



Building a Diversified, Open and World-class Derivatives Exchange



01 | DCE Risk management Framework

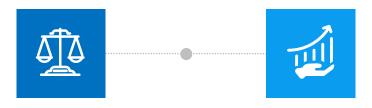
02 | DCE Risk Management Approach

Main Risks of the Futures Market



Legal Risk

Unexpected application of a law or regulation, usually resulting in a loss.

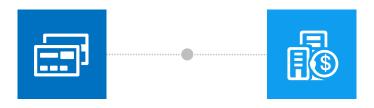


General Business Risk

Risks related to the administration and operation of an FMI as a business enterprise.

Credit Risk

A counterparty is unable to fully meet its financial obligations when due, or at any time in the future.

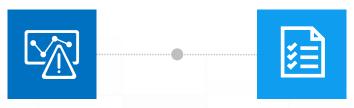


Custody and Investment Risk

Risk related to hold and invest the assets that FMIs own and those they hold on behalf of their participants.

Liquidity Risk

A counterparty will have insufficient funds to meet its financial obligations as and when expected.

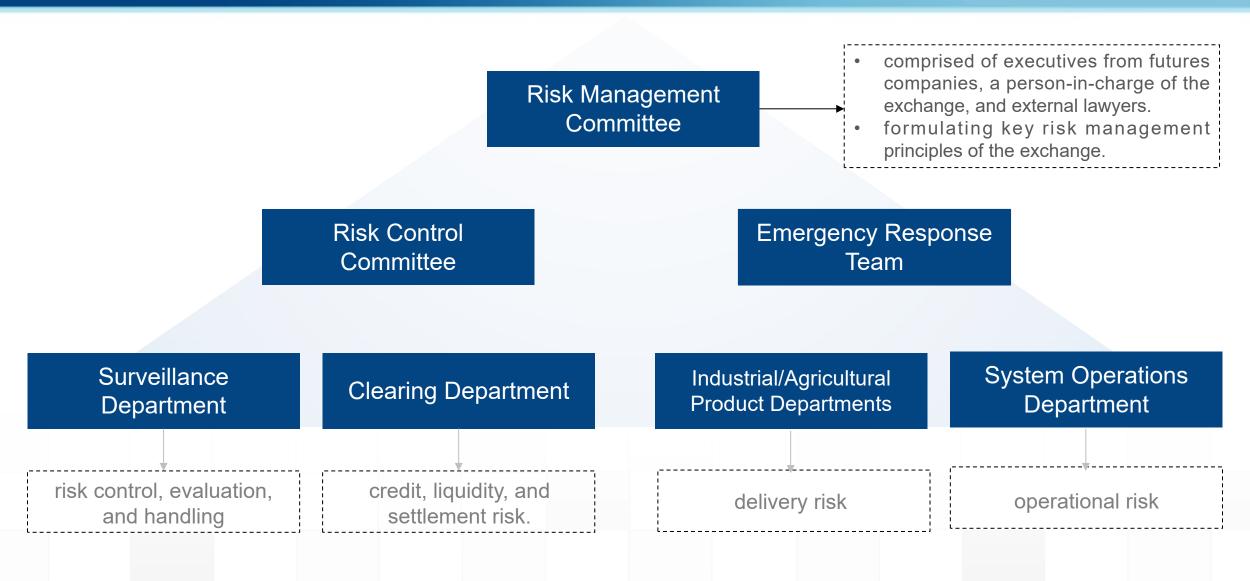


Operational Risk

Deficiencies in information systems or internal processes, human errors, management failures, will result in the reduction, deterioration, or breakdown of services provided by an FMI.

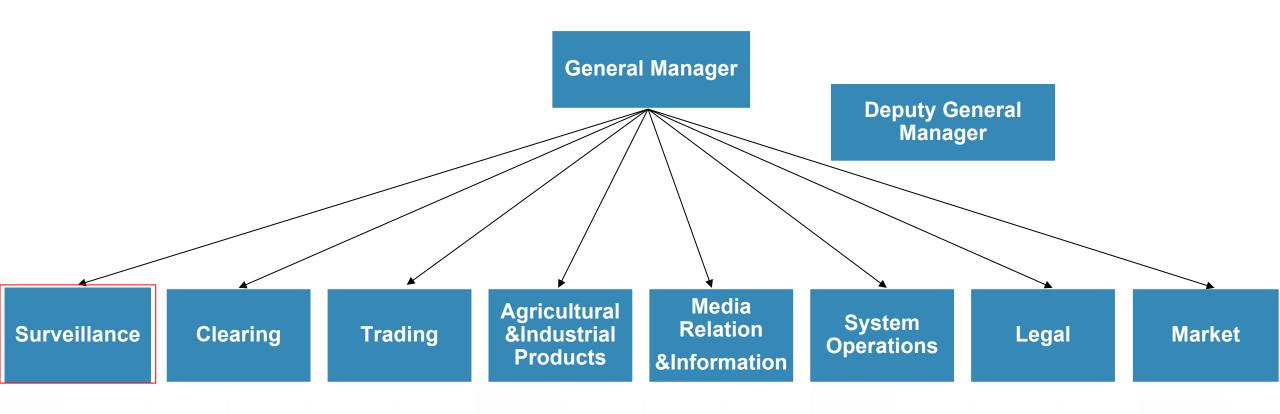
DCE Risk Management Framework





DCE Risk Control Committee





Risk Control Committee: Risk Analysis; Risk Management Decisions; Inter-department Coordination; Supervision and Management of risks

DCE Risk Assessment & Management





Risk Assessment & Management

- The pre-trade risk prevention: Margin, Price limit, Position Limit, Trading limit
- The at-trade risk control: **Large position report**, Risk warning, Hedging and Arbitrage Management, Actual-controlled Account Management, Arbitrage trading management,
- The post-trade risk prevention: **Forced Liquidation, Mandatory Tear-up,** Abnormal Trading Handling, Violation Handling.



02 | DCE Risk Management Approach

- Margin
- Price Limit
- Position limit
- Trading limit
- Large Position Report
- Forced Position Liquidation
- Mandatory Tear-up







- Pre-order check for margin sufficiency
- A percentage of the contract notional value instead of a fixed amount
- No distinction between the initial margin and the maintenance margin
- Adjust the trading margins based on the market conditions
 - before long holiday
 - markets become more volatile
- Margin methodology: HVaR, confidence level, look-back period



Notice on Adjustments to Price Limits and Trading Margins during 2020 Dragon Boat Festival Holiday Date: 19 June 2020

To member entities:

From the settlement on June 23(Tuesday), 2020, the price limits of Iron Ore futures will be adjusted to 10%, the hedging trading margins and speculation trading margins will be adjusted to 10% and 11%, respectively; ...

After the trading is resumed on June 29, 2020 (Monday), the price limits and the trading margins of Iron Ore futures shall **remain unchanged** as the same standards during the Dragon Boat Festival Holiday.

If the above adjusted price limits and the trading margins are not consistent with the existing ones, **the higher** one of the two shall prevail.



Product	Iron Ore
Trading Unit	100 MT/Lot
Price Quote Unit	CNY/MT
Minimum Tick Size	0.5 CNY/MT
Daily Price Limit Range*	4% of last settlement price
Contract Months	Jan, Feb, Mar, Apr, May, Jun, Jul, Aug, Sep, Oct, Nov, Dec
Trading Hours	9:00 - 11:30 a.m., 1:30 - 3:00 p.m., Beijing Time, Monday to Friday, and other trading hours announced by DCE
Last Trading Day	The 10th trading day of the contract month
Last Delivery Day	The 3rd trading day after the last trading day
Deliverable Grades	Iron Ore Delivery Quality Standard of DCE (F/DCE I001-2017)
Delivery Point	The delivery warehouses and delivery locations of iron ore designated by DCE
Minimum Trading Margin*	5% of the contract value
Delivery Form	Physical delivery
Ticker Symbol	I .
Listed Exchange	DCE



The fifteenth trading day of the month immediately preceding the delivery month		0)	
	Ten percent (10%) of the contract value	Twenty percent (20%) of the contract value	① Time to Expiration Based Margin (Article 5)
	Five percent (5	%) of the contract value	② Minimum Trading Margin (Article 4)
	•	n: 12% of contract value; 1% of the contract value.	③ Calculated Trading Margin (Article 4)
First day Price limit+2% Second day P	Price limit+2%	>\	Price-Limit Based Margin (Article 19)

Effective margin rate=MAX ((1,2,3,4))



Date: July 2nd,2020

Contract	Trading Margin Percentage	Trading Margin Amount(CNY/Lot)	Trading Margin Percentage	Trading Margin Amount(CNY/Lot)
	Speculation	Speculation	Hedging	Hedging
i2007	20%	16,090	20%	16,090
i2008	11%	8,508.5	10%	7,735
i2009	11%	8,156.5	10%	7,415
i2010	11%	7,942	10%	7,220
i2011	11%	7,749.5	10%	7,045
i2012	11%	7,573.5	10%	6,885
i2101	11%	7,370	10%	6,700
i2102	11%	7,238	10%	6,580
i2103	11%	7,095	10%	6,450
i2104	11%	6,996	10%	6,360
i2105	11%	6,897	10%	6,270
i2106	11%	6,842	10%	6,220

http://www.dce.com.cn/DCE/TradingClearing/Business%20Parameters/Trading%20Parameters/index.html







- Maximum price range permitted for a futures contract in each trading session
- Measured in percentage of the settlement price of the previous day
- The Minimum price limit are 6% for delivery month and 4% for all other months
- DCE adjusts price limits based on the market conditions
- When markets hit the price limit, the price limits will be expanded automatically on the next trading day



Article 18

The one-direction non-continuous quotation under the price limit means,

with respect to a particular futures during the last five (5) minutes of the trading day,

there are only purchase (sell) orders at the trading limit price and no sell (purchase) orders at the trading limit price,

or all the sell (purchase) orders are instantly filled at the limit price without opening of the trading limit price.

Example: Trading Snapshot 1

Price	quantity			Table 1	
736	2000	Bid level one			limit up price
735.5	20	Bid level two			
735	10	Bid level three			
734.5	5	Bid level four			

Example: Trading Snapshot 2

Price	quantity				Table2
736	2000	Bid level one	Ask level one	736	100
735.5	20	Bid level two			
735	10	Bid level three			
734.5	5	Bid level four			

Instantly filled, no opening of the trading limit price

	Price	quantity			Table3
limit up price	736	1900	Bid level one		
	735.5	20	Bid level two		
limit up price	735	10	Bid level three		
	734.5	5	Bid level four		



As price limit occurs, the price limit will be expanded automatically on the next trading day, and the trading margin will be increased as well

	First Price Limit Second Price Limit (Day One) (Day Two)		Third Price Limit (Day Three)
Price Limit	P1	P2=P1+3%	P3=P2+2%
Trading Margins	M1	M2=Max [M1, P2+2%]	M3=Max [M2, P3+2%]

Example

a.	Iron Ore Futures	First Price Limit (Day One)	Second Price Limit (Day Two)	Third Price Limit (Day Three)
	Price Limit	10%	13%	15%
	Trading Margins	11%	Max [11%, 13%+2%]=15%	Max [15%, 15%+2%]=17%



Date: July 2nd, 2020

Contract	Daily Price Limit Percentage	Limit Up(CNY)	Limit Down(CNY)
	Jam'y 1 1100 Emmi 1 or 50 mag		(6111)
i2007	10%	884.5	724.5
i2008	10%	850.5	696.5
i2009	10%	815.5	667.5
i2010	10%	794	650
i2011	10%	774.5	634.5
i2012	10%	757	620
i2101	10%	737	603
i2102	10%	723.5	592.5
i2103	10%	709.5	580.5
i2104	10%	699.5	572.5
i2105	10%	689.5	564.5
i2106	10%	684	560

http://www.dce.com.cn/DCE/TradingClearing/Business%20Parameters/Trading%20Parameters/index.html







- The position limit is to prevent the market order from being improperly affected by investors with oversized market share
- Position limit refers to the maximum amount of speculative position on a certain futures contract that may be held by the trading clients and it is calculated for each side of positions

Positions for Each Side

keep both long and short positions for each client.

Each side checked against the position limit

Example: Client A long 40,000 lots, short 40,001 lots i2101 and the position limit is 40,000 lots.

Client A violate position limit.

Clients

Applies only to the non-futures company members (house business only) and clients

No position limit fot futures company members and overseas brokers

Note: Futures company members are not allowed to carry house business and only serve clients.

Actual Controlling Relationship

If a client effectively controls multiple trading accounts even though the accounts are not registered under the same owner, these accounts are considered to have actual controlling relationship accounts.

The client is obligated to report the relationship to the exchange.

Their positions are aggreated for position limit purposes.

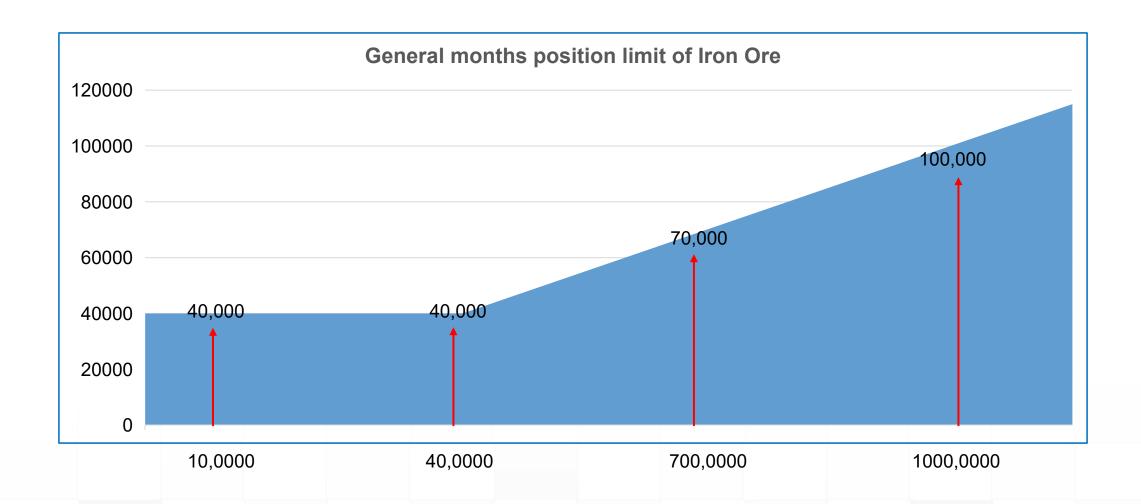


Time gradients: Different position limits are applied for different periods of trading. There are three level time gradients.

The general months of the futures contract: from the listing of the contract to the fourteenth trading day of the month immediately preceding the delivery month.

Product	Unilateral Open Interest of Contract Non-Futures Company Member		Client
	Unilateral open interest ≤400,000	40,000	40,000
Iron ore	Unilateral open interest > 400,000	Unilateral open interest ×10%	Unilateral open interest ×10%
Product	Period	Non-Futures Company Member	Client
Iron ore	From the fifteenth trading day of the month immediately preceding the delivery month	6,000	6,000
	Delivery month	2,000	2,000



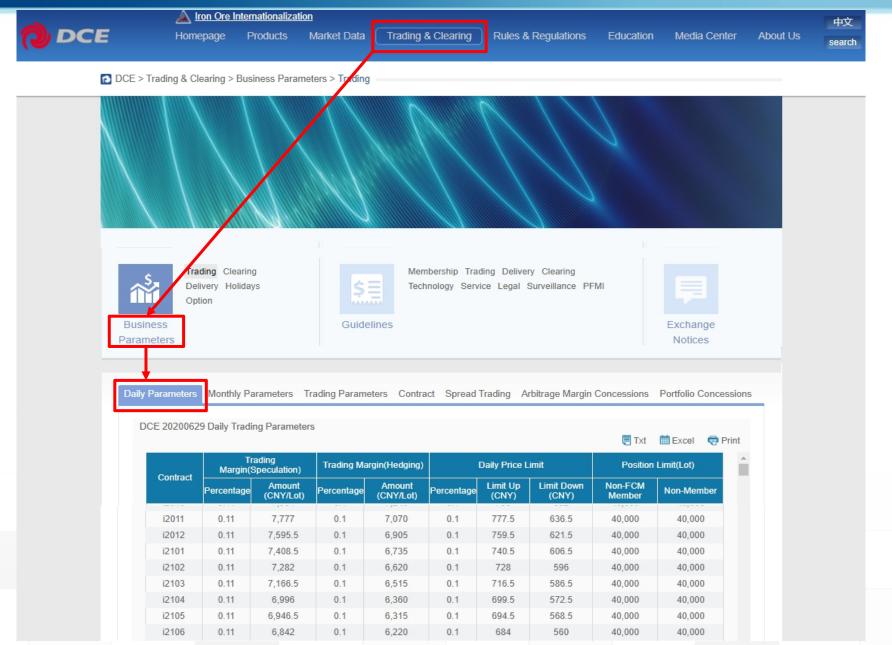




Date: July 2nd, 2020

Contract	Non-FCM Member Position Limit(Lot)	Client Position Limit(Lot)
i2007	2,000	2,000
i2008	40,000	40,000
i2009	77,002	77,002
i2010	40,000	40,000
i2011	40,000	40,000
i2012	40,000	40,000
i2101	40,000	40,000
i2102	40,000	40,000
i2103	40,000	40,000
i2104	40,000	40,000
i2105	40,000	40,000
i2106	40,000	40,000







Trading Limit



Trading Limit



- The maximum amount of trading volume for a certain contract for members or clients specified by the exchange in a certain period.
- The limits only apply to the position opening quantity, but not the liquidation quantity. They only apply to speculative trading, but not hedging.
- The Exchange may set trading limits for specific trading types, for specific contracts, and for part or all members and clients, based on market conditions.

- Mainly aimed towards preventing excessive speculation.
- a difference between China's futures market and overseas markets.
- In case of trading limits violation, the
 Exchange may take:
 telephone warning,
 request of information reporting,
 request of submitting a written promise,
 being listed into a key regulatory list,
 suspension of position opening for trading.

Trading Limit



Notice on Implementing Trading Limit Regulation on Iron Ore Futures Contracts

Date: 15 June 2020

To all member entities and related market participants:

It is decided upon discussion that starting from the trading on June 16, 2020 (the night trading session on June 15, 2020), the combined trading volume of opening long and short positions on all the iron ore futures contracts of any Non-Futures Company Members or clients is not allowed to exceed 30,000 lots on every single day.

The hedging trading volume and market-making trading volume of opening positions shall be exempted. Accounts involving actual control relationship shall be managed as one single account.

DCE will dynamically adjust the trading limit in accordance with market conditions.

Contract	Open long	Close long	Open short	Close short
i2007				
i2008				
i2009	10,000	20,000	(1)	
i2010				
i2011				
i2012				
i2101	10,000	20,000	2	
i2102				
i2103			Reje	ected
i2104			7/	
i2105	10,000	3	1 4	
i2106				
Total	30,000	40,000	1	
30	0001>30000			



Large Position Report

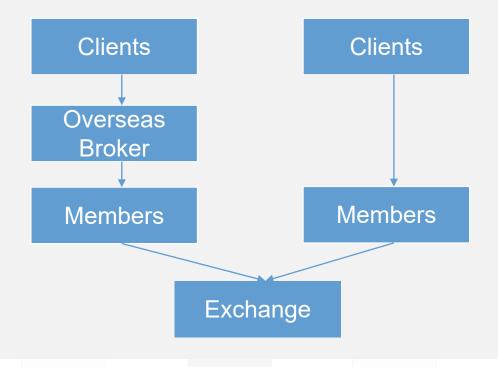


Large Position Report



- Threshold: The reporting threshold shall be no less than 80% of the speculative position limit.
- Contents: The reporting shall contain funding information and position information.
- Actual Controlling Relationship: Actual-controlled accounts are treated as one account.
- Time Requirement: Non-futures company members or clients shall volunteer to report to the exchange before 15:00 on the next trading day if the position reaches the reporting limit of the exchange.
- Other Issues: If a client has more than one trading code at different futures companies, and if the total of the positions held under all the trading codes reaches reporting standards, DCE will notify all the relevant futures company members.

- Procedures: The reporting procedure is as follows:
 - (i) The clients report directly through a futures company member;
 - (ii) The clients of overseas broker shall report through its overseas broker which then report through the futures company member. (The names of the clients of the overseas brokers will be kept confidential from the members.)









Upon occurrence of any of the following circumstances to the Member or client,

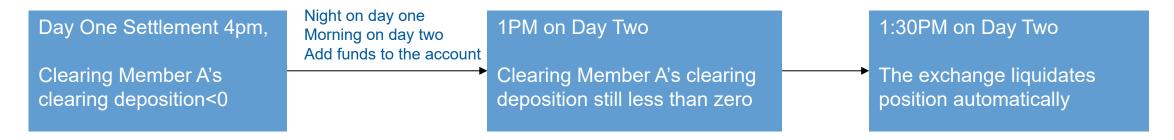


the Exchange may carry out the forced position liquidation against its positions:

- (1) the Member's clearing deposit are less than zero and fail to be fully paid up within the required period;
- (2) the open interest held by the Non-Futures Company Member and the client exceeds their position limits;
- (3) it is subject to the punishment of forced position liquidation imposed by the Exchange due to any violation;
- (4) any circumstance under which the forced position liquidation shall be carried out on the basis of the Exchange's emergency measure(s);
- (5) any other circumstance under which the forced position liquidation shall be carried out.



(1) the Member's clearing deposit are less than zero and fail to be fully paid up within the required period;



The forced position liquidation shall be carried out against all clients of the Member under the principle of equal ratio liquidation on the basis of the trading margin.

Trading margins to be released = total amount of the client's trading margins \times liquidation ratio



(2) the open interest held by the Non-Futures Company Member and the client exceeds their position limits;

Day One Market Close at 3PM

Client A's position > position limits

During the night trading session on day one and the morning session on day two, close out the over-limit positions by yourself or your clearing member

1:30PM on Day Two

The exchange liquidates the overlimit positions automatically

- The forced liquidation refers to the coercive measure of liquidation carried out by the Exchange against the relevant position in case the Member or client commit a violation.
- The trade price of the forced liquidation is formed through market trading.
- The order price of the forced liquidation is the relevant limit price.



Mandatory Tear-up



Mandatory Tear-up



In the event that the one-direction non-continuous price limit quotation in the same-direction occurs on the T+2 trading day as on the T+1 trading day with respect to a certain futures contract,..., the Exchange may decide to apply, and make public announcement on one or more of the following measures to the contract after the closing of the market on the T+2 trading day for the purpose of mitigating the market risk:

- (1) increase of the trading margins;
- (2) adjustment of the price limit range;
- (3) suspension of opening a new position for all or part of the Members;
- (4) limited withdrawal of funds;
- (5) close-out within designated time limit;
- (6) forced position liquidation; and
- (7) mandatory partial tear-up after the closing of the market on the T+2 trading day.

Mandatory Tear-up



Successively reaching price limits for the same direction for three times, and with one-sided non-continuous quotation.



The clients who have satisfied the loss conditions and post liquidation orders at the limit price.



The exchange will match the qualified profitable clients with the qualified losing clients. The liquidation is conducted at the relevant limit price.

- The mandatory partial tear-up is one of the last risk mitigation measures when the price of a contract successively reaches price limits in the same direction for three times.
- The Exchange shall pubic a Notice to investors if decied to do so.
- Since the launch of Iron Ore futures in 2013, DCE has never utilized the mandatory partial tear-up against any futures contracts.

Thank You!



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