

LME Warehouse Reform Update

London – 2 March 2015



LME warehouse reform

12 item reform package announced in 2013

Delivered

A

LILO Rule

- В
 - Commitments of Traders transparency
- C
- Publication of queues and stock data by warehouse
- D
- Separate load-out rate for steel

- Best-practice information barrier policy
- Enhanced LME investigation and action powers for artificial queues
- Creation of Physical Market Committee plus ongoing six-monthly reviews

Consultations ended 9-Feb-15

H

Legal review of the LME Warehouse Agreement

Logistical review

Premium contracts (rule changes to facilitate premium hedging solutions)

Discussion Paper

J

Assess powers to limit rents in queues as a future policy option

K

A

The Linked Load-In / Load-Out Rule

LILO implemented on 1-Feb-15

Delivered

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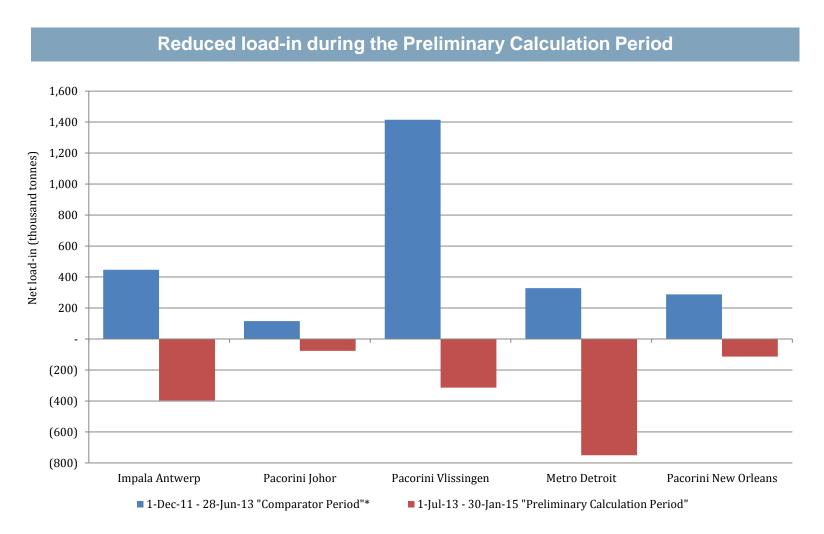
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Load-in is falling

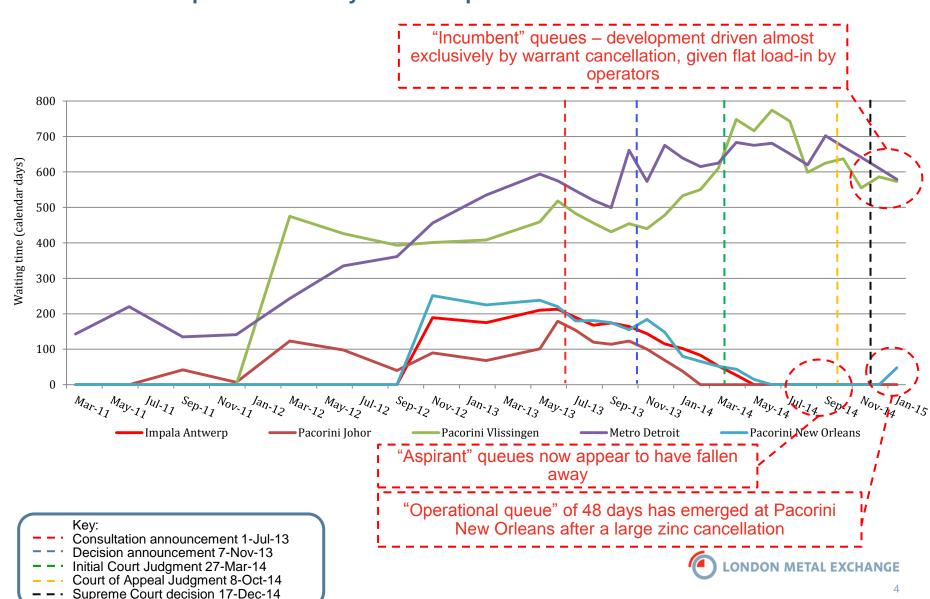
Pre-LILO pattern of load-out will now continue following implementation on 1-Feb-15





Queue development

Cancellation represents the key driver of queues. Data as of 31-Jan-15

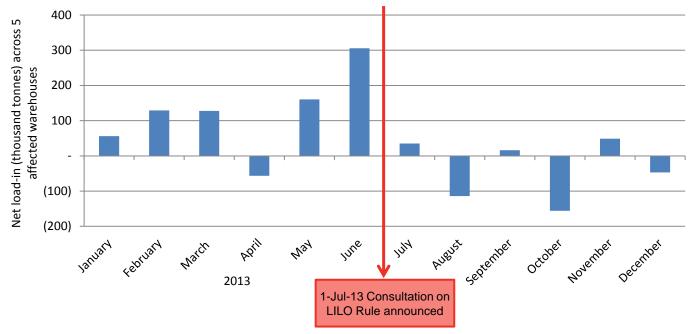




Behavioural change driven by LILO

Clear behaviour change which has stopped stocks growing

2013 net load-in across 5 affected warehouses*



Behavioural divergence (queued vs non-queued warehouses*)

	METRO DETROIT / PACORINI VLISSINGEN	ALL OTHER LME LISTED WAREHOUSES	TOTAL
GROSS LOAD-IN 2014	541 ktonnes	1,338 ktonnes	1,879 ktonnes
GROSS LOAD-OUT 2014	1,711 ktonnes	1,729 ktonnes	3,441 ktonnes
LOAD-OUT / LOAD-IN	3.2x	1.3x	1.8x

Decay Factor

Load-out requirement scenarios under LILO

The decay factor affects the rate at which queues are reduced under LILO (for a warehouse continuing to load in metal)

- The current decay factor (0.5x) broadly means that LILO must be in operation for two business days to eliminate one calendar day of queues¹
- The proposed increase in decay factor to 1.0x means that LILO must only be in operation for one business day to eliminate one calendar day of queues¹

DAILY GROSS LOAD-OUT REQUIREMENT¹

				DAILY	GROSS LO	AD OUT RE	QUIREME	NT (tonnes)			
		DAILY LOAD-IN (tonnes)										
		0	500	1,000	1,500	2,000	2,500	3,000	3,500	4,000	4,500	5,000
	0.0	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,500	4,000	4,500	5,000
	0.1	3,000	3,050	3,100	3,150	3,200	3,250	3,300	3,800	4,300	4,800	5,300
	0.2	3,000	3,100	3,200	3,300	3,400	3,500	3,600	4,100	4,600	5,100	5,600
	0.3	3,000	3,150	3,300	3,450	3,600	3,750	3,900	4,400	4,900	5,400	5,900
	0.4	3,000	3,200	3,400	3,600	3,800	4,000	4,200	4,700	5,200	5,700	6,200
	0.5	3,000	3,250	3,500	3,750	4,000	4,250	4,500	5,000	5,500	6,000	6,500
	0.6	3,000	3,300	3,600	3,900	4,200	4,500	4,800	5,300	5,800	6,300	6,800
	0.7	3,000	3,350	3,700	4,050	4,400	4,750	5,100	5,600	6,100	6,600	7,100
8	0.8	3,000	3,400	3,800	4,200	4,600	5,000	5,400	5,900	6,400	6,900	7,400
FACTOR	0.9	3,000	3,450	3,900	4,350	4,800	5,250	5,700	6,200	6,700	7,200	7,700
7	1.0	3,000	3,500	4,000	4,500	5,000	5,500	6,000	6,500	7,000	7,500	8,000
DECAY	1.1	3,000	3,550	4,100	4,650	5,200	5,750	6,300	6,800	7,300	7,800	8,300
8	1.2	3,000	3,600	4,200	4,800	5,400	6,000	6,600	7,100	7,600	8,100	8,600
	1.3	3,000	3,650	4,300	4,950	5,600	6,250	6,900	7,400	7,900	8,400	8,900
	1.4	3,000	3,700	4,400	5,100	5,800	6,500	7,200	7,700	8,200	8,700	9,200
	1.5	3,000	3,750	4,500	5,250	6,000	6,750	7,500	8,000	8,500	9,000	9,500
	1.6	3,000	3,800	4,600	5,400	6,200	7,000	7,800	8,300	8,800	9,300	9,800
	1.7	3,000	3,850	4,700	5,550	6,400	7,250	8,100	8,600	9,100	9,600	10,100
	1.8	3,000	3,900	4,800	5,700	6,600	7,500	8,400	8,900	9,400	9,900	10,400
	1.9	3,000	3,950	4,900	5,850	6,800	7,750	8,700	9,200	9,700	10,200	10,700
	2.0	3,000	4,000	5,000	6,000	7,000	8,000	9,000	9,500	10,000	10,500	11,000

DAILY NET LOAD-OUT REQUIREMENT¹

	DAILY NET LOAD OUT REQUIREMENT (tonnes)											
		DAILY LOAD-IN (tonnes)										
		0	500	1,000	1,500	2,000	2,500	3,000	3,500	4,000	4,500	5,000
	0.0	3,000	2,500	2,000	1,500	1,000	500	0	0	0	0	0
	0.1	3,000	2,550	2,100	1,650	1,200	750	300	300	300	300	300
	0.2	3,000	2,600	2,200	1,800	1,400	1,000	600	600	600	600	600
	0.3	3,000	2,650	2,300	1,950	1,600	1,250	900	900	900	900	900
	0.4	3,000	2,700	2,400	2,100	1,800	1,500	1,200	1,200	1,200	1,200	1,200
	0.5	3,000	2,750	2,500	2,250	2,000	1,750	1,500	1,500	1,500	1,500	1,500
	0.6	3,000	2,800	2,600	2,400	2,200	2,000	1,800	1,800	1,800	1,800	1,800
	0.7	3,000	2,850	2,700	2,550	2,400	2,250	2,100	2,100	2,100	2,100	2,100
8	0.8	3,000	2,900	2,800	2,700	2,600	2,500	2,400	2,400	2,400	2,400	2,400
FACTOR	0.9	3,000	2,950	2,900	2,850	2,800	2,750	2,700	2,700	2,700	2,700	2,700
7	1.0	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000
DECAY	1.1	3,000	3,050	3,100	3,150	3,200	3,250	3,300	3,300	3,300	3,300	3,300
8	1.2	3,000	3,100	3,200	3,300	3,400	3,500	3,600	3,600	3,600	3,600	3,600
	1.3	3,000	3,150	3,300	3,450	3,600	3,750	3,900	3,900	3,900	3,900	3,900
	1.4	3,000	3,200	3,400	3,600	3,800	4,000	4,200	4,200	4,200	4,200	4,200
	1.5	3,000	3,250	3,500	3,750	4,000	4,250	4,500	4,500	4,500	4,500	4,500
	1.6	3,000	3,300	3,600	3,900	4,200	4,500	4,800	4,800	4,800	4,800	4,800
	1.7	3,000	3,350	3,700	4,050	4,400	4,750	5,100	5,100	5,100	5,100	5,100
	1.8	3,000	3,400	3,800	4,200	4,600	5,000	5,400	5,400	5,400	5,400	5,400
	1.9	3,000	3,450	3,900	4,350	4,800	5,250	5,700	5,700	5,700	5,700	5,700
	2.0	3,000	3,500	4,000	4,500	5,000	5,500	6,000	6,000	6,000	6,000	6,000





Indicative queue decay profile

ESTIMATED DECAY TIME¹

Time to reach 50 day queue threshold (in years)	Pacorini Vlissingen			Metro Detroit			
	Upside	Mid	Downside	Upside	Mid	Downside	
A. 0.5x decay factor	1.5	2.6	4.1	1.7	2.4	2.6	
B. 1.0x decay factor	1.5	1.7	2.3	1.7	1.5	1.6	

2-Mar-15 4 week consultation 30-Mar-15
4 week
consideration
period following
consultation

Not later than 1-May-15² 90 days' notice of implementation

1-Aug-15² Implementation

B (

Commitments of Traders Report

First published on 5-Aug-14 for each day of the previous week

Delivered

- B Commitments of Traders transparency
 Publication of queues and stock data by warehouse
 Separate load-out rate for steel
- E Best-practice information barrier policy
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- G Creation of Physical Market Committee plus ongoing six-monthly reviews

Consultations ended 9-Feb-15

- Legal review of the LME
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- Logistical review

Premium contracts (rule changes to facilitate premium hedging solutions)

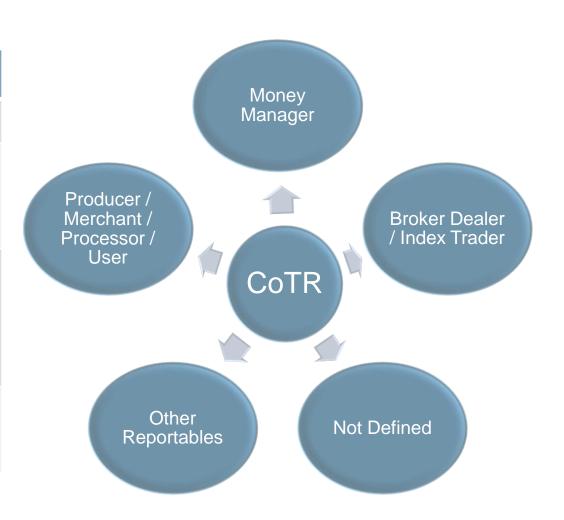
Discussion Paper

Assess powers to limit rents in queues as a future policy option

Commitments of Traders Report (CoTR)

Reports designed to increase transparency as per the industry standard

COT reporting							
Frequency	Weekly						
Delay	 Each Tuesday, for the previous week's data First reports published on 5-Aug-14, for week Mon 28-Jul-14 – Fri 1-Aug-14 						
Information	 5 reports, one for each day of the previous week Breakdown of open interest in LME traded contracts Summarised following predefined classifications 						
Dissemination approach	Free to all usersVia the LME websiteVia data vendors						



C

Publication of queues and stock data by warehouse

First published in May-14, for April-14 queue and stock data

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Separate load-out rate for steel

Implemented on 1-Apr-14

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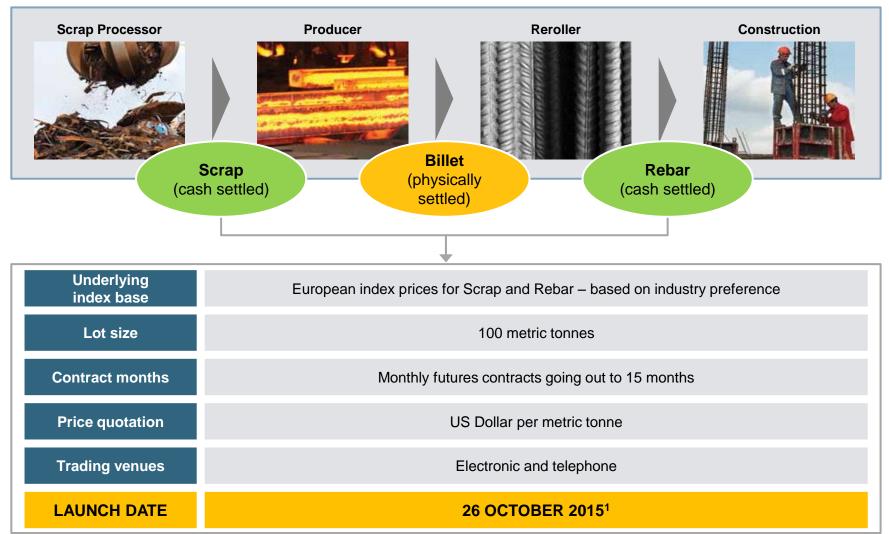
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LME's proposed new ferrous suite

New scrap and rebar futures complete the value chain for long steel products



EE

Best practice information barrier policy

Updated on 1-Jan-15 following independent review and consultation

eliverec

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F

Enhanced LME investigation and action powers

For artificial queues - implemented on 1-Apr-14

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Creation of Physical Market Committee

First meeting was in Apr-14

Delivered

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Assess powers to limit rents in queues as a future policy option

HL

Legal review of the Warehouse Agreement

Market-wide consultation ran from 7-Nov-14 to 9-Feb-15

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Legal Review of the Warehouse Agreement

Responses were broadly supportive, two key areas of debate

- Incentive reporting
 - Anonymous reporting
 - Guidance issued on acceptable incentives
 - ✓ "Ordinary course of business"
 - x Funded by queues
 - x Funded by trading houses (but can introduce parties)
- Off-warrant stock reporting
 - No intention to publish "eligible stocks"

Logistical Review

Market-wide consultation ran from 7-Nov-14 to 9-Feb-15

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Logistical Review

Covered all amendments to the Policies and Procedures which govern the LME physical network

- Load-out definition
 - Generally welcomed to prevent "merry-go-round" trades
 - Physical Market Committee to consider "staging areas"
- Separate load-out rule for aluminium alloys
- Premium contract rules

Discussion Paper items

Published on 2-Mar-15 for market discussion

Delivered

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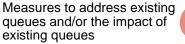
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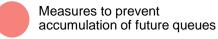
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Discussion Paper

Broad set of options for market discussion









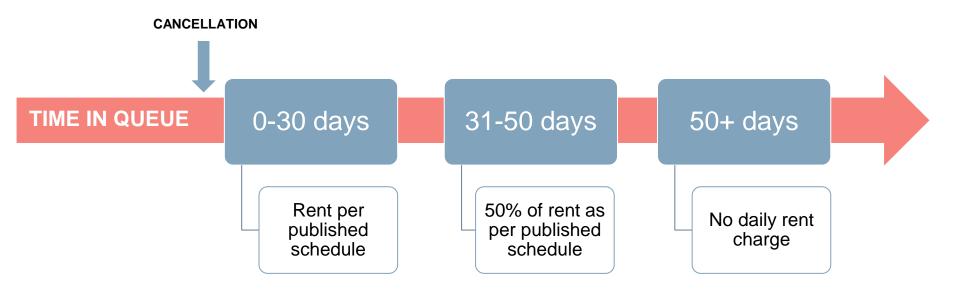
Load-Out Rate Increase ("LORI")

A near term increase in the load-out rate for late-2015 or early-2016

	CURRENT	RULES	RULES UNDER LORI						
/	0 – 150,000 tonnes of metal in storage								
	Authorised space in sq. metres (ex steel)			Authorised space in sq. metres (ex steel)	Min. daily tonnage (ex cobalt, RMC & steel)				
	2,500	800 tonnes	- 1	2,500	800 tonnes				
I	5,000	1,200 tonnes 1,500 tonnes		5,000	1,200 tonnes				
	7,500			7,500	1,500 tonnes				
		150 000 toppes at	nd above o	ve of metal in storage					
		130,000 tollines al		i metal in storage					
	Tonnage stored (ex steel)	Min. daily tonnage (ex cobalt, RMC & steel)		Tonnage stored (ex steel)	Min. daily tonnage (ex cobalt, RMC & steel)				
i	150,000 – 299,999 tonnes	1,500 tonnes	i i	150,000 – 299,999 tonnes	2,000 tonnes				
	300,000 – 599,999 tonnes	2,000 tonnes	- !	300,000 – 599,999 tonnes	2,500 tonnes				
1	600,000 – 899,000 tonnes	2,500 tonnes	1	600,000 – 899,000 tonnes	3,500 tonnes				
•	900,00 tonnes and over	3,000 tonnes	•	900,00 tonnes and over	4,000 tonnes				

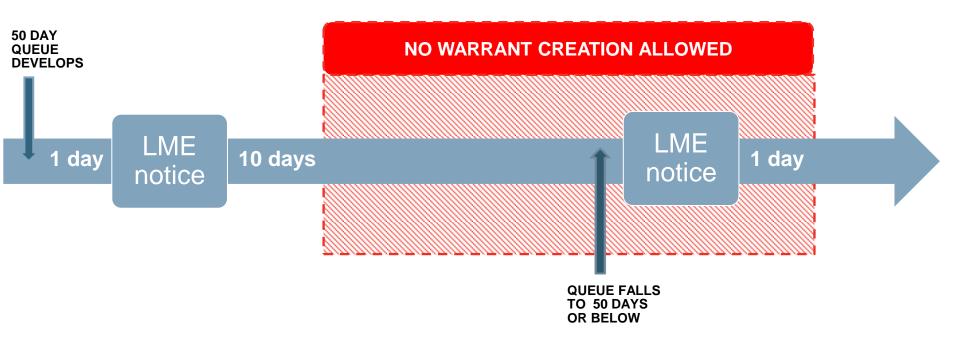
Queue-Based Rent Capping ("QBRC")

Details of potential structure - potential regulatory and litigation risks



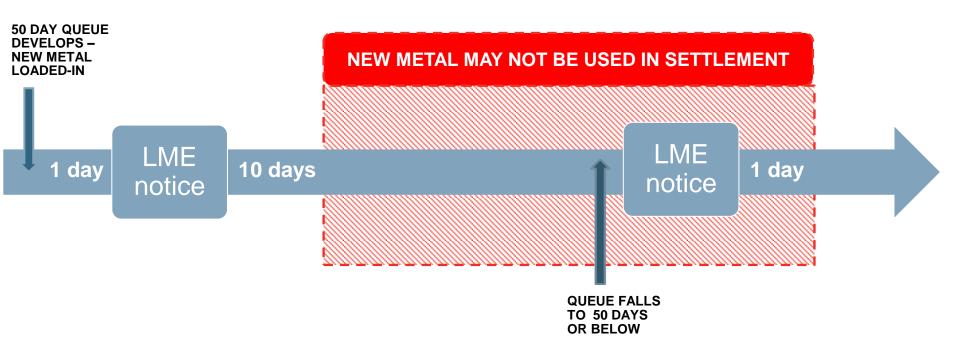
Queue-Based Warrant Restriction ("QBWR")

Ban warrant creation at affected warehouses with queues over 50 days



Modified Sellers Option ("MSO")

Ban use of new metal in settlement at warehouses with queues over 50 days



Future Queue Length Control ("FQLC")

A performance obligation on warehouses to load-out metal

The Rule

- Performance obligation for new metal only as of 1 April 2018, all metal loaded-in since 1 April 2016 would be subject to the FQLC Rule
- Warrants must be loaded-out within 50 days of cancellation
- Warehouses failing to meet these obligations would face potential sanctions

Key points

- All warrantholders would be protected by the FQLC Rule and would receive their metal within 50 days, failing which the relevant warehouse might be subject to disciplinary proceedings
- In the case of a pre-existing warehouse the FQLC Rule would be more incremental – as new metal is loaded-in and older metal is loaded-out, then the balance of metal in the warehouse would shift towards new metal, and hence eligible for the protections afforded by the FQLC Performance Obligation

Warrant-holder behaviour ("WB")

Designed to limit the impact of warrantholders on the creation and / or elongation of queues

100,000 tonnes limit to the amount of metal a warehouse can accept for cancellation by any one warrantholder (or two or more acting together)

Includes a "cooling-off" period for any cancellations and load out requests received by a warehouse from one or more warrantholders cumulatively totalling over 75,000 tonnes

May help to prevent the future build-up of queues, and the incidence of "flash" queues

Proportionate Increase in Load-Out Rate ("PILOR")

A proportionate load-out rate increase based on stock levels

TOTAL STOCK (tonnes)	DAILY MINIMUM LOAD-OUT RATE (tonnes)
100,000 – 199,999	2,000
200,000 – 299,999	3,000
300,000 - 399,999	4,000
400,000 – 499,999	5,000
500,000 - 599,999	6,000
600,000 - 699,999	7,000
700,000 – 799,999	8,000
800,000 - 899,999	9,000
900,000 +	10,000

Charge-Capping ("CC")

Details of potential structure – potential regulatory and litigation risks



- External consultant appointed by the LME
- Costs covered by additional "Charge Cap Calculation Levy" on warehouse rents

Maximum Charge Schedule published

- For each metal in each good delivery location based on worst case price assessments
- Based on worst case costbase, and post-tax return on capital 2x average of listed logistics sector peers

Right of dispute by warehouse operators

Arbitrated by the LME Special Committee

Schedule of charges submitted and published 31-Dec

 No need for LME power to query economic base of charges, given charges will be within Maximum Charge Schedule

Possible implementation 1-Oct-16



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Premium contracts

Ready to launch once discussion paper has been considered by the market

Delivered

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Discussion Paner

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Proposed new aluminium contract suite

LME's leading global aluminium contract will be supplemented with four proposed regional premium contracts

LME's new aluminium contract suite

SOUTH US **EUROPEAN EAST EAST ASIAN PREMIUM PREMIUM ASIAN PREMIUM PREMIUM GLOBAL LME ALUMINIUM**

Premium contracts

- Four regional contracts covering the key centres of aluminium demand
- Hedging of regional all-in price of aluminium
- Physical delivery of readily available metal in Premium Warehouses
 - Monthly contract to concentrate liquidity

Warehouse reform programme



Physical premium contract specifications

Specifications for the LME Premium Futures Contracts

Contract specification	Description							
Contract names	LME US Aluminium Premium	LME Western Europe Aluminium Premium	LME Eastern / Premium	Asia Aluminium	LME South-Eastern Asia Aluminium Premium			
Regions	Midwest, Northeast and South US regions (as per US Census Bureau)	South-Eastern Asia (as per UN Geoscheme M49 classification)						
Underlying metal	High grade primary aluminium prem	um warrant in the designated region						
Lot size	25 tonnes							
Prompt dates	Third Wednesday of each maturity n	nonth, subject to trading regulations						
Maturity months	Monthly out to 15 months							
Price quotation	US dollars per tonne							
Clearable currencies	US dollar							
Position limits	An appropriate position managemen	t regime will be implemented						
Minimum price fluctuation (tick size) per tonne	Tick sizes to follow the main LME Al Outrights Ring: \$0.50 LMEselect: \$0.25 Inter-office: \$0.01	uminium contract:	Carries Ring: LMEselect: Inter-office:	\$0.01 \$0.01 \$0.01				
Last trading day and time	By 12.30 (London local time) two bu	siness days before the third Wednesday	of the contract i	month trading in the exp	iring contract			
Settlement type								
Trading venues	Ring, LMEselect, inter-office telephone							
Trading hours	Ring: 5 minutes for all regions at end of Ring 2 for Official Prices and Afternoon Kerb for Closing Prices LMEselect: 01:00 – 19:00 London local time Inter-office: 24 hours a day							
Margining	Initial and contingent variation marg	ns applied per LME Clear risk managem	nent parameters					
LAUNCH DATE:								

26 OCTOBER 2015*



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http://www.lme.com/trading/warehousing-and-brands/warehousing/warehouse-consultation/

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