions governing the default management process, clarify the resignation process of a Clearing Member and establish and document the recovery power granted to CDCC in the course of its Default Management process leading to a Recovery Process.

You will find attached hereto the amendments set to come into force and to be incorporated into the version of the Rules, Operations Manual and Risk Manual of CDCC that will be made available on the CDCC website at www.cdcc.ca as of July 11, 2017.

If you have any questions or concerns regarding this notice, please contact CDCC's Corporate Operations department or direct your email inquiries to cdcc-ops@tmx.com.

Glenn Goucher
President and Chief Clearing Officer

Canadian Derivatives Clearing Corporation

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APPENDIX 2

(CLEAN)

SECTIONS A-102, A-1A09, A-411, RULE A-6 AND NEW RULE A-10

SECTION A-102 DEFINITIONS

- “Default Management Period” has the meaning attributed thereto in Section A-411.
- “Default Management Period End Date” has the meaning attributed thereto in Section A-411.
- “Recovery Event” has the meaning attributed thereto in Section A-1002.
- “Recovery Losses” has the meaning attributed thereto in Section A-1004.
- “Recovery Loss Cash Payment” has the meaning attributed thereto in Section A-1006.
- “Recovery Power” has the meaning attributed thereto in Section A-1001.
- “Recovery Process” has the meaning attributed thereto in Section A-1003.

(...)

SECTION A-1A09 VOLUNTARY WITHDRAWAL

- 1) A Clearing Member may at any time notify ~~EDCC~~the Corporation that it wishes to withdraw its Membership, by giving a minimum of 30 days’ prior written notice. The Clearing Member shall cease to be a Clearing Member at the later of the expiry of such notice period or the time determined by ~~EDCC~~the Corporation at which all of the Clearing Member’s obligations have been satisfied and any requirements for withdrawal have been met, including obligations related to the winding down of all the Clearing Member’s activities. The withdrawal of any Clearing Member which has given a notice of withdrawal but whose withdrawal has not been completed at the commencement of a Default Management Period shall be stayed for the duration of the Default Management Period and such Clearing Member shall cease to be a Clearing Member at the time at which the Corporation determines that all the Clearing Member’s obligation have been satisfied-
- 2) ~~EDCC~~The Corporation shall give notice to all Clearing Members that the Clearing Member has given notice of its intention to withdraw its Membership.
- 3) If the withdrawal notice is given by a Non-Conforming Clearing Member, the Corporation shall promptly notify the Board, the other Clearing Members, the Exchanges, such Clearing Member’s applicable self-regulatory organization or agency, any regulatory agency having oversight over the Corporation and such other Entities as the Corporation may consider appropriate, that it has received notice of the Clearing Member’s withdrawal from membership in the Corporation.

RULE A-4 ENFORCEMENT

(...)

SECTION A- 411 -DEFAULT MANAGEMENT PERIOD

- 1) A Default Management Period means the period
 - (i) commencing on the day that ~~EDCC~~the Corporation declares the suspension of a Clearing Member, and
 - (ii) concluding on the Default Management End Date.

provided however, that if ~~EDCC~~the Corporation declares the suspension of a Clearing Member when a Default Management Period is ongoing due to the prior suspension of another Clearing Member, multiple Clearing Members' suspensions will be processed in a single Default Management Period.
- 2) The Default Management Period End Date shall occur on the Business Day following the declaration by ~~EDCC~~the Corporation that:
 - (i) the obligations, losses or expenses incurred or sustained by the Corporation in connection with the suspension(s) of Non-Conforming Member(s) are known or can reasonably be determined and have been satisfied or otherwise settled; or
 - (ii) any of the actions, rights or remedies available to ~~EDCC~~the Corporation with respect to the suspension of any Clearing Member that were deemed necessary by ~~EDCC~~the Corporation have been taken; and
 - (iii) the Default Management Period with respect to the suspended Clearing Member(s) has been completed.

RULE A-6 CLEARING FUND DEPOSITS

SECTION A-601 CLEARING FUND MAINTENANCE AND PURPOSE

- 1) The Corporation shall establish a Clearing Fund relating to all Transactions cleared by the Corporation. Each Clearing Member admitted to clear Transactions at the Corporation shall maintain a deposit in the Clearing Fund of the amounts from time to time required by the Rules. The Clearing Fund shall be used for the purposes set out in Section A-609 and Subsection A-701(2).

The Clearing Fund Base Deposits are as follows:

- a) Options Clearing Base Deposit - \$25,000 Cash or equivalent value (as set out in Section A-608) of Acceptable Treasury Bills.

- b) Futures Clearing Base Deposit - \$75,000 Cash or equivalent value (as set out in Section A-608) of Acceptable Treasury Bills.
- c) OTCI Clearing Base Deposit(other than Fixed Income Transactions) - \$100,000 Cash or equivalent value (as set out in Section A-608) of Acceptable Treasury Bills.
- d) Fixed Income Transactions Clearing Base Deposit - \$1,000,000 Cash or equivalent value (as set out in Section A-608) of Acceptable Treasury Bills.

SECTION A-602 AMOUNT OF CLEARING FUNDS

The Clearing Fund is constituted of the aggregate amount of the Clearing Fund deposits required by each Clearing Members at the close of each calendar month as Base Deposit and Variable Deposit. The amount required to be deposited by each Clearing Member to the Clearing Fund shall be calculated according to Section A-603. Unless otherwise specified, the Clearing Fund shall not include any deposit made in excess of the amount of the Clearing Fund deposits required by each Clearing Member.

SECTION A-603 AMOUNT OF DEPOSIT

- 1) The required deposit of each Clearing Member to the Clearing Fund shall be an amount equal to the total of:
 - a) an Options Clearing Base Deposit, if the Clearing Member has been accepted to clear Options;
 - b) a Futures Clearing Base Deposit, if the Clearing Member has been accepted to clear Futures;
 - c) an OTCI Clearing Base Deposit, if the Clearing Member has been accepted to clear OTCI transactions other than Fixed Income Transactions;
 - d) a Fixed Income Transactions Clearing Base Deposit, if the Clearing Member has been accepted to clear Fixed Income Transactions; and
 - e) a Variable Deposit equal to the amount by which (i) the Clearing Member's contribution, in accordance with the methodology set out in the Risk Manual, to the Corporation's Uncovered Residual Risk exceeds (ii) such Clearing Member's Base Deposits.
- 2) Within a calendar month, if the Corporation determines that an increase to the Variable Deposit is necessary to protect its financial integrity, the Corporation will notify with a Clearing Fund statement the concerned Clearing Member(s) which shall increase in the determined amount and approved form its contribution to the Clearing Fund no later than 2:00 p.m. on the following Business Day.

SECTION A-604 CHANGES IN REQUIREMENT

The amount of Base and Variable Deposits required to be made by Clearing Members may be modified from time to time by the Corporation as a result of an amendment to the Rules. If the deposit to the Clearing Fund required to be made by a Clearing Member is thereby increased, the increase shall not become effective until the Clearing Member is given 3 Business Days prior written notice of such amendment. Unless a Clearing Member notifies the Corporation in writing that it wishes to withdraw its membership and closes out or transfers all of its aggregate positions in the relevant instrument before the effective date of such amendment, such Clearing Member shall be liable to make the increased deposit.

SECTION A-605 CLEARING FUND STATEMENT

On the first Business Day of each calendar month, the Corporation shall issue to each Clearing Member a Clearing Fund statement that shall list the current amount of such Clearing Member's deposits to the Clearing Fund and the amount of deposit required of such Clearing Member. Any surplus over and above the amount required or any deficit to be satisfied will also be shown. A Clearing Fund statement will also be issued intra-monthly if an increase to the Variable Deposit is necessary. The concerned Clearing Member will have until no later than 2:00 p.m. on the next Business Day to remediate any deficit.

SECTION A-606 ADDITIONAL CLEARING FUND DEPOSIT

Whenever a Clearing Member's Clearing Fund statement shows a deficit, such Clearing Member shall satisfy the deficit by a deposit in a form approved by the Corporation no later than 2:00 p.m. on the Business Day following the issuance of the Clearing Fund statement.

SECTION A-607 WITHDRAWALS

In the event that the Clearing Fund statement of a Clearing Member shows a surplus, the Clearing Member may request the withdrawal of such surplus by submitting a withdrawal request in the form and time prescribed by the Corporation.

SECTION A-608 FORM OF DEPOSITS

- 1) In addition to Base Deposits made pursuant to the requirements of Subsection A-601(2), Variable Deposits to the Clearing Fund shall also be in the form of Cash and/or in Acceptable Treasury Bills valued at a discounted rate, as determined by the Corporation from time to time in accordance with the methodology set out in the Risk Manual, of their market value; if no market value is generally available for such Acceptable Treasury Bills, they shall be valued at an amount determined by the Corporation. Substitutions may be made with the prior approval of the Corporation. Deposits in Cash shall be transferred by irrevocable funds transfer to the Corporation and may, from time to time, be partially or wholly invested by the Corporation for its account. To the extent not so invested, they shall be deposited to the credit of the Corporation in such financial institutions as the Board may select. Deposits in Cash shall not be used by the Corporation as working capital but any

interest or gain received or accrued on the investment of such funds shall belong to the Corporation.

- 2) Any Clearing Fund deposit shall be deemed to be deposited with the Corporation at the time the Corporation accepts the Cash and/or Acceptable Treasury Bills. All interest or gain received or accrued on any Acceptable Treasury Bills, prior to any sale, negotiation or pledge thereof, shall belong to the depositing Clearing Member.

SECTION A-609 APPLICATION OF CLEARING FUND

- 1) The Corporation shall apply a suspended Clearing Member's Margin Deposit (including, without limitation, deposits required or made as Margin and Clearing Fund), as well as the Clearing Fund deposits required of all other Clearing Members in accordance with Subsection A-609(2), as set out in Subsection A-701(2) and in accordance with the methodology set out in the Default Manual.
- 2) If the amount of the obligations, losses or expenses incurred or sustained by the Corporation in connection with the suspension of a Clearing Member exceeds the total amount of the suspended Clearing Member's Margin Deposit (including, without limitation, deposits required or made as Margin and Clearing Fund), and if such Clearing Member fails to pay the Corporation the amount of the deficiency on demand, the Corporation shall apply its own capital resources specifically set aside for such purpose up to the maximum amount set out in the Default Manual for a single Default Management Period, and if the amount of the deficiency exceeds such amount, the remaining deficiency shall be paid out of the Clearing Fund and charged to each Clearing Member's Clearing Fund deposit, pro rata, based on the quotient obtained by dividing the amount of such Clearing Member's Clearing Fund deposit required at the beginning of the Default Management Period by the aggregate amount of Clearing Fund deposits required at the beginning of the Default Management Period by all Clearing Members other than the suspended Clearing Member(s). Notwithstanding any such charges made against the Clearing Fund deposits of each of the Clearing Members, the suspended Clearing Member which failed to pay the deficiency shall remain liable to the Corporation for the full amount of such deficiency until its repayment.
- 3) Whenever any such charges are made against Clearing Members' deposits to the Clearing Fund, the Corporation shall promptly notify each Clearing Member of the amount of the charge and the reasons therefor. For the purposes of this Section A-609, the amount of any claim of the Corporation for deficiencies against a Clearing Member shall be determined without reference to the possibility of any subsequent recovery in respect thereof, through insolvency proceedings or otherwise, but the net amount of any such recovery shall be applied in accordance with Section A-612.
- 4) Without limiting the rights of the parties under Section A-607 and Subsections A-609(1) and (2), at the sole discretion of the Corporation, all property deposited with the Corporation as a Clearing Fund deposit by any and all Clearing Members may be pledged, repledged, hypothecated, rehypothecated or transferred by the Corporation as security for, or in connection with, the Corporation's own obligations to any person incurred in order (a) to obtain liquidity or credit for the purpose of assisting the Corporation to honour its obligations on a timely basis further to the designation by the Corporation of a Clearing Member as being a Non-Conforming Member, or (b) to fund a payment obligation of the

Corporation which arises pursuant to a Failed Delivery under Subsection A-804(1) by any Clearing Member, and any such security or transfer will be effective without the holder or recipient thereof being required to make any enquiry as to whether the applicable obligations have been incurred for the purposes set out in this Subsection A-609(4) or whether the funds so obtained are being used for such purposes. Without limiting the rights of the Corporation under Subsection A-701(2), at the sole discretion of the Corporation, in the case of the situation described in (a) above, the Corporation shall pledge the Non-Conforming Member's Margin Deposits (including, without limitation, Margin and Clearing Fund), in accordance with Subsection A-701(5), before pledging the Clearing Fund deposits of other Clearing Members. In the case of the situation described in (b) above, the Corporation shall pledge the Clearing Fund deposits of the Provider of Securities responsible for the Failed Delivery before pledging the Clearing Fund deposits of other Clearing Members. The Corporation shall be deemed to continue to hold all property deposited with the Corporation as Clearing Fund deposits, regardless of whether the Corporation has exercised its rights under this Subsection A-609(4).

- 5) Without limiting the rights of the Corporation under section A-609(1) and A-609(4), during a single Default Management Period, ~~CDCC~~the Corporation shall not, with respect to each Clearing Member that has not been suspended, apply more than 200 % of the Clearing Fund deposit required by such Clearing Member as of the date of the commencement of the Default Management Period to satisfy or otherwise settle any obligations, losses or expenses incurred or sustained by the Corporation in connection with the suspension(s) of Clearing Member(s).

SECTION A-610 MAKING GOOD ON CHARGES TO CLEARING FUND

Whenever an amount is paid out of the Clearing Fund deposits of the Clearing Members that have not been suspended, in accordance with Subsection A-609(2), such Clearing Members shall be liable to make good the deficiency if any in their deposits resulting from such payment no later than 2:00 p.m. on the Business Day following the date that the amount is paid out unless ~~CDCC~~the Corporation issues a notice specifying a later date. Notwithstanding the foregoing, Clearing Members will not be liable to make good during a single Default Management Period- more than an additional 200% of the amount of their Clearing Fund deposits required at the beginning of the Default Management Period as prescribed by the Rules ~~during a single Default Management Period~~.

SECTION A-611 DEPOSIT REFUND

- 1) Whenever a Clearing Member ceases to be a Clearing Member in accordance with Section A-1A09, the amount of its Clearing Fund deposit shall be returned, subject to the time limit specified in Subsection A-611(2). All outstanding amounts chargeable against a Clearing Member's deposit in connection with its activities while a Clearing Member, shall be deducted from the amount to be returned.
- 2) Thirty days after a Clearing Member has ceased to be member of the Corporation in accordance with Section A-1A09, the Corporation shall authorize such former member to withdraw its Clearing Fund deposit.

SECTION A-612 RECOVERY OF LOSS

- 1) Subject to Section A-1013, if an amount charged against the deposits of Clearing Members in the Clearing Fund is subsequently recovered by the Corporation from the Clearing Member whose failure to pay led to the amount being charged, in whole or in part, the net amount of such recovery shall be paid or credited to the Clearing Members against whose deposit the loss was charged in proportion to the amount charged against their respective deposits, whether or not they remain Clearing Members.
- 2) Any Clearing Member that has had an amount charged against its deposit under Section A-609(2), shall have the right to claim from the Clearing Member whose failure to pay a deficiency led to the amount being charged and the Clearing Member shall be obliged to reimburse such other Clearing Member the amount so charged against the Clearing Member's deposit to the extent that such amount has not been recovered by the Corporation pursuant to A-612(1).

NEW RULE

RULE A-10 –RECOVERY PROCESS

SECTION A- 1001- RECOVERY POWERS

- 1) Unless otherwise specified in the applicable section of Rule A-10, upon the declaration by the Corporation of the beginning of a Recovery Process, ~~EDCC~~the Corporation may exercise any of rights or remedies against its Clearing Members (each of which, a “Recovery Power”) in the manner set out in the applicable sections below, including applying a Recovery Loss Cash Payment.

SECTION A- 1002—DECLARATION OF RECOVERY PROCESS

- 1) During a Default Management Process, the Corporation may declare the commencement of a Recovery Process, subject to approval by the Board, upon any occurrence that, individually or in the aggregate (a “Recovery Event”), may, in the reasonable judgment of the Corporation, result in the Corporation incurring obligations, losses or expenses in excess of the sum of the following funds (which shall collectively be referred to as the “Default Waterfall”):
 - (i) the suspended Clearing Members’ Margin Deposit (including, without limitation, deposits required or made as Margin and Clearing Fund);
 - (ii) the Corporation’s own capital resources specifically set aside for such purpose;and

- (iii) 200% of the aggregate value of all Clearing Fund deposits required at the beginning of the Default Management Period of the Clearing Members which have not been suspended during the Default Management Period;

provided that the Recovery Event is caused or incurred in connection with the suspension of one or more Clearing Member(s) during the Default Management Period.

- 2) During a Default Management Process, the Corporation may declare the commencement of a Recovery Process, subject to approval by the Board, if, after the suspension of one or more Clearing Members and the exercise of the rights and remedies set out in Rule A-4, the Corporation reasonably determines that it has been, or will likely be, unable to close-out all the positions of suspended Clearing Members. Such determination shall also constitute a Recovery Event.
- 3) Upon the declaration of the commencement of a Recovery Process, the Corporation will notify all Clearing Members, the Exchanges, any regulatory agency having oversight over the Corporation, the Bank of Canada and any such other Entities as the Corporation may consider appropriate.

SECTION A- 1003- RECOVERY PROCESS

Recovery Process means any of the actions, rights or remedies of the Corporation set out in this Rule and the Default Manual.

SECTION A- 1004- RECOVERY LOSSES

Recovery Losses means any obligations, losses or expenses incurred or sustained by the Corporation as a result of or in connection with the ~~Recovery Event~~suspension of a Clearing Member.

SECTION A- 1005- [PLACEHOLDER]

Reserved.

SECTION A- 1006- RECOVERY LOSS CASH PAYMENT

- 1) At any time during a Default Management Period, after a declaration by the Corporation of the commencement of a Recovery Process, if, in the reasonable opinion of the Corporation, the Recovery Event may result in the Corporation incurring obligations, losses or expenses in an amount in excess of the sum of the following:
 - (i) the suspended Clearing Members' Margin Deposit (including, without limitation, deposits required or made as Margin and Clearing Fund);
 - (ii) the Corporation's own capital resources specifically set aside for such purpose; and

- (iii) 200% of the aggregate value of all Clearing Fund deposits required at the beginning of the Default Management Period of the Clearing Members which have not been suspended during the Default Management Period;

and such amount is known or can reasonably be determined, ~~EDCC~~the Corporation may require each Clearing Member which have not been suspended during the Default Management Period to pay to the Corporation its pro rata proportion of the Recovery Loss Cash Payment.

- 2) The Corporation shall determine the total amount of the Recovery Loss Cash Payment and calculate the pro rata proportion to be paid by each Clearing Member that is not a suspended Clearing Member, pro rata, based on the quotient obtained by dividing the amount of each Clearing Member's Clearing Fund deposit required at the beginning of the Default Management Period by the aggregate amount of Clearing Fund deposits required at the beginning of the Default Management Period of all Clearing Members other than the suspended Clearing Members.
- 3) The Corporation shall notify each Clearing Member that is not a suspended Clearing Member of the amount payable by such Clearing Member as Recovery Loss Cash Payment.
- 4) The aggregate amounts payable in Recovery Loss Cash Payments by a Clearing Member during a Default Management Period shall not exceed the value of such Clearing Member's Clearing Fund deposit required at the beginning of the Default Management Period.
- 5) The Recovery Loss Cash Payment shall be paid by each Clearing Member no later than the first Settlement Time on the Business Day following the date the Corporation notifies Clearing Members in writing that the Recovery Loss Payment is due, unless any other date is specified in the Corporation's notice.
- 6) A Recovery Loss Cash Payment must be paid to the Corporation in Cash and, once received, will belong to the Corporation. The Corporation shall not be required to pay any interest in respect of any Recovery Loss Cash Payment.
- 7) The Corporation shall use the Recovery Loss Cash Payment after exhausting the funds ~~referred to in subsection (1)~~ available to the Corporation as part of the Default Waterfall for the sole purpose of satisfying or otherwise settling Recovery Losses.

SECTION A- 1007- [PLACEHOLDER]

Reserved

SECTION A- 1008- [PLACEHOLDER]

Reserved

SECTION A- 1009- NO LIMITED RECOURSE

Nothing in this Rule shall limit the actions that may be taken by the Corporation pursuant to Rule A-4 against a Non-Conforming Clearing Member or a suspended Clearing Member.

SECTION A- 1010- NO EVENT OF DEFAULT

~~No~~ The implementation of the Recovery Process, nor any action or omission of the Corporation taken or occurring in connection with the Recovery Process during a Default Management Period shall constitute an Event of Default.

SECTION A-1011 NO ADJUSTMENT OF PAYMENT

Nothing in this Rule shall affect a Clearing Member's obligation to satisfy any other obligation under the Rules.

SECTION A-1012 APPLICATION OF PAYMENTS

No amount paid or deposited by a Clearing Member in connection with a Recovery Event shall be applied by the Corporation to satisfy or to compensate the Corporation for obligations other than those arising in connection with such Recovery Event.

SECTION A-1013 RECOVERY OF LOSS

- 1) Notwithstanding the remedies available to the Corporation under ~~the~~is Rule and to the extent that a Recovery Loss has been sustained by the Corporation, the suspended Clearing Member shall remain liable to the Corporation for the full amount of such Recovery Loss until its repayment.
- 2) If a Recovery Loss that has been satisfied with an amount levied from a Clearing Member, including through a Recovery Loss Cash Payment, is subsequently recovered by the Corporation from the Clearing Member whose suspension led to the Recovery Loss, in whole or in part, the net amount of such recovery shall be paid or credited to the Clearing Members to whom the Recovery Loss Cash Payment was charged in proportion to the amount paid by them whether or not they remain Clearing Members.
- 3) Any Clearing Member that has ~~paid-been charged~~ a Recovery Loss Cash Payment under Section A-1006, shall have the right to claim from the Clearing Member whose suspension led to the charging of the Recovery Loss ~~Cash Payment-es being charged~~ to it and the suspended Clearing Member shall be obliged to reimburse such other Clearing Member the amount paid by the Clearing Member to the extent such amount has not already been recovered by the Corporation pursuant to A-1013(2).

APPENDIX 2

(CLEAN)

SECTIONS A-102, A-1A09, A-411, RULE A-6 AND NEW RULE A-10

SECTION A-102 DEFINITIONS

“Default Management Period” has the meaning attributed thereto in Section A-411.

“Default Management Period End Date” has the meaning attributed thereto in Section A-411.

“Recovery Event” has the meaning attributed thereto in Section A-1002.

“Recovery Losses” has the meaning attributed thereto in Section A-1004.

“Recovery Loss Cash Payment” has the meaning attributed thereto in Section A-1006.

“Recovery Power” has the meaning attributed thereto in Section A-1001.

“Recovery Process” has the meaning attributed thereto in Section A-1003.

(...)

SECTION A-1A09 VOLUNTARY WITHDRAWAL

- 1) A Clearing Member may at any time notify the Corporation that it wishes to withdraw its Membership, by giving a minimum of 30 days’ prior written notice. The Clearing Member shall cease to be a Clearing Member at the later of the expiry of such notice period or the time determined by the Corporation at which all of the Clearing Member’s obligations have been satisfied and any requirements for withdrawal have been met, including obligations related to the winding down of all the Clearing Member’s activities. The withdrawal of any Clearing Member which has given a notice of withdrawal but whose withdrawal has not been completed at the commencement of a Default Management Period shall be stayed for the duration of the Default Management Period and such Clearing Member shall cease to be a Clearing Member at the time at which the Corporation determines that all the Clearing Member’s obligation have been satisfied
- 2) The Corporation shall give notice to all Clearing Members that the Clearing Member has given notice of its intention to withdraw its Membership.
- 3) If the withdrawal notice is given by a Non-Conforming Clearing Member, the Corporation shall promptly notify the Board, the other Clearing Members, the Exchanges, such Clearing Member’s applicable self-regulatory organization or agency, any regulatory agency having oversight over the Corporation and such other Entities as the Corporation may consider appropriate, that it has received notice of the Clearing Member’s withdrawal from membership in the Corporation.

RULE A-4 ENFORCEMENT

(...)

SECTION A- 411 -DEFAULT MANAGEMENT PERIOD

- 1) A Default Management Period means the period
 - (i) commencing on the day that the Corporation declares the suspension of a Clearing Member, and
 - (ii) concluding on the Default Management End Date.

provided however, that if the Corporation declares the suspension of a Clearing Member when a Default Management Period is ongoing due to the prior suspension of another Clearing Member, multiple Clearing Members' suspensions will be processed in a single Default Management Period.

- 2) The Default Management Period End Date shall occur on the Business Day following the declaration by the Corporation that:
 - (i) the obligations, losses or expenses incurred or sustained by the Corporation in connection with the suspension(s) of Non-Conforming Member(s) are known or can reasonably be determined and have been satisfied or otherwise settled; or
 - (ii) any of the actions, rights or remedies available to the Corporation with respect to the suspension of any Clearing Member that were deemed necessary by the Corporation have been taken; and
 - (iii) the Default Management Period with respect to the suspended Clearing Member(s) has been completed.

RULE A-6 CLEARING FUND DEPOSITS

SECTION A-601 CLEARING FUND MAINTENANCE AND PURPOSE

- 1) The Corporation shall establish a Clearing Fund relating to all Transactions cleared by the Corporation. Each Clearing Member admitted to clear Transactions at the Corporation shall maintain a deposit in the Clearing Fund of the amounts from time to time required by the Rules. The Clearing Fund shall be used for the purposes set out in Section A-609 and Subsection A-701(2).

The Clearing Fund Base Deposits are as follows:

- a) Options Clearing Base Deposit - \$25,000 Cash or equivalent value (as set out in Section A-608) of Acceptable Treasury Bills.

- b) Futures Clearing Base Deposit - \$75,000 Cash or equivalent value (as set out in Section A-608) of Acceptable Treasury Bills.
- c) OTCI Clearing Base Deposit(other than Fixed Income Transactions) - \$100,000 Cash or equivalent value (as set out in Section A-608) of Acceptable Treasury Bills.
- d) Fixed Income Transactions Clearing Base Deposit - \$1,000,000 Cash or equivalent value (as set out in Section A-608) of Acceptable Treasury Bills.

SECTION A-602 AMOUNT OF CLEARING FUNDS

The Clearing Fund is constituted of the aggregate amount of the Clearing Fund deposits required by each Clearing Members at the close of each calendar month as Base Deposit and Variable Deposit. The amount required to be deposited by each Clearing Member to the Clearing Fund shall be calculated according to Section A-603. Unless otherwise specified, the Clearing Fund shall not include any deposit made in excess of the amount of the Clearing Fund deposits required by each Clearing Member.

SECTION A-603 AMOUNT OF DEPOSIT

- 1) The required deposit of each Clearing Member to the Clearing Fund shall be an amount equal to the total of:
 - a) an Options Clearing Base Deposit, if the Clearing Member has been accepted to clear Options;
 - b) a Futures Clearing Base Deposit, if the Clearing Member has been accepted to clear Futures;
 - c) an OTCI Clearing Base Deposit, if the Clearing Member has been accepted to clear OTCI transactions other than Fixed Income Transactions;
 - d) a Fixed Income Transactions Clearing Base Deposit, if the Clearing Member has been accepted to clear Fixed Income Transactions; and
 - e) a Variable Deposit equal to the amount by which (i) the Clearing Member's contribution, in accordance with the methodology set out in the Risk Manual, to the Corporation's Uncovered Residual Risk exceeds (ii) such Clearing Member's Base Deposits.
- 2) Within a calendar month, if the Corporation determines that an increase to the Variable Deposit is necessary to protect its financial integrity, the Corporation will notify with a Clearing Fund statement the concerned Clearing Member(s) which shall increase in the determined amount and approved form its contribution to the Clearing Fund no later than 2:00 p.m. on the following Business Day.

SECTION A-604 CHANGES IN REQUIREMENT

The amount of Base and Variable Deposits required to be made by Clearing Members may be modified from time to time by the Corporation as a result of an amendment to the Rules. If the deposit to the Clearing Fund required to be made by a Clearing Member is thereby increased, the increase shall not become effective until the Clearing Member is given 3 Business Days prior written notice of such amendment. Unless a Clearing Member notifies the Corporation in writing that it wishes to withdraw its membership and closes out or transfers all of its aggregate positions in the relevant instrument before the effective date of such amendment, such Clearing Member shall be liable to make the increased deposit.

SECTION A-605 CLEARING FUND STATEMENT

On the first Business Day of each calendar month, the Corporation shall issue to each Clearing Member a Clearing Fund statement that shall list the current amount of such Clearing Member's deposits to the Clearing Fund and the amount of deposit required of such Clearing Member. Any surplus over and above the amount required or any deficit to be satisfied will also be shown. A Clearing Fund statement will also be issued intra-monthly if an increase to the Variable Deposit is necessary. The concerned Clearing Member will have until no later than 2:00 p.m. on the next Business Day to remediate any deficit.

SECTION A-606 ADDITIONAL CLEARING FUND DEPOSIT

Whenever a Clearing Member's Clearing Fund statement shows a deficit, such Clearing Member shall satisfy the deficit by a deposit in a form approved by the Corporation no later than 2:00 p.m. on the Business Day following the issuance of the Clearing Fund statement.

SECTION A-607 WITHDRAWALS

In the event that the Clearing Fund statement of a Clearing Member shows a surplus, the Clearing Member may request the withdrawal of such surplus by submitting a withdrawal request in the form and time prescribed by the Corporation.

SECTION A-608 FORM OF DEPOSITS

- 1) In addition to Base Deposits made pursuant to the requirements of Subsection A-601(2), Variable Deposits to the Clearing Fund shall also be in the form of Cash and/or in Acceptable Treasury Bills valued at a discounted rate, as determined by the Corporation from time to time in accordance with the methodology set out in the Risk Manual, of their market value; if no market value is generally available for such Acceptable Treasury Bills, they shall be valued at an amount determined by the Corporation. Substitutions may be made with the prior approval of the Corporation. Deposits in Cash shall be transferred by irrevocable funds transfer to the Corporation and may, from time to time, be partially or wholly invested by the Corporation for its account. To the extent not so invested, they shall be deposited to the credit of the Corporation in such financial institutions as the Board may select. Deposits in Cash shall not be used by the Corporation as working capital but any

interest or gain received or accrued on the investment of such funds shall belong to the Corporation.

- 2) Any Clearing Fund deposit shall be deemed to be deposited with the Corporation at the time the Corporation accepts the Cash and/or Acceptable Treasury Bills. All interest or gain received or accrued on any Acceptable Treasury Bills, prior to any sale, negotiation or pledge thereof, shall belong to the depositing Clearing Member.

SECTION A-609 APPLICATION OF CLEARING FUND

- 1) The Corporation shall apply a suspended Clearing Member's Margin Deposit (including, without limitation, deposits required or made as Margin and Clearing Fund), as well as the Clearing Fund deposits required of all other Clearing Members in accordance with Subsection A-609(2), as set out in Subsection A-701(2) and in accordance with the methodology set out in the Default Manual.
- 2) If the amount of the obligations, losses or expenses incurred or sustained by the Corporation in connection with the suspension of a Clearing Member exceeds the total amount of the suspended Clearing Member's Margin Deposit (including, without limitation, deposits required or made as Margin and Clearing Fund), and if such Clearing Member fails to pay the Corporation the amount of the deficiency on demand, the Corporation shall apply its own capital resources specifically set aside for such purpose up to the maximum amount set out in the Default Manual for a single Default Management Period, and if the amount of the deficiency exceeds such amount, the remaining deficiency shall be paid out of the Clearing Fund and charged to each Clearing Member's Clearing Fund deposit, pro rata, based on the quotient obtained by dividing the amount of such Clearing Member's Clearing Fund deposit required at the beginning of the Default Management Period by the aggregate amount of Clearing Fund deposits required at the beginning of the Default Management Period by all Clearing Members other than the suspended Clearing Member(s). Notwithstanding any such charges made against the Clearing Fund deposits of each of the Clearing Members, the suspended Clearing Member which failed to pay the deficiency shall remain liable to the Corporation for the full amount of such deficiency until its repayment.
- 3) Whenever any such charges are made against Clearing Members' deposits to the Clearing Fund, the Corporation shall promptly notify each Clearing Member of the amount of the charge and the reasons therefor. For the purposes of this Section A-609, the amount of any claim of the Corporation for deficiencies against a Clearing Member shall be determined without reference to the possibility of any subsequent recovery in respect thereof, through insolvency proceedings or otherwise, but the net amount of any such recovery shall be applied in accordance with Section A-612.
- 4) Without limiting the rights of the parties under Section A-607 and Subsections A-609(1) and (2), at the sole discretion of the Corporation, all property deposited with the Corporation as a Clearing Fund deposit by any and all Clearing Members may be pledged, repledged, hypothecated, rehypothecated or transferred by the Corporation as security for, or in connection with, the Corporation's own obligations to any person incurred in order (a) to obtain liquidity or credit for the purpose of assisting the Corporation to honour its obligations on a timely basis further to the designation by the Corporation of a Clearing Member as being a Non-Conforming Member, or (b) to fund a payment obligation of the

Corporation which arises pursuant to a Failed Delivery under Subsection A-804(1) by any Clearing Member, and any such security or transfer will be effective without the holder or recipient thereof being required to make any enquiry as to whether the applicable obligations have been incurred for the purposes set out in this Subsection A-609(4) or whether the funds so obtained are being used for such purposes. Without limiting the rights of the Corporation under Subsection A-701(2), at the sole discretion of the Corporation, in the case of the situation described in (a) above, the Corporation shall pledge the Non-Conforming Member's Margin Deposits (including, without limitation, Margin and Clearing Fund), in accordance with Subsection A-701(5), before pledging the Clearing Fund deposits of other Clearing Members. In the case of the situation described in (b) above, the Corporation shall pledge the Clearing Fund deposits of the Provider of Securities responsible for the Failed Delivery before pledging the Clearing Fund deposits of other Clearing Members. The Corporation shall be deemed to continue to hold all property deposited with the Corporation as Clearing Fund deposits, regardless of whether the Corporation has exercised its rights under this Subsection A-609(4).

- 5) Without limiting the rights of the Corporation under section A-609(1) and A-609(4), during a single Default Management Period, the Corporation shall not, with respect to each Clearing Member that has not been suspended, apply more than 200 % of the Clearing Fund deposit required by such Clearing Member as of the date of the commencement of the Default Management Period to satisfy or otherwise settle any obligations, losses or expenses incurred or sustained by the Corporation in connection with the suspension(s) of Clearing Member(s).

SECTION A-610 MAKING GOOD ON CHARGES TO CLEARING FUND

Whenever an amount is paid out of the Clearing Fund deposits of the Clearing Members that have not been suspended, in accordance with Subsection A-609(2), such Clearing Members shall be liable to make good the deficiency if any in their deposits resulting from such payment no later than 2:00 p.m. on the Business Day following the date that the amount is paid out unless the Corporation issues a notice specifying a later date. Notwithstanding the foregoing, Clearing Members will not be liable to make good during a single Default Management Period more than an additional 200% of the amount of their Clearing Fund deposits required at the beginning of the Default Management Period as prescribed by the Rules.

SECTION A-611 DEPOSIT REFUND

- 1) Whenever a Clearing Member ceases to be a Clearing Member in accordance with Section A-1A09, the amount of its Clearing Fund deposit shall be returned, subject to the time limit specified in Subsection A-611(2). All outstanding amounts chargeable against a Clearing Member's deposit in connection with its activities while a Clearing Member, shall be deducted from the amount to be returned.
- 2) Thirty days after a Clearing Member has ceased to be member of the Corporation in accordance with Section A-1A09, the Corporation shall authorize such former member to withdraw its Clearing Fund deposit.

SECTION A-612 RECOVERY OF LOSS

- 1) Subject to Section A-1013, if an amount charged against the deposits of Clearing Members in the Clearing Fund is subsequently recovered by the Corporation from the Clearing Member whose failure to pay led to the amount being charged, in whole or in part, the net amount of such recovery shall be paid or credited to the Clearing Members against whose deposit the loss was charged in proportion to the amount charged against their respective deposits, whether or not they remain Clearing Members.
- 2) Any Clearing Member that has had an amount charged against its deposit under Section A-609(2), shall have the right to claim from the Clearing Member whose failure to pay a deficiency led to the amount being charged and the Clearing Member shall be obliged to reimburse such other Clearing Member the amount so charged against the Clearing Member's deposit to the extent that such amount has not been recovered by the Corporation pursuant to A-612(1).

NEW RULE

RULE A-10 –RECOVERY PROCESS

SECTION A- 1001- RECOVERY POWERS

- 1) Unless otherwise specified in the applicable section of Rule A-10, upon the declaration by the Corporation of the beginning of a Recovery Process, the Corporation may exercise any of rights or remedies against its Clearing Members (each of which, a “Recovery Power”) in the manner set out in the applicable sections below, including applying a Recovery Loss Cash Payment.

SECTION A- 1002—DECLARATION OF RECOVERY PROCESS

- 1) During a Default Management Process, the Corporation may declare the commencement of a Recovery Process, subject to approval by the Board, upon any occurrence that, individually or in the aggregate (a “Recovery Event”), may, in the reasonable judgment of the Corporation, result in the Corporation incurring obligations, losses or expenses in excess of the sum of the following funds (which shall collectively be referred to as the “Default Waterfall”):
 - (i) the suspended Clearing Members’ Margin Deposit (including, without limitation, deposits required or made as Margin and Clearing Fund);
 - (ii) the Corporation’s own capital resources specifically set aside for such purpose; and
 - (iii) 200% of the aggregate value of all Clearing Fund deposits required at the beginning of the Default Management Period of the Clearing Members which have not been suspended during the Default Management Period;

provided that the Recovery Event is caused or incurred in connection with the suspension of one or more Clearing Member(s) during the Default Management Period.

- 2) During a Default Management Process, the Corporation may declare the commencement of a Recovery Process, subject to approval by the Board, if, after the suspension of one or more Clearing Members and the exercise of the rights and remedies set out in Rule A-4, the Corporation reasonably determines that it has been, or will likely be, unable to close-out all the positions of suspended Clearing Members. Such determination shall also constitute a Recovery Event.
- 3) Upon the declaration of the commencement of a Recovery Process, the Corporation will notify all Clearing Members, the Exchanges, any regulatory agency having oversight over the Corporation, the Bank of Canada and any such other Entities as the Corporation may consider appropriate.

SECTION A- 1003- RECOVERY PROCESS

Recovery Process means any of the actions, rights or remedies of the Corporation set out in this Rule and the Default Manual.

SECTION A- 1004- RECOVERY LOSSES

Recovery Losses means any obligations, losses or expenses incurred or sustained by the Corporation as a result of or in connection with the suspension of a Clearing Member.

SECTION A- 1005- [PLACEHOLDER]

Reserved.

SECTION A- 1006- RECOVERY LOSS CASH PAYMENT

- 1) At any time during a Default Management Period, after a declaration by the Corporation of the commencement of a Recovery Process, if, in the reasonable opinion of the Corporation, the Recovery Event may result in the Corporation incurring obligations, losses or expenses in an amount in excess of the sum of the following:
 - (i) the suspended Clearing Members' Margin Deposit (including, without limitation, deposits required or made as Margin and Clearing Fund);
 - (ii) the Corporation's own capital resources specifically set aside for such purpose; and
 - (iii) 200% of the aggregate value of all Clearing Fund deposits required at the beginning of the Default Management Period of the Clearing Members which have not been suspended during the Default Management Period;

and such amount is known or can reasonably be determined, the Corporation may require each Clearing Member which have not been suspended during the Default Management Period to pay to the Corporation its pro rata proportion of the Recovery Loss Cash Payment.

- 2) The Corporation shall determine the total amount of the Recovery Loss Cash Payment and calculate the pro rata proportion to be paid by each Clearing Member that is not a suspended Clearing Member, pro rata, based on the quotient obtained by dividing the amount of each Clearing Member's Clearing Fund deposit required at the beginning of the Default Management Period by the aggregate amount of Clearing Fund deposits required at the beginning of the Default Management Period of all Clearing Members other than the suspended Clearing Members.
- 3) The Corporation shall notify each Clearing Member that is not a suspended Clearing Member of the amount payable by such Clearing Member as Recovery Loss Cash Payment.
- 4) The aggregate amounts payable in Recovery Loss Cash Payments by a Clearing Member during a Default Management Period shall not exceed the value of such Clearing Member's Clearing Fund deposit required at the beginning of the Default Management Period.
- 5) The Recovery Loss Cash Payment shall be paid by each Clearing Member no later than the first Settlement Time on the Business Day following the date the Corporation notifies Clearing Members in writing that the Recovery Loss Payment is due, unless any other date is specified in the Corporation's notice.
- 6) A Recovery Loss Cash Payment must be paid to the Corporation in Cash and, once received, will belong to the Corporation. The Corporation shall not be required to pay any interest in respect of any Recovery Loss Cash Payment.
- 7) The Corporation shall use the Recovery Loss Cash Payment after exhausting the funds available to the Corporation as part of the Default Waterfall for the sole purpose of satisfying or otherwise settling Recovery Losses.

SECTION A- 1007- [PLACEHOLDER]

Reserved

SECTION A- 1008- [PLACEHOLDER]

Reserved

SECTION A- 1009- NO LIMITED RECOURSE

Nothing in this Rule shall limit the actions that may be taken by the Corporation pursuant to Rule A-4 against a Non-Conforming Clearing Member or a suspended Clearing Member.

SECTION A- 1010- NO EVENT OF DEFAULT

The implementation of the Recovery Process, nor any action or omission of the Corporation taken or occurring in connection with the Recovery Process during a Default Management Period shall constitute an Event of Default.

SECTION A-1011 NO ADJUSTMENT OF PAYMENT

Nothing in this Rule shall affect a Clearing Member's obligation to satisfy any other obligation under the Rules.

SECTION A-1012 APPLICATION OF PAYMENTS

No amount paid or deposited by a Clearing Member in connection with a Recovery Event shall be applied by the Corporation to satisfy or to compensate the Corporation for obligations other than those arising in connection with such Recovery Event.

SECTION A-1013 RECOVERY OF LOSS

- 1) Notwithstanding the remedies available to the Corporation under the Rule and to the extent that a Recovery Loss has been sustained by the Corporation, the suspended Clearing Member shall remain liable to the Corporation for the full amount of such Recovery Loss until its repayment.
- 2) If a Recovery Loss that has been satisfied with an amount levied from a Clearing Member, including through a Recovery Loss Cash Payment, is subsequently recovered by the Corporation from the Clearing Member whose suspension led to the Recovery Loss, in whole or in part, the net amount of such recovery shall be paid or credited to the Clearing Members to whom the Recovery Loss Cash Payment was charged in proportion to the amount paid by them whether or not they remain Clearing Members.
- 3) Any Clearing Member that has been charged a Recovery Loss Cash Payment under Section A-1006, shall have the right to claim from the Clearing Member whose suspension led to the charging of the Recovery Losses being charged to it and the suspended Clearing Member shall be obliged to reimburse such other Clearing Member the amount paid by the Clearing Member to the extent such amount has not already been recovered by the Corporation pursuant to A-1013(2).



DEFAULT MANUAL

February 7, 2017

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This Default Manual (the “Manual”) is intended to summarize the Rules of the Canadian Derivatives Clearing Corporation (“CDCC” or the “Corporation”) and confirm certain details concerning the actions, rights and remedies that the Corporation may take with respect to Clearing Members in financial difficulty, potentially in default or in default of obligations under the Rules. The Manual also address the actions, rights and remedies that the Corporation may take with respect to all Clearing Members upon the declaration of a Recovery Process. This Manual describes the Corporation’s possible course of action, including management of a default situation, authority, communication with a Clearing Member and implementation. **In case of conflict between the provisions set out in this Manual and the Rules of the Corporation, the Rules will prevail.** Terms with capitals which are not defined in this Manual have the meanings ascribed to them in the Rules.

A fundamental objective of a central counterparty is to ensure the integrity of payments and/or physical delivery of securities, even in the unlikely event of a Clearing Member default. Since the default of one or more Clearing Members may have an impact on the continuity of clearing operations, the Corporation must ensure that efficient mechanisms and processes are in place, capable of limiting the adverse impacts of such an event, with respect to monitoring and the determination of a Clearing Member’s Non-Conforming Member status and a Clearing Member’s suspension. As such, this Manual is meant to:

1. describe the grounds and events which may trigger the implementation of the default management process and the enforcement actions that may be taken by the Corporation throughout the process;
2. describe the governance process followed by the Corporation; and
3. describe the risk mitigation tools that can be used by the Corporation.
4. describe the Recovery Process and the related powers.

Section 1: Default Management Process - Triggers And Implementation

The grounds and events which may trigger the implementation of the steps, decisions, enforcement actions or remedies that may be taken by the Corporation, which shall be referred therein as the Default Management Process, are described below. The Rules, notably Rule A-1A - Membership in the Corporation, Rule A-3 - Capital Requirements, Rule A-6 - Clearing Fund Deposits and Rule A-7 - Margin Requirements, support CDCC's authority in these actions and must be adhered to with extreme rigor.

1.1 OBJECTIVES OF DEFAULT MANAGEMENT

Participants in the Default Management Process should at all times bear in mind the objectives of the default management exercise. These are delineated below:

- To minimize Clearing Member losses deriving from an inability of the Corporation to make settlement payments, protect Clearing Member Margin Deposit, or otherwise manage its responsibilities in a manner consistent with orderly markets.
- To ensure the continued effective functioning of the clearing process both during and after the default of a Clearing Member.
- To use all available powers and resources to protect the financial assets and positions of Clearing Members not contributing to the condition of default. This includes, wherever possible, the comprehensive and efficient transfer of Client Accounts associated with a defaulting Clearing Member, including any position maintained in such account and any Margin Deposits held by the Corporation in respect of such account, to another Clearing Member.
- To minimize the market impact of the Default Management Process.
- To ensure the continued solvency of the Corporation and timely access to liquidity both during and after the Default Management Process.
- To communicate with regulatory authorities on actions taken throughout the Default Management Process.

Corporation management, staff and agents should conduct themselves at all times during the Default Management Process in a manner consistent with these objectives, and in general without regard to other considerations.

1.2 TRIGGERS LEADING TO NON-CONFORMING OR SUSPENSION STATUS

Critical to the process of default management is, of course, defining the grounds and events which can lead a Clearing Member to default on its obligation and result in the Corporation declaring such member Non-Conforming or suspending it, where warranted.

As a general rule, the Corporation views any situation which would, in its judgment, impede a Clearing Member's ability to meet its obligations, as specified in the Rules, as grounds to declare a Clearing Member Non-Conforming. Sections A-1A04 and A-1A05 of the Rules provide the details of the grounds and events that can lead the Corporation to declare a member Non-Conforming or suspend it, respectively.

For the avoidance of doubt, as indicated in the Rules, the Corporation may in advance of, or in anticipation of a default or breach of eligibility or standard requirement, declare a Clearing Member Non-Conforming.

Where the Non-Conforming Clearing Member is insolvent or is unable or likely to be unable to meet its obligations under the Rules on a continuing basis, and has no reasonable prospect of returning to good standing or curing its default within a reasonable timeframe, the Corporation may then suspend the Non-Conforming Clearing Member. The Corporation will act accordingly for any default, whether actual or imminent, that is of such a gravity that suspension would be warranted, taking into consideration the protection of the integrity of the market.

1.3 STATUS ASSOCIATED WITH A DEFAULT

The Rules specify two distinct status levels associated with the default of a Clearing Member. The first such form is Non-Conforming status. At any point when the Clearing Member is or may become insolvent or unable to meet its obligations, management may declare that Clearing Member to be a Non-Conforming Member. Section A-1A04 of the Rules provides the grounds on which the Corporation may do so. Upon a declaration of Non-Conforming status, the Corporation is empowered with the authority, as further specified below, to undertake a wide range of mitigating actions.

Considering the gravity of the situation, the likelihood of a remediation of the default by the Clearing Member and in order to protect the integrity of the market, the Board may, in its sole discretion, choose to suspend the Non-Conforming Member.

The Corporation's management is responsible to declare a Clearing Member Non-Conforming whereas a suspension decision must be taken by the Board. Please refer to sections A-1A04 and A-1A05 of the CDCC Rules which lay out the specificities of Non-Conforming and suspension statuses respectively.

1.4 POWERS OF THE CORPORATION IN THE DEFAULT MANAGEMENT PROCESS

Imposition of Additional Margin Call in Pre-Default

In accordance with Section A-702, the Corporation, following a management decision, may, without advance notice and at its sole discretion, impose an additional Margin on

Clearing Member, whether Non-Conforming or not, for an indeterminate period. While this may be necessary under a wide range of circumstances, it is particularly relevant in situations where the Corporation has reason to believe a default is imminent but has yet to take a decision on Non-Conforming status.

The Clearing Member will be informed and will have to meet its additional Margin requirements within the same deadlines as regular Margin calls. This additional Margin will be added to the amount of Margin.

Implementation of Default Management Process: Non-Conforming and Suspension

In the event that the Corporation or the Board, as applicable, chooses to place a Clearing Member, in either Non-Conforming Member status or suspension, it must, as soon as practicable, assess the situation and ensure that any and all remedies available to it are at its immediate disposal. The Corporation must use any and all commercially reasonable efforts to manage the default process.

For further clarity, the Corporation may simultaneously declare a Member Non-Conforming and suspend such Member, without applying first the measures available under the Non-Conforming status.

Taking into consideration the context and materiality of the trigger event, the ability of the Clearing Member to correct the situation within reasonable delay, the Corporation or the Board, as applicable, may therefore choose to undertake any of the following set of actions in its efforts to mitigate associated damage.

Enforcement Actions Pursuant to a Non-Conforming Status

- Prohibit and/or impose limitations on the acceptance and / or clearance of Transactions by the defaulting Clearing Member.
- Requiring such Clearing Member to reduce or close out existing Transactions in such Clearing Member's accounts with the Corporation.
- Prevent or restrict the defaulting Clearing Member's right to withdraw any excess in Margin Deposits pursuant to Section A-607 or Section A-704.
- Transferring, requiring to transfer or transferring on its behalf, all or any portion of a defaulting Clearing Member's Client Account maintained by such Clearing Member with the Corporation, any position maintained in such account and any Margin Deposits held by the Corporation in respect of such Account, to another Clearing Member.
- Undertake any legal action against the defaulting Clearing Member that in the judgment of the Corporation may help to mitigate default-related losses.
- Sanction, reprimand, fine or impose a penalty on the defaulting Member.
- Suspend the Non-Conforming Member.

Enforcement Actions Pursuant to a Suspension

In addition to the actions that the Corporation may take under the Non-Conforming Status, CDCC may;

- Seize all Margin Deposits posted to the Corporation by the defaulting Clearing Member, including his contribution to the Clearing Fund and use it to satisfy such Clearing Member's obligation.
- Seize control of all Open Positions held by the defaulting Clearing Member.
- Gain access, and, if necessary, control of the defaulting Clearing Member prescribed records, so as to ensure the continued efficient processing of business, and to ensure the defaulting entity continues to comply with all Rules and mandates.
- Neutralize market exposures through the use of hedging instruments where, as determined by the Corporation, market conditions do not allow for an orderly auctioning or closeout of a defaulting Clearing Member's Open Positions in a timeframe which is consistent with the Corporation's risk management model.
- Render a determination as to which Firm Accounts and Market Maker Accounts of the defaulting Clearing Member (subject to the objective of protecting to the largest extent possible, all Client Accounts) may have offsets which could be netted for risk reduction purposes.
- Place all accounts of the defaulting Clearing Member on liquidation only status.
- With respect to such accounts, effect liquidation of Open Positions, either directly by Corporation staff, or as appropriate, through appointed agents.
- Schedule an auction to transfer all remaining Open Positions to other Clearing Members at best available prices.
- Potentially postpone delivery obligations if, in the judgement of the Corporation, not doing so would expose the Corporation and surviving Clearing Members to increased risk of financial loss.
- Apply any and all available financial resources, as further described below.

1.5 DEFAULT MANAGEMENT PERIOD

The Default Management Period defines the period during which Clearing Members' financial resources are potentially exposed to losses following a default from another Clearing Members.

While the exact definition is provided in the Rule A-411, the intent is to define the Default Management Period as the period starting from the suspension of a Clearing Member and ending when this default is been completely managed and the Corporation declares the

Default Management Process to be completed. A default is deemed to be completely managed when:

- i) all obligations, losses and expenses are known or can reasonably be determined and have been successfully absorbed or otherwise settled; or
- ii) the Corporation has successfully reestablished a matched book.

For example, if a second Clearing Member suspension occurs during the Default Management Period, this period is extended and will end when the two defaults have been completely managed. ~~For example, Hence,~~ if that second default occurs while the Corporation is still managing a first one, the maximum amount of Clearing Members' financial resources potentially exposed to losses will remain the same for the duration of the Default Management Period whether one or several defaults are processed.

1.6 DEFAULT WATERFALL : APPLICATION OF FINANCIAL RESOURCES TO COVER DEFAULT-RELATED LOSSES

In implementing the Default Management Process, the Corporation will aim at minimizing, to the extent possible and on best efforts basis, the losses to the Corporation and its stakeholders. If there are nonetheless losses to the Corporation, the Corporation must apply, in specified order, a series of financial resources to ensure its ongoing viability and financial solvency. The sections i to iv below describe the financial resources which form the "Default Waterfall" and the order in which CDCC will apply them to cover losses associated with the liquidation of a defaulting Clearing Member. Elements i to iii are referred to "Prefunded Financial Resources".

i. Defaulting Clearing Member Resources

- **Defaulting Clearing Member Margin Deposit.** The first line of financial protection is the Margin Deposit posted by the defaulting Clearing Member as part of the Corporation's routine collateralization process; and
- **Defaulting Clearing Member's Contribution to the Clearing Fund.** As specified by the Rules, each Clearing Member must post an additional contribution to the Clearing Fund. Once the Corporation has exhausted the defaulting Clearing Member's Margin Deposit, it will next use these resources in its loss absorption effort.

If after applying these resources of the defaulting Clearing Member, a shortfall still remains, the Corporation would, as indicated below, use the resources of the Corporation to cover the losses.

ii. Resources of the Corporation (Default Risk Capital - DRC)

- CDCC has capital reserves set aside specifically for the purpose of absorbing Default Related Losses, which is currently of \$5 million. This capital therein referred to as it "Default Risk Capital".

If, after applying these resources of the defaulting Clearing Member, and of CDCC, a shortfall still remains, CDCC will, as indicated below, use the required Clearing Fund deposits of the other Clearing Members to cover the loss.

iii. Non-Defaulting Clearing Member Clearing Fund Deposits

- The Corporation would next use the remaining balance of the Clearing Fund, on a pro-rata basis as determined by the size of each non-defaulting Clearing Member's contribution.

The above set of financial resources (listed in (i) to (iii)) which form the Prefunded Financial Resources of the Default Waterfall and are readily available for the Corporation to extinguish financial losses stemming from a participant default are deemed highly reliable as they are under the control of CDCC and for this sole purpose. All Margin and Clearing Fund deposits are subject to a first ranking security interest granted by the Clearing Members to CDCC for such purpose.

iv. Additional Clearing Fund Contribution of Surviving Clearing Members

- If after applying all of the financial resources specified above, a loss still persists, the Corporation may request that the remaining Clearing Members replenish their Clearing Fund contributions, in a manner specified in Section A-610 of its Rules and apply up to a maximum of 200% of the Clearing Fund deposits required of all remaining Clearing Members, to satisfy the outstanding obligation as provided in Section A-609(5).

The Corporation must act with rigor to ensure it follows the prescribed order of the Default Waterfall, and communicate with all relevant parties in an effective fashion. In the event that the Corporation is later able to recover from any loss incurred from the defaulting Clearing Member, it shall first reimburse any contributions to the Clearing Fund of the remaining Clearing Members that were used to cover the losses, before reimbursing CDCC's own capital reserves used.

1.7 MAKING GOOD ON CHARGES TO CLEARING FUND

As described in section 1.6 above on the Default Waterfall, a non-defaulting Clearing Member is potentially exposed to a loss representing 2 times its required Clearing Fund deposits during a Default Management Period.

However, the Corporation must have the capacity to replenish promptly any depleted financial resources to ensure that CDCC maintains appropriate financial resources to continue to operate in a safe and prudent manner and maintain its Cover 1 status. As such, each Clearing Member is subject to an obligation to make good on charges to Clearing Fund whenever an amount is paid out of the Clearing Fund deposits. During a single Default Management Period, each Clearing Member is however only liable to make good of an additional 200% of its required Clearing Fund deposit. The additional contribution must be made no later than 2:00 p.m. on the Business Day following the date that the amount is paid out unless the Corporation issues a notice specifying a later date.

Section 2: Default Management Governance

In this section, the Corporation outlines the specific actions to be taken by its staff, management and the Board, in order to ensure that it quickly identifies, reacts to, and effectively manages a condition of default. The two sub-sections are:

1. Governance Structure; and
2. Roles and Responsibilities upon a Declaration of Non-Conforming or Suspension.

2.1 GOVERNANCE STRUCTURE

The Corporation's procedures for the management of a default are governed, under the auspices of its Board and by two Committees, presented below in their hierarchical order:

- Default Management Committee (DMC)
- Emergency Committee (EC)

In the default process, it is important for the Corporation to react in as timely a fashion as possible to identify the potential for a default by a Clearing Member. As such, under the authority of the President or his designee, if at any point the Corporation receives information which would, in its view, acting reasonably, likely lead to a default event by any Clearing Member, it will, as soon as practicable, convene a meeting of the Default Management Committee (DMC). The DMC is comprised of the individuals holding the following positions (or their delegates):

- President of CDCC
- Vice-President & Chief Risk Officer, CDCC
- Director Risk Management, CDCC
- Vice-President Integrated Operations, GES
- Director Strategic Initiatives, CDCC
- Chief Legal Officer, CDCC
- Chief Compliance Officer, CDCC
- Head, Client Technology Delivery - Clearing Systems, GES

Each of these individuals, in managing their departments, must act with due rigor to assess issues, identify associated magnitudes, recommend actions and inform management, to the Board and other Corporation stakeholders, as appropriate.

The responsibility of the DMC is to make decisions related to the Default Management Process, e.g. the determination of the Non-Conforming status, actions to be implemented to limit losses to the Corporation and the conforming Clearing Members. The DMC can count on the participation of a sub-committee to help performing its mandate, namely the Emergency Committee (EC).

The EC, chaired by the VP and Chief Risk Officer, is composed of all DMC members plus the following specialists (and/or any other representatives or designees deemed appropriate to involve in the process):

- CDCC Treasurer
- MX Vice-President, Regulatory Division
- Head of Corporate Communications , TMX
- Director, Market Operations, MX
- Managers, Risk Management

It will be the responsibility of the EC to provide an ongoing assessment of the situation, and to report, as appropriate, to the DMC and the Board, so as to ensure these bodies are in a position to render informed decisions throughout the process.

2.2 ROLES AND RESPONSIBILITIES UPON A DECLARATION OF NON-CONFORMING OR SUSPENSION

The Rules provide for two statuses associated with the default for a Clearing Member: Non-Conforming Member status and suspension. Non-Conforming Member status can be determined by the Corporation's management, while a suspension must be ratified by the Board.

2.2.1 DECLARATION OF NON-CONFORMING MEMBER STATUS

Grounds

Section A-1A04 addresses the grounds upon which the Corporation may declare the Non-Conforming Member status. The grounds are however not exhaustive.

Communication

The Clearing Member should notify the Corporation if it is insolvent or unable to honour its obligations under the Rules.

However, in the event that the Clearing Member is declared as a Non-Conforming Member by the Corporation, the Corporation must inform the Clearing Member in writing or by telephone.

Authority

The Corporation may decide on Non-Conforming Member status.

Required Response by Non-Conforming Members

A Clearing Member which has experienced an event, technical or otherwise, as a result of which it fails or finds itself likely to fail to meet any of its day-to-day operational needs for its business must inform the Corporation immediately of such event. Failure to notify the appropriate Corporation staff members immediately may result in any actions contemplated under the Rules, including disciplinary actions. A Non-Conforming Member may in certain cases remedy its situation via wiring required funds or posting additional collateral to the Corporation.

Contemporaneous to the notification of Non-Conforming Member status to a Clearing Member, the Corporation will ask such Clearing Member to state in writing its assertions with respect to each of the following:

- Cause of the action which placed it in Non-Conforming Member status;
- Remedies for the immediate circumstance; and
- Changes in its financial profile and operating protocols to guard against recurrence.

Corporation staff will work with the Non-Conforming Member to secure and assess its written response. Contemporaneously, the EC will work with the DMC to determine any potential immediate additional actions, including recommendations to the Board regarding suspension.

In the event that a remedy occurs in a timely fashion, the Corporation will review the Non-Conforming Member's written explanation and will then

determine next steps, including the potential removal of Non-Conforming Member status, or recommendations to the Board for suspension.

In executing these procedures, the Corporation must remain mindful of the narrow time window available to it to determine the next steps in the process. It is essential that all members of management and all Board members make themselves available as necessary to render timely and efficient decisions under these circumstances.

Implementation

The Corporation must work in concert with the Non-Conforming Member and the appropriate regulatory authorities to rectify the Clearing Member's Non-Conforming Member status.

The enforcement actions available to the Corporation, as set out under section A-401 and as further explained in the Section 1 of this Manual, are not exhaustive and are not necessarily presented in chronological order, and can be adapted as required by the Corporation according to the circumstances that prevail during the period the Clearing Member is a Non-Conforming Member.

Notifications

Once the Corporation has declared a Clearing Member to be a Non-Conforming Member, the Corporation will immediately consider its notice obligations. Those entities whose notification is considered include:

- The Clearing Members
- Appropriate regulatory authorities
- Exchanges and central clearing organizations (CCOs)

While it will be the prerogative of the Corporation to determine the timing and content of its outside disclosures, it will nonetheless immediately inform any CCOs with which the Corporation has in place a Memorandum of Understanding for such information sharing.

2.2.2 DECLARATION OF A SUSPENSION

Grounds

A Non-Conforming Member may be suspended in accordance with Section A-1A04 or any other conditions that the Corporation may deem relevant. Section 1.2 of this Manual also discusses the triggers which may lead to a suspension. In effect, the Corporation, upon approval of the Board, may decide to suspend a Clearing Member without first declaring it Non-Conforming.

Communication

The Corporation will communicate to the Clearing Member a written statement setting out the grounds for its suspension.

Authority

The Board has the authority regarding the suspension and lifting of a Clearing Member's suspension.

Implementation

Once the Board approves a suspension, the Corporation ceases to act on behalf of the Clearing Member.

According to Section A-1A05, the Corporation may then implement any of the enforcement actions set out under Section A-401 and as described in the Section 1 of this Manual.

As mentioned in Section A-1A05, the suspension may be total or may be for any function with respect to a particular security or class of securities, with respect to a particular Transaction or class of Transactions, or with respect to securities or Transactions generally.

The Board may lift a Clearing Member's suspension at any time.

Notifications

Once the Board has declared a Clearing Member to be suspended, the Board will immediately consider its notice obligations. Those entities whose notification is considered include:

- The general population of Clearing Members
- Appropriate regulatory authorities
- Exchanges and CCOs

While it will be the prerogative of the Board to determine the timing and content of its outside disclosures, it will nonetheless immediately inform any CCOs with which the Corporation has in place a Memorandum of Understanding for such information sharing.

Appeal

According to Section A-1A07, the Clearing Member may appeal a suspension decision. Such appeal does not impede the actions of the Corporation in the Default Management Process.

Section 3: Risk Mitigation Tools

Once a Clearing Member has been suspended, the Corporation shall take specific actions in order to protect the Corporation and the non-defaulting Clearing Members. Conceptually, these actions can be aggregated into three categories and are normally executed in the order presented. While some actions might have been initiated by the Corporation pursuant to a declaration of Non-Conforming status, including, namely, the transfer of Client Accounts, this section details how the Corporation will implement the risk mitigation tools, upon the suspension of the Clearing Member.

- **Prevention:** Preventing controls are the starting point of the management of a default under the suspension status. They are focused on preventing new transactions to be cleared in the suspended Clearing Member's books.
- **Control:** Such actions are focused on taking control over the suspended Clearing Member's assets and positions.
- **Risk mitigation:** Such actions are focused on transferring risks, re-establishing a matched book, and neutralizing risks, at the lowest cost possible for the Corporation and the conforming Clearing Members, while managing the liquidity risk associated with the Default Management Process.

This section provides more information on the risk mitigation tools available to the Corporation.

3.1 TRANSFER OF CLIENT ACCOUNTS

The Corporation will attempt to transfer Client Accounts, in whole or in part, to the books of other Clearing Members. Note that, as specified in the Objectives section of this Manual, the efficient and comprehensive transfer of all Client Accounts is an identified objective of the default management exercise. For the avoidance of doubt, this includes transferring any position maintained in such account, or any account carried by such Clearing Member and any Margin Deposits held by the Corporation in respect of such account, to another Clearing Member.

3.2 AUCTION AND LIQUIDATION

In order to manage a default situation and following the suspension of a Clearing Member, the Corporation must re-establish a matched book. In order to do so, the Corporation can hold an auction for the suspended Clearing Member positions or liquidate its positions.

Immediately subsequent to the declaration of a suspension of a Non-Conforming Member, the Corporation must take the appropriate and following steps to conducting an auction

designed to transfer the remaining collateral and positions to those of another Clearing Member.

- The President of the Corporation will call the most senior available representative of the defaulting Clearing Member, to notify the organization of its intent to hold an auction.
- The Corporation will execute a Non-Disclosure Agreement with the defaulting Clearing Member, enabling it, among other things, to show position and collateral information to potential auction participants.
- The Corporation will identify potential participants in the auction process. Note that these entities can include other Clearing Members and/or other investment enterprises.
- The Risk and Operations Departments will conduct an analysis to determine the ability of potential auction participants to participate in the auction without causing financial or operational impairment to their businesses. Only those enterprises that, in the judgment of the Corporation meet this suitability test, will be eligible for participation in the auction. Note that in the event that Non-Clearing Member participants request to participate in the auction process, the Risk and Operations Departments must perform the suitability test not only on the potential participant, but upon its Clearing Member as well.
- Potential participants in the auction process must sign a Non-Disclosure Agreement, as a precursor to examining the portfolio and collateral content of the defaulting Clearing Member.
- The Corporation will then hold an individual auction separately for each asset class.
- Participants may bid on one or more asset classes, and will submit their bids on the basis of how much collateral they would require to assume the positions of the defaulting Clearing Member.
- The bids will be submitted on a sealed basis, and should be in the hands of the Corporation by the close of business on the date designated for auction.
- The Corporation will determine the winner of the auction on the basis of which participant has requested the least amount of collateral to support the position transfer process with priority to bidders whose risk profile improves (i.e. reduced or minimal marginal increase in risk exposure) subsequent to the inclusion of the defaulting Clearing Members positions.
- The Corporation will transfer all positions and collateral by the close of business the following day, as marked under the Corporation's routine settlement cycle.

In the event that the auction process unfolds in such a way as to create a residual balance on the books of the defaulting Clearing Member, the Corporation will freeze this

collateral, and await further instructions as to its disposition, from both the Legal Department and the Board. In the event that the auction proceeds in such a way as to generate a residual shortfall, then the Corporation, as determined by the Board, has the right to reject all bids, accept some bids and reject others, or accept the best bids submitted. Under these circumstances, the Corporation will then proceed with the implementation of additional mitigants, as set forth below:

- A negotiated allocation of existing Open Positions and associated Margin Deposits amongst surviving Clearing Members.
- By invoking Section A-404, CDCC may elect to closeout remaining Open Positions at a price(s) that it deems reasonable based on best available market information.

3.3 PORTFOLIO HEDGING

At any time during the Default Management Process, the Corporation may, if it deems appropriate, hedge the portfolio of the suspended Clearing Member in order to limit the accumulation of market and credit losses. Note that in such cases the Corporation may consider the use of instruments not part of the organization's clearing universe, including cash securities.

3.4 LIQUIDITY MANAGEMENT

While not a source of capital available for the offset of losses, the Corporation has available an array of liquidity facilities, which it may, at its discretion, call upon to assist with the funding of its loss mitigation activities. In the event of a default, the Corporation must make a determination as to how to deploy these resources. Included among its alternatives are:

- Drawing upon the Corporation's commercial bank liquidity lines, in whole or in part.
- Raising of liquidity through out-rights sales and/or Repurchase Transactions involving Securities of the defaulting Clearing Member.
- Through the exercising of its rights of re-pledging/re-hypothecation of defaulter's Margin Deposits.
- Through the exercising of its rights of re-pledging/re-hypothecation of defaulter's and survivors' Clearing Fund Deposits.

The management of this process is one that should ensue across the entire course of the liquidation efforts, and the Corporation must make routine, periodic judgments as to how and when this funding merits deployment.

3.5 LOSS ABSORPTION MECHANISM

In implementing the Default Management Process, the Corporation will aim at minimizing, to the extent possible and on best efforts basis, the losses to the Corporation and its stakeholders. If there are nonetheless losses to the Corporation, the Corporation must apply, in specified order, a series of financial resources to ensure its ongoing viability and financial solvency. The loss absorption mechanism, also referred as Default Waterfall, is described in Sub-section 1.6.

Section 4: Recovery Plan

The Default Management Process described above ensures that the Corporation has in place tools and processes to appropriately manage the risks following the default of a Clearing Member. Supplementing the Default Management Process, the Corporation has in place a Recovery Plan which provides for a defined set of actions to address any uncovered loss, liquidity shortfall or capital inadequacy, arising from participant default in in the unlikely event where the Default Waterfall proves insufficient. Rule A-10 in the Rules governs the Corporation and the Participants' obligations in a Recovery Process.

The section below provides for general information with respect to the triggers of the Recovery Process, a description of the Recovery Powers that may be used by the Corporation upon a declaration of Recovery Process, the governance supporting such process and the financial resources that may be used by the Corporation to supplement its loss absorption.

4.1 TRIGGERS FOR THE RECOVERY PROCESS

The Corporation management may recommend to the Board to trigger the implementation of the Recovery Process, in either of the following situations:

1. The Corporation reasonably believes that payments, losses and expenses incurred in connection with the suspension of one or more Clearing Members are or will be in excess of the total value of the Default Waterfall.
2. After the suspension of a Non-Conforming Clearing Member and the exercise of the normal default management tools (powers contemplated in Rule A-4) or any rights or remedies provided under the Rules, the Corporation has been, or reasonably believes that it will be, unable to close-out all the positions of such Clearing Member.

Some extreme financial stress could lead the Corporation to have insufficient Default Waterfall resources to absorb losses or support expenses, payments or obligations in connection with the default of a Clearing Member. For example, the most favorable bids received in the course of the auction may be significantly in excess of the margin associated with the positions contained in the auction as a result of market uncertainty,

or the defaulter's portfolio value may be negatively impacted by the occurrence of a market event that is greater than the market scenario that was planned for as part of the daily risk management activities. CDCC can also face a short-term liquidity pressure arising from an unexpectedly high settlement amount incurred by CDCC as a result of the defaulter's fixed income positions.

Alternatively, CDCC could also have sufficient financial resources but be unable to close-out all the positions of the defaulter following a series of failed auctions in the absence of bidder.

4.2 RECOVERY POWERS

Upon the declaration by the Corporation of the commencement of a Recovery Process, CDCC may exercise extraordinary remedies against its Clearing Members in good standing to ensure that the Corporation can continue to operate on an ongoing basis and address uncovered losses or liquidity shortfall. Such extraordinary remedies referred to as Recovery Powers are listed below and can be applied in the manner set out in the applicable sections.

4.2.1 Recovery Loss Cash Payment

During a Default Management Period, subsequent to the commencement of the Recovery Process, the Corporation may require from its Clearing Members to meet a Recovery Loss Cash Payment. The use of such tool is limited to certain conditions:

- **Trigger:** If in the reasonable judgment of the Corporation, the Recovery Event may result in the Corporation incurring obligations, losses and expenses in an amount in excess of the Default Waterfall and such amount is known or can reasonably be determined ;
- **Maximum Amount:** The maximum aggregate amount which may be required from a Clearing Member during a single Default Management Period cannot exceed such Clearing Member's required Clearing Fund deposits as of the commencement of the Default Management Period;
- **Limited Use:** The Corporation will use the financial resources accumulated through Recovery Loss Cash Payments to extinguish any outstanding loss incurred by the Corporation in connection with the Recovery Event on a pro rata basis, based on the quotient obtained by dividing the amount of each Clearing Member's Clearing Fund deposit required at the beginning of the Default Management Period divided by the aggregate amount of Clearing Fund deposits required at the beginning of the Default Management Period of all Clearing Members other than the suspended Clearing Members; and

- **Notice and Implementation:** The Corporation will communicate to each Clearing Member its proportional amount which should be provided by the next Settlement Time.

The Recovery Powers form part of the rights and remedies that may be exercised by the Corporation pursuant to a declaration of the commencement of a Recovery Process, therefore the non-payment of a Recovery Loss Cash Payment is a ground for the Non-Conforming status and may lead to the suspension of a Clearing Member.

4.3 RECOVERY GOVERNANCE

Following the declaration by the Corporation, and as approved by the Board, of the commencement of a Recovery Process (see Sub-section 4.1), the Board shall delegate to CDCC management the authority to make any reasonable decision regarding the timing and use of Recovery Powers to allocate uncovered losses caused by participants' defaults and re-establish a matched book, in accordance with the powers entrusted to the Corporation in the Rules. The decision-making around the application of recovery tools is a natural extension of the existing Default Management Process. As such, the governance in place for the Default Management Process and set out under Section 2 of this Manual will be extended for the Recovery Process. The Default Management Committee will be responsible to make decisions related to the application of the Recovery Powers with the support of the Emergency Committee.

Upon the declaration of a Recovery Process, the Corporation will notify all Clearing Members, the Exchange, all regulatory organizations or agencies having oversight of the Corporation, the Bank of Canada and any such other Entities that the Corporation considers appropriate.

As it is the case while the Corporation is managing a default pre-Recovery Process, appropriate and timely communication will be maintained between CDCC, the Board, its Risk Management Advisory Committee and its regulators.

4.4 RECOVERY LOSS ABSORPTION MECHANISM

The Corporation's capacity to absorb loss increases with the addition of the availability of Recovery Loss Cash Payment(s). However, in absorbing default-related losses, CDCC must use the financial resources in the prescribed order. As such, the loss absorption mechanism that starts with the application of the Default Waterfall, as described in Sub-section 1.6, is supplemented by any financial resources levied by Recovery Loss Cash Payment.

In the event that the Corporation is later able to recover from the defaulting Clearing Member any loss incurred by the Corporation in managing the default, it shall reimburse the financial resources of any Clearing Members and the Corporation in the reverse order that these financial resources were used to cover the losses.



DEFAULT MANUAL

February 7, 2017

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This Default Manual (the “Manual”) is intended to summarize the Rules of the Canadian Derivatives Clearing Corporation (“CDCC” or the “Corporation”) and confirm certain details concerning the actions, rights and remedies that the Corporation may take with respect to Clearing Members in financial difficulty, potentially in default or in default of obligations under the Rules. The Manual also address the actions, rights and remedies that the Corporation may take with respect to all Clearing Members upon the declaration of a Recovery Process. This Manual describes the Corporation’s possible course of action, including management of a default situation, authority, communication with a Clearing Member and implementation. **In case of conflict between the provisions set out in this Manual and the Rules of the Corporation, the Rules will prevail.** Terms with capitals which are not defined in this Manual have the meanings ascribed to them in the Rules.

A fundamental objective of a central counterparty is to ensure the integrity of payments and/or physical delivery of securities, even in the unlikely event of a Clearing Member default. Since the default of one or more Clearing Members may have an impact on the continuity of clearing operations, the Corporation must ensure that efficient mechanisms and processes are in place, capable of limiting the adverse impacts of such an event, with respect to monitoring and the determination of a Clearing Member’s Non-Conforming Member status and a Clearing Member’s suspension. As such, this Manual is meant to:

1. describe the grounds and events which may trigger the implementation of the default management process and the enforcement actions that may be taken by the Corporation throughout the process;
2. describe the governance process followed by the Corporation; and
3. describe the risk mitigation tools that can be used by the Corporation.
4. describe the Recovery Process and the related powers.

Section 1: Default Management Process - Triggers And Implementation

The grounds and events which may trigger the implementation of the steps, decisions, enforcement actions or remedies that may be taken by the Corporation, which shall be referred therein as the Default Management Process, are described below. The Rules, notably Rule A-1A - Membership in the Corporation, Rule A-3 - Capital Requirements, Rule A-6 - Clearing Fund Deposits and Rule A-7 - Margin Requirements, support CDCC's authority in these actions and must be adhered to with extreme rigor.

1.1 OBJECTIVES OF DEFAULT MANAGEMENT

Participants in the Default Management Process should at all times bear in mind the objectives of the default management exercise. These are delineated below:

- To minimize Clearing Member losses deriving from an inability of the Corporation to make settlement payments, protect Clearing Member Margin Deposit, or otherwise manage its responsibilities in a manner consistent with orderly markets.
- To ensure the continued effective functioning of the clearing process both during and after the default of a Clearing Member.
- To use all available powers and resources to protect the financial assets and positions of Clearing Members not contributing to the condition of default. This includes, wherever possible, the comprehensive and efficient transfer of Client Accounts associated with a defaulting Clearing Member, including any position maintained in such account and any Margin Deposits held by the Corporation in respect of such account, to another Clearing Member.
- To minimize the market impact of the Default Management Process.
- To ensure the continued solvency of the Corporation and timely access to liquidity both during and after the Default Management Process.
- To communicate with regulatory authorities on actions taken throughout the Default Management Process.

Corporation management, staff and agents should conduct themselves at all times during the Default Management Process in a manner consistent with these objectives, and in general without regard to other considerations.

1.2 TRIGGERS LEADING TO NON-CONFORMING OR SUSPENSION STATUS

Critical to the process of default management is, of course, defining the grounds and events which can lead a Clearing Member to default on its obligation and result in the Corporation declaring such member Non-Conforming or suspending it, where warranted.

As a general rule, the Corporation views any situation which would, in its judgment, impede a Clearing Member's ability to meet its obligations, as specified in the Rules, as grounds to declare a Clearing Member Non-Conforming. Sections A-1A04 and A-1A05 of the Rules provide the details of the grounds and events that can lead the Corporation to declare a member Non-Conforming or suspend it, respectively.

For the avoidance of doubt, as indicated in the Rules, the Corporation may in advance of, or in anticipation of a default or breach of eligibility or standard requirement, declare a Clearing Member Non-Conforming.

Where the Non-Conforming Clearing Member is insolvent or is unable or likely to be unable to meet its obligations under the Rules on a continuing basis, and has no reasonable prospect of returning to good standing or curing its default within a reasonable timeframe, the Corporation may then suspend the Non-Conforming Clearing Member. The Corporation will act accordingly for any default, whether actual or imminent, that is of such a gravity that suspension would be warranted, taking into consideration the protection of the integrity of the market.

1.3 STATUS ASSOCIATED WITH A DEFAULT

The Rules specify two distinct status levels associated with the default of a Clearing Member. The first such form is Non-Conforming status. At any point when the Clearing Member is or may become insolvent or unable to meet its obligations, management may declare that Clearing Member to be a Non-Conforming Member. Section A-1A04 of the Rules provides the grounds on which the Corporation may do so. Upon a declaration of Non-Conforming status, the Corporation is empowered with the authority, as further specified below, to undertake a wide range of mitigating actions.

Considering the gravity of the situation, the likelihood of a remediation of the default by the Clearing Member and in order to protect the integrity of the market, the Board may, in its sole discretion, choose to suspend the Non-Conforming Member.

The Corporation's management is responsible to declare a Clearing Member Non-Conforming whereas a suspension decision must be taken by the Board. Please refer to sections A-1A04 and A-1A05 of the CDCC Rules which lay out the specificities of Non-Conforming and suspension statuses respectively.

1.4 POWERS OF THE CORPORATION IN THE DEFAULT MANAGEMENT PROCESS

Imposition of Additional Margin Call in Pre-Default

In accordance with Section A-702, the Corporation, following a management decision, may, without advance notice and at its sole discretion, impose an additional Margin on

Clearing Member, whether Non-Conforming or not, for an indeterminate period. While this may be necessary under a wide range of circumstances, it is particularly relevant in situations where the Corporation has reason to believe a default is imminent but has yet to take a decision on Non-Conforming status.

The Clearing Member will be informed and will have to meet its additional Margin requirements within the same deadlines as regular Margin calls. This additional Margin will be added to the amount of Margin.

Implementation of Default Management Process: Non-Conforming and Suspension

In the event that the Corporation or the Board, as applicable, chooses to place a Clearing Member, in either Non-Conforming Member status or suspension, it must, as soon as practicable, assess the situation and ensure that any and all remedies available to it are at its immediate disposal. The Corporation must use any and all commercially reasonable efforts to manage the default process.

For further clarity, the Corporation may simultaneously declare a Member Non-Conforming and suspend such Member, without applying first the measures available under the Non-Conforming status.

Taking into consideration the context and materiality of the trigger event, the ability of the Clearing Member to correct the situation within reasonable delay, the Corporation or the Board, as applicable, may therefore choose to undertake any of the following set of actions in its efforts to mitigate associated damage.

Enforcement Actions Pursuant to a Non-Conforming Status

- Prohibit and/or impose limitations on the acceptance and / or clearance of Transactions by the defaulting Clearing Member.
- Requiring such Clearing Member to reduce or close out existing Transactions in such Clearing Member's accounts with the Corporation.
- Prevent or restrict the defaulting Clearing Member's right to withdraw any excess in Margin Deposits pursuant to Section A-607 or Section A-704.
- Transferring, requiring to transfer or transferring on its behalf, all or any portion of a defaulting Clearing Member's Client Account maintained by such Clearing Member with the Corporation, any position maintained in such account and any Margin Deposits held by the Corporation in respect of such Account, to another Clearing Member.
- Undertake any legal action against the defaulting Clearing Member that in the judgment of the Corporation may help to mitigate default-related losses.
- Sanction, reprimand, fine or impose a penalty on the defaulting Member.
- Suspend the Non-Conforming Member.

Enforcement Actions Pursuant to a Suspension

In addition to the actions that the Corporation may take under the Non-Conforming Status, CDCC may;

- Seize all Margin Deposits posted to the Corporation by the defaulting Clearing Member, including his contribution to the Clearing Fund and use it to satisfy such Clearing Member's obligation.
- Seize control of all Open Positions held by the defaulting Clearing Member.
- Gain access, and, if necessary, control of the defaulting Clearing Member prescribed records, so as to ensure the continued efficient processing of business, and to ensure the defaulting entity continues to comply with all Rules and mandates.
- Neutralize market exposures through the use of hedging instruments where, as determined by the Corporation, market conditions do not allow for an orderly auctioning or closeout of a defaulting Clearing Member's Open Positions in a timeframe which is consistent with the Corporation's risk management model.
- Render a determination as to which Firm Accounts and Market Maker Accounts of the defaulting Clearing Member (subject to the objective of protecting to the largest extent possible, all Client Accounts) may have offsets which could be netted for risk reduction purposes.
- Place all accounts of the defaulting Clearing Member on liquidation only status.
- With respect to such accounts, effect liquidation of Open Positions, either directly by Corporation staff, or as appropriate, through appointed agents.
- Schedule an auction to transfer all remaining Open Positions to other Clearing Members at best available prices.
- Potentially postpone delivery obligations if, in the judgement of the Corporation, not doing so would expose the Corporation and surviving Clearing Members to increased risk of financial loss.
- Apply any and all available financial resources, as further described below.

1.5 DEFAULT MANAGEMENT PERIOD

The Default Management Period defines the period during which Clearing Members' financial resources are potentially exposed to losses following a default from other Clearing Members.

While the exact definition is provided in the Rule A-411, the intent is to define the Default Management Period as the period starting from the suspension of a Clearing Member and ending when this default is been completely managed and the Corporation declares the

Default Management Process to be completed. A default is deemed to be completely managed when:

- i) all obligations, losses and expenses are known or can reasonably be determined and have been successfully absorbed or otherwise settled; or
- ii) the Corporation has successfully reestablished a matched book.

For example, if a second Clearing Member suspension occurs during the Default Management Period, this period is extended and will end when the two defaults have been completely managed. Hence, if that second default occurs while the Corporation is still managing a first one, the maximum amount of Clearing Members' financial resources potentially exposed to losses will remain the same for the duration of the Default Management Period whether one or several defaults are processed.

1.6 DEFAULT WATERFALL : APPLICATION OF FINANCIAL RESOURCES TO COVER DEFAULT-RELATED LOSSES

In implementing the Default Management Process, the Corporation will aim at minimizing, to the extent possible and on best efforts basis, the losses to the Corporation and its stakeholders. If there are nonetheless losses to the Corporation, the Corporation must apply, in specified order, a series of financial resources to ensure its ongoing viability and financial solvency. The sections i to iv below describe the financial resources which form the "Default Waterfall" and the order in which CDCC will apply them to cover losses associated with the liquidation of a defaulting Clearing Member. Elements i to iii are referred to "Prefunded Financial Resources".

i. Defaulting Clearing Member Resources

- **Defaulting Clearing Member Margin Deposit.** The first line of financial protection is the Margin Deposit posted by the defaulting Clearing Member as part of the Corporation's routine collateralization process; and
- **Defaulting Clearing Member's Contribution to the Clearing Fund.** As specified by the Rules, each Clearing Member must post an additional contribution to the Clearing Fund. Once the Corporation has exhausted the defaulting Clearing Member's Margin Deposit, it will next use these resources in its loss absorption effort.

If after applying these resources of the defaulting Clearing Member, a shortfall still remains, the Corporation would, as indicated below, use the resources of the Corporation to cover the losses.

ii. Resources of the Corporation (Default Risk Capital - DRC)

- CDCC has capital reserves set aside specifically for the purpose of absorbing Default Related Losses, which is currently of \$5 million. This capital therein referred to as it "Default Risk Capital".

If, after applying these resources of the defaulting Clearing Member, and of CDCC, a shortfall still remains, CDCC will, as indicated below, use the required Clearing Fund deposits of the other Clearing Members to cover the loss.

iii. Non-Defaulting Clearing Member Clearing Fund Deposits

- The Corporation would next use the remaining balance of the Clearing Fund, on a pro-rata basis as determined by the size of each non-defaulting Clearing Member's contribution.

The above set of financial resources (listed in (i) to (iii)) which form the Prefunded Financial Resources of the Default Waterfall and are readily available for the Corporation to extinguish financial losses stemming from a participant default are deemed highly reliable as they are under the control of CDCC and for this sole purpose. All Margin and Clearing Fund deposits are subject to a first ranking security interest granted by the Clearing Members to CDCC for such purpose.

iv. Additional Clearing Fund Contribution of Surviving Clearing Members

- If after applying all of the financial resources specified above, a loss still persists, the Corporation may request that the remaining Clearing Members replenish their Clearing Fund contributions, in a manner specified in Section A-610 of its Rules and apply up to a maximum of 200% of the Clearing Fund deposits required of all remaining Clearing Members, to satisfy the outstanding obligation as provided in Section A-609(5).

The Corporation must act with rigor to ensure it follows the prescribed order of the Default Waterfall, and communicate with all relevant parties in an effective fashion. In the event that the Corporation is later able to recover from any loss incurred from the defaulting Clearing Member, it shall first reimburse any contributions to the Clearing Fund of the remaining Clearing Members that were used to cover the losses, before reimbursing CDCC's own capital reserves used.

1.7 MAKING GOOD ON CHARGES TO CLEARING FUND

As described in section 1.6 above on the Default Waterfall, a non-defaulting Clearing Member is potentially exposed to a loss representing 2 times its required Clearing Fund deposits during a Default Management Period.

However, the Corporation must have the capacity to replenish promptly any depleted financial resources to ensure that CDCC maintains appropriate financial resources to continue to operate in a safe and prudent manner and maintain its Cover 1 status. As such, each Clearing Member is subject to an obligation to make good on charges to Clearing Fund whenever an amount is paid out of the Clearing Fund deposits. During a single Default Management Period, each Clearing Member is however only liable to make good of an additional 200% of its required Clearing Fund deposit. The additional contribution must be made no later than 2:00 p.m. on the Business Day following the date that the amount is paid out unless the Corporation issues a notice specifying a later date.

Section 2: Default Management Governance

In this section, the Corporation outlines the specific actions to be taken by its staff, management and the Board, in order to ensure that it quickly identifies, reacts to, and effectively manages a condition of default. The two sub-sections are:

1. Governance Structure; and
2. Roles and Responsibilities upon a Declaration of Non-Conforming or Suspension.

2.1 GOVERNANCE STRUCTURE

The Corporation's procedures for the management of a default are governed, under the auspices of its Board and by two Committees, presented below in their hierarchical order:

- Default Management Committee (DMC)
- Emergency Committee (EC)

In the default process, it is important for the Corporation to react in as timely a fashion as possible to identify the potential for a default by a Clearing Member. As such, under the authority of the President or his designee, if at any point the Corporation receives information which would, in its view, acting reasonably, likely lead to a default event by any Clearing Member, it will, as soon as practicable, convene a meeting of the Default Management Committee (DMC). The DMC is comprised of the individuals holding the following positions (or their delegates):

- President of CDCC
- Vice-President & Chief Risk Officer, CDCC
- Director Risk Management, CDCC
- Vice-President Integrated Operations, GES
- Director Strategic Initiatives, CDCC
- Chief Legal Officer, CDCC
- Chief Compliance Officer, CDCC
- Head, Client Technology Delivery - Clearing Systems, GES

Each of these individuals, in managing their departments, must act with due rigor to assess issues, identify associated magnitudes, recommend actions and inform management, to the Board and other Corporation stakeholders, as appropriate.

The responsibility of the DMC is to make decisions related to the Default Management Process, e.g. the determination of the Non-Conforming status, actions to be implemented to limit losses to the Corporation and the conforming Clearing Members. The DMC can count on the participation of a sub-committee to help performing its mandate, namely the Emergency Committee (EC).

The EC, chaired by the VP and Chief Risk Officer, is composed of all DMC members plus the following specialists (and/or any other representatives or designees deemed appropriate to involve in the process):

- CDCC Treasurer
- MX Vice-President, Regulatory Division
- Head of Corporate Communications , TMX
- Director, Market Operations, MX
- Managers, Risk Management

It will be the responsibility of the EC to provide an ongoing assessment of the situation, and to report, as appropriate, to the DMC and the Board, so as to ensure these bodies are in a position to render informed decisions throughout the process.

2.2 ROLES AND RESPONSIBILITIES UPON A DECLARATION OF NON-CONFORMING OR SUSPENSION

The Rules provide for two statuses associated with the default for a Clearing Member: Non-Conforming Member status and suspension. Non-Conforming Member status can be determined by the Corporation's management, while a suspension must be ratified by the Board.

2.2.1 DECLARATION OF NON-CONFORMING MEMBER STATUS

Grounds

Section A-1A04 addresses the grounds upon which the Corporation may declare the Non-Conforming Member status. The grounds are however not exhaustive.

Communication

The Clearing Member should notify the Corporation if it is insolvent or unable to honour its obligations under the Rules.

However, in the event that the Clearing Member is declared as a Non-Conforming Member by the Corporation, the Corporation must inform the Clearing Member in writing or by telephone.

Authority

The Corporation may decide on Non-Conforming Member status.

Required Response by Non-Conforming Members

A Clearing Member which has experienced an event, technical or otherwise, as a result of which it fails or finds itself likely to fail to meet any of its day-to-day operational needs for its business must inform the Corporation immediately of such event. Failure to notify the appropriate Corporation staff members immediately may result in any actions contemplated under the Rules, including disciplinary actions. A Non-Conforming Member may in certain cases remedy its situation via wiring required funds or posting additional collateral to the Corporation.

Contemporaneous to the notification of Non-Conforming Member status to a Clearing Member, the Corporation will ask such Clearing Member to state in writing its assertions with respect to each of the following:

- Cause of the action which placed it in Non-Conforming Member status;
- Remedies for the immediate circumstance; and
- Changes in its financial profile and operating protocols to guard against recurrence.

Corporation staff will work with the Non-Conforming Member to secure and assess its written response. Contemporaneously, the EC will work with the DMC to determine any potential immediate additional actions, including recommendations to the Board regarding suspension.

In the event that a remedy occurs in a timely fashion, the Corporation will review the Non-Conforming Member's written explanation and will then

determine next steps, including the potential removal of Non-Conforming Member status, or recommendations to the Board for suspension.

In executing these procedures, the Corporation must remain mindful of the narrow time window available to it to determine the next steps in the process. It is essential that all members of management and all Board members make themselves available as necessary to render timely and efficient decisions under these circumstances.

Implementation

The Corporation must work in concert with the Non-Conforming Member and the appropriate regulatory authorities to rectify the Clearing Member's Non-Conforming Member status.

The enforcement actions available to the Corporation, as set out under section A-401 and as further explained in the Section 1 of this Manual, are not exhaustive and are not necessarily presented in chronological order, and can be adapted as required by the Corporation according to the circumstances that prevail during the period the Clearing Member is a Non-Conforming Member.

Notifications

Once the Corporation has declared a Clearing Member to be a Non-Conforming Member, the Corporation will immediately consider its notice obligations. Those entities whose notification is considered include:

- The Clearing Members
- Appropriate regulatory authorities
- Exchanges and central clearing organizations (CCOs)

While it will be the prerogative of the Corporation to determine the timing and content of its outside disclosures, it will nonetheless immediately inform any CCOs with which the Corporation has in place a Memorandum of Understanding for such information sharing.

2.2.2 DECLARATION OF A SUSPENSION

Grounds

A Non-Conforming Member may be suspended in accordance with Section A-1A04 or any other conditions that the Corporation may deem relevant. Section 1.2 of this Manual also discusses the triggers which may lead to a suspension. In effect, the Corporation, upon approval of the Board, may decide to suspend a Clearing Member without first declaring it Non-Conforming.

Communication

The Corporation will communicate to the Clearing Member a written statement setting out the grounds for its suspension.

Authority

The Board has the authority regarding the suspension and lifting of a Clearing Member's suspension.

Implementation

Once the Board approves a suspension, the Corporation ceases to act on behalf of the Clearing Member.

According to Section A-1A05, the Corporation may then implement any of the enforcement actions set out under Section A-401 and as described in the Section 1 of this Manual.

As mentioned in Section A-1A05, the suspension may be total or may be for any function with respect to a particular security or class of securities, with respect to a particular Transaction or class of Transactions, or with respect to securities or Transactions generally.

The Board may lift a Clearing Member's suspension at any time.

Notifications

Once the Board has declared a Clearing Member to be suspended, the Board will immediately consider its notice obligations. Those entities whose notification is considered include:

- The general population of Clearing Members
- Appropriate regulatory authorities
- Exchanges and CCOs

While it will be the prerogative of the Board to determine the timing and content of its outside disclosures, it will nonetheless immediately inform any CCOs with which the Corporation has in place a Memorandum of Understanding for such information sharing.

Appeal

According to Section A-1A07, the Clearing Member may appeal a suspension decision. Such appeal does not impede the actions of the Corporation in the Default Management Process.

Section 3: Risk Mitigation Tools

Once a Clearing Member has been suspended, the Corporation shall take specific actions in order to protect the Corporation and the non-defaulting Clearing Members. Conceptually, these actions can be aggregated into three categories and are normally executed in the order presented. While some actions might have been initiated by the Corporation pursuant to a declaration of Non-Conforming status, including, namely, the transfer of Client Accounts, this section details how the Corporation will implement the risk mitigation tools, upon the suspension of the Clearing Member.

- **Prevention:** Preventing controls are the starting point of the management of a default under the suspension status. They are focused on preventing new transactions to be cleared in the suspended Clearing Member's books.
- **Control:** Such actions are focused on taking control over the suspended Clearing Member's assets and positions.
- **Risk mitigation:** Such actions are focused on transferring risks, re-establishing a matched book, and neutralizing risks, at the lowest cost possible for the Corporation and the conforming Clearing Members, while managing the liquidity risk associated with the Default Management Process.

This section provides more information on the risk mitigation tools available to the Corporation.

3.1 TRANSFER OF CLIENT ACCOUNTS

The Corporation will attempt to transfer Client Accounts, in whole or in part, to the books of other Clearing Members. Note that, as specified in the Objectives section of this Manual, the efficient and comprehensive transfer of all Client Accounts is an identified objective of the default management exercise. For the avoidance of doubt, this includes transferring any position maintained in such account, or any account carried by such Clearing Member and any Margin Deposits held by the Corporation in respect of such account, to another Clearing Member.

3.2 AUCTION AND LIQUIDATION

In order to manage a default situation and following the suspension of a Clearing Member, the Corporation must re-establish a matched book. In order to do so, the Corporation can hold an auction for the suspended Clearing Member positions or liquidate its positions.

Immediately subsequent to the declaration of a suspension of a Non-Conforming Member, the Corporation must take the appropriate and following steps to conducting an auction

designed to transfer the remaining collateral and positions to those of another Clearing Member.

- The President of the Corporation will call the most senior available representative of the defaulting Clearing Member, to notify the organization of its intent to hold an auction.
- The Corporation will execute a Non-Disclosure Agreement with the defaulting Clearing Member, enabling it, among other things, to show position and collateral information to potential auction participants.
- The Corporation will identify potential participants in the auction process. Note that these entities can include other Clearing Members and/or other investment enterprises.
- The Risk and Operations Departments will conduct an analysis to determine the ability of potential auction participants to participate in the auction without causing financial or operational impairment to their businesses. Only those enterprises that, in the judgment of the Corporation meet this suitability test, will be eligible for participation in the auction. Note that in the event that Non-Clearing Member participants request to participate in the auction process, the Risk and Operations Departments must perform the suitability test not only on the potential participant, but upon its Clearing Member as well.
- Potential participants in the auction process must sign a Non-Disclosure Agreement, as a precursor to examining the portfolio and collateral content of the defaulting Clearing Member.
- The Corporation will then hold an individual auction separately for each asset class.
- Participants may bid on one or more asset classes, and will submit their bids on the basis of how much collateral they would require to assume the positions of the defaulting Clearing Member.
- The bids will be submitted on a sealed basis, and should be in the hands of the Corporation by the close of business on the date designated for auction.
- The Corporation will determine the winner of the auction on the basis of which participant has requested the least amount of collateral to support the position transfer process with priority to bidders whose risk profile improves (i.e. reduced or minimal marginal increase in risk exposure) subsequent to the inclusion of the defaulting Clearing Members positions.
- The Corporation will transfer all positions and collateral by the close of business the following day, as marked under the Corporation's routine settlement cycle.

In the event that the auction process unfolds in such a way as to create a residual balance on the books of the defaulting Clearing Member, the Corporation will freeze this

collateral, and await further instructions as to its disposition, from both the Legal Department and the Board. In the event that the auction proceeds in such a way as to generate a residual shortfall, then the Corporation, as determined by the Board, has the right to reject all bids, accept some bids and reject others, or accept the best bids submitted. Under these circumstances, the Corporation will then proceed with the implementation of additional mitigants, as set forth below:

- A negotiated allocation of existing Open Positions and associated Margin Deposits amongst surviving Clearing Members.
- By invoking Section A-404, CDCC may elect to closeout remaining Open Positions at a price(s) that it deems reasonable based on best available market information.

3.3 PORTFOLIO HEDGING

At any time during the Default Management Process, the Corporation may, if it deems appropriate, hedge the portfolio of the suspended Clearing Member in order to limit the accumulation of market and credit losses. Note that in such cases the Corporation may consider the use of instruments not part of the organization's clearing universe, including cash securities.

3.4 LIQUIDITY MANAGEMENT

While not a source of capital available for the offset of losses, the Corporation has available an array of liquidity facilities, which it may, at its discretion, call upon to assist with the funding of its loss mitigation activities. In the event of a default, the Corporation must make a determination as to how to deploy these resources. Included among its alternatives are:

- Drawing upon the Corporation's commercial bank liquidity lines, in whole or in part.
- Raising of liquidity through out-rights sales and/or Repurchase Transactions involving Securities of the defaulting Clearing Member.
- Through the exercising of its rights of re-pledging/re-hypothecation of defaulter's Margin Deposits.
- Through the exercising of its rights of re-pledging/re-hypothecation of defaulter's and survivors' Clearing Fund Deposits.

The management of this process is one that should ensue across the entire course of the liquidation efforts, and the Corporation must make routine, periodic judgments as to how and when this funding merits deployment.

3.5 LOSS ABSORPTION MECHANISM

In implementing the Default Management Process, the Corporation will aim at minimizing, to the extent possible and on best efforts basis, the losses to the Corporation and its stakeholders. If there are nonetheless losses to the Corporation, the Corporation must apply, in specified order, a series of financial resources to ensure its ongoing viability and financial solvency. The loss absorption mechanism, also referred as Default Waterfall, is described in Sub-section 1.6.

Section 4: Recovery Plan

The Default Management Process described above ensures that the Corporation has in place tools and processes to appropriately manage the risks following the default of a Clearing Member. Supplementing the Default Management Process, the Corporation has in place a Recovery Plan which provides for a defined set of actions to address any uncovered loss, liquidity shortfall or capital inadequacy, arising from participant default in in the unlikely event where the Default Waterfall proves insufficient. Rule A-10 in the Rules governs the Corporation and the Participants' obligations in a Recovery Process.

The section below provides for general information with respect to the triggers of the Recovery Process, a description of the Recovery Powers that may be used by the Corporation upon a declaration of Recovery Process, the governance supporting such process and the financial resources that may be used by the Corporation to supplement its loss absorption.

4.1 TRIGGERS FOR THE RECOVERY PROCESS

The Corporation management may recommend to the Board to trigger the implementation of the Recovery Process, in either of the following situations:

1. The Corporation reasonably believes that payments, losses and expenses incurred in connection with the suspension of one or more Clearing Members are or will be in excess of the total value of the Default Waterfall.
2. After the suspension of a Non-Conforming Clearing Member and the exercise of the normal default management tools (powers contemplated in Rule A-4) or any rights or remedies provided under the Rules, the Corporation has been, or reasonably believes that it will be, unable to close-out all the positions of such Clearing Member.

Some extreme financial stress could lead the Corporation to have insufficient Default Waterfall resources to absorb losses or support expenses, payments or obligations in connection with the default of a Clearing Member. For example, the most favorable bids received in the course of the auction may be significantly in excess of the margin associated with the positions contained in the auction as a result of market uncertainty,

or the defaulter's portfolio value may be negatively impacted by the occurrence of a market event that is greater than the market scenario that was planned for as part of the daily risk management activities. CDCC can also face a short-term liquidity pressure arising from an unexpectedly high settlement amount incurred by CDCC as a result of the defaulter's fixed income positions.

Alternatively, CDCC could also have sufficient financial resources but be unable to close-out all the positions of the defaulter following a series of failed auctions in the absence of bidder.

4.2 RECOVERY POWERS

Upon the declaration by the Corporation of the commencement of a Recovery Process, CDCC may exercise extraordinary remedies against its Clearing Members in good standing to ensure that the Corporation can continue to operate on an ongoing basis and address uncovered losses or liquidity shortfall. Such extraordinary remedies referred to as Recovery Powers are listed below and can be applied in the manner set out in the applicable sections.

4.2.1 Recovery Loss Cash Payment

During a Default Management Period, subsequent to the commencement of the Recovery Process, the Corporation may require from its Clearing Members to meet a Recovery Loss Cash Payment. The use of such tool is limited to certain conditions:

- **Trigger:** If in the reasonable judgment of the Corporation, the Recovery Event may result in the Corporation incurring obligations, losses and expenses in an amount in excess of the Default Waterfall and such amount is known or can reasonably be determined ;
- **Maximum Amount:** The maximum aggregate amount which may be required from a Clearing Member during a single Default Management Period cannot exceed such Clearing Member's required Clearing Fund deposits as of the commencement of the Default Management Period;
- **Limited Use:** The Corporation will use the financial resources accumulated through Recovery Loss Cash Payments to extinguish any outstanding loss incurred by the Corporation in connection with the Recovery Event on a pro rata basis, based on the quotient obtained by dividing the amount of each Clearing Member's Clearing Fund deposit required at the beginning of the Default Management Period divided by the aggregate amount of Clearing Fund deposits required at the beginning of the Default Management Period of all Clearing Members other than the suspended Clearing Members; and

- **Notice and Implementation:** The Corporation will communicate to each Clearing Member its proportional amount which should be provided by the next Settlement Time.

The Recovery Powers form part of the rights and remedies that may be exercised by the Corporation pursuant to a declaration of the commencement of a Recovery Process, therefore the non-payment of a Recovery Loss Cash Payment is a ground for the Non-Conforming status and may lead to the suspension of a Clearing Member.

4.3 RECOVERY GOVERNANCE

Following the declaration by the Corporation, and as approved by the Board, of the commencement of a Recovery Process (see Sub-section 4.1), the Board shall delegate to CDCC management the authority to make any reasonable decision regarding the timing and use of Recovery Powers to allocate uncovered losses caused by participants' defaults and re-establish a matched book, in accordance with the powers entrusted to the Corporation in the Rules. The decision-making around the application of recovery tools is a natural extension of the existing Default Management Process. As such, the governance in place for the Default Management Process and set out under Section 2 of this Manual will be extended for the Recovery Process. The Default Management Committee will be responsible to make decisions related to the application of the Recovery Powers with the support of the Emergency Committee.

Upon the declaration of a Recovery Process, the Corporation will notify all Clearing Members, the Exchange, all regulatory organizations or agencies having oversight of the Corporation, the Bank of Canada and any such other Entities that the Corporation considers appropriate.

As it is the case while the Corporation is managing a default pre-Recovery Process, appropriate and timely communication will be maintained between CDCC, the Board, its Risk Management Advisory Committee and its regulators.

4.4 RECOVERY LOSS ABSORPTION MECHANISM

The Corporation's capacity to absorb loss increases with the addition of the availability of Recovery Loss Cash Payment(s). However, in absorbing default-related losses, CDCC must use the financial resources in the prescribed order. As such, the loss absorption mechanism that starts with the application of the Default Waterfall, as described in Sub-section 1.6, is supplemented by any financial resources levied by Recovery Loss Cash Payment.

In the event that the Corporation is later able to recover from the defaulting Clearing Member any loss incurred by the Corporation in managing the default, it shall reimburse the financial resources of any Clearing Members and the Corporation in the reverse order that these financial resources were used to cover the losses.