

To: All members, warehouse companies, London agents and other interested parties

Ref: 15/142 : A138 : W044

Date: 27 April 2015

Subject: ADJUSTMENT TO THE DECAY FACTOR IN THE LINKED LOAD-IN /

LOAD-OUT RULE

Summary

1. Following a consultation with LME-listed warehouses and other interested parties, the decay factor under the Linked Load-In / Load-Out Rule ("LILO") will be increased from 0.5x to 1.0x with effect from 1 August 2015, being the start of the Third Calculation Period under LILO. This adjustment in the decay factor will, broadly, increase the rate at which queues will fall at affected warehouses, provided such warehouses continue to load in metal.

Background

- 2. LME Notice 15/071: A070: W024 (the "Consultation Notice") initiated a four week consultation with LME-listed warehouse companies and other interested parties regarding the LME's intention to increase the decay factor which forms part of LILO. The Consultation Notice explained the background to, and reasons for, the proposed increase, considered benefits and unintended consequences, and set out a proposed timetable for implementation.
- Capitalised terms not otherwise defined herein shall have the meaning ascribed to them
 in the revised Warehouse Agreement (the "Agreement") and Policy on Approval and
 Operation of Warehouses (the "Policy").

Responses to the Consultation

4. The LME received nine responses to the consultation: four were clearly in favour and four were clearly against the increase in the decay factor; one did not express a definitive view either way. The LME summarises the responses below and addresses the key points made by the respondents.

In favour of the increase in the decay factor

5. The LME received comments in favour of the increase in the decay factor from aluminium consumers and from warehouse companies. Those in favour noted that LILO, as amended with the proposed increase in the decay factor, is important to address the current queues as well as creating a disincentive to the accumulation of future queues.



They argued that the rate of queue decay, absent the increase in the decay factor, would be too slow.

- 6. Certain respondents argued that LILO as amended, by itself, would be insufficient to reduce queues in a timely manner, given increases in capacity at certain DP Warehouses and the delays in implementation to LILO. One respondent asserted that an estimated time of 1.5-2 years to reach the gueue threshold of 50 days was too long. Two respondents noted the competitive advantage regarding the ability to pay inducements to attract metal that DP Warehouses with queues may have. One respondent proposed increasing the decay factor to 1.25x for aluminium for the next two years. The LME is of the view that the proposed increase in the decay factor strikes the appropriate balance between the need to reduce queues in a timely manner (i.e., on roughly the same schedule as was originally proposed during the consultation on LILO in 2013 (see Notice 13/208: A201: W076) (the "2013 Consultation")) and the logistical and other considerations regarding load-out from DP Warehouses. The LME recognises that the presence of any queue at a warehouse will give that warehouse operator the potential to offer an incentive funded by the expected rent in the queue - however, in this regard, the LME notes its enhanced powers against the payment of abusive incentives, and specifically those incentives funded by gueues.
- 7. One respondent noted that, in the longer term, LME metal should be available with a maximum waiting time of 20 days, and that the LME should cast its load-out requirements by reference to waiting time (in days), rather than minimum daily load-out (in tonnes). The LME notes that potential structural changes arising from the recent discussion paper (Notice 15/072: A071: W025) (the "Discussion Paper") could represent an appropriate route to achieve an outcome of this nature. This will be addressed via a separate channel, as explained below. In relation to the appropriate level of the queue threshold, the LME considered the queue threshold during the 2013 Consultation, and the LME is of the view that the queue threshold remains at the appropriate level, striking a balance between the competing factors set out at section 6.5.1.3.1 of the report following the 2013 Consultation (the "2013 Consultation Report").
- 8. Certain respondents combined their response to the Consultation Notice with responses to the Discussion Paper, and other comments on the LME's physical network reform, including the recent decision notice on the Agreement (Notice 15/069: W022) and the decision notice regarding the policies on the approval of good delivery points and on the approval and operation of warehouses (Notice 15/070: A069: W023). Topics covered in this regard included (a) the LME's enhanced investigation and action powers regarding queues, (b) the legal review of the Agreement, (c) the logistical review, (d) the possibility of a "staging area", and (e) capping rent in queues. Such issues are separate from the increase in the decay factor, are therefore outside the scope of this consultation, and the LME will address these via separate channels in due course.



Against the increase in the decay factor

- 9. The LME received comments against the increase in the decay factor from warehouse companies, companies associated with warehouse companies, and producers. Those against made a number of arguments. Certain respondents were critical of the LME making what they perceived as too many rule changes in too short a period of time. One respondent argued that the "frequent" rule changes have actually exacerbated the queues, as the rule changes have effectively reduced the holding costs for metal owners with metal in the queues, thus incentivising cancellations. One respondent argued that "repeated interventions" by the LME are themselves a source of market disorder, and that the LME is seeking to influence market pricing. One respondent argued that it was unfair and unreasonable of the LME to propose an increase in the decay factor shortly after the introduction of LILO. One respondent argued that the LME is favouring physical users over warehouse companies. One respondent argued that bringing the most important LME warehouses into economic distress will not maintain an orderly market. The LME does not agree with these arguments: as explained in the Consultation Notice, the LME views the increase in the decay factor as necessary in order to, amongst other things, comply with its regulatory obligations including ensuring that the market is operating in an orderly manner, reduce the queues over an appropriate period of time, and compensate for the delay caused by the judicial review proceedings. The LME set out approximate queue reduction times in the Consultation Notice. The "downside" scenario for Pacorini Vlissingen would take 4.1 years to reduce the queue beneath the queue threshold of 50 days with a decay factor of 0.5x; it would take 2.3 years with a decay factor of 1.0x¹. Having considered the consultation responses and when balancing multiple competing factors (including, as set out above, the need to reduce gueues in a timely manner in order to comply with relevant regulatory requirements, and the logistical and other considerations regarding load-out from DP Warehouses), the LME is of the view that 4.1 years is too long, particularly given the 10 month delay as a result of the judicial review proceedings. There will clearly be sections of the market that view 2.3 years as too long, and would like the LME to take action which would ensure the queues would fall even quicker. However, the LME is mindful of the logistical burden placed on affected warehouses. The LME has noted in the 2013 Consultation Report and subsequently that, even if cancellations might initially increase the queue length at certain warehouses, LILO (as amended with the increased decay factor) is ultimately expected to reduce the queues and, in the view of the LME, does not impose unreasonable obligations on any warehouse company or other market participant.
- 10. Certain respondents argued that the LME's focus is misplaced. In the view of these respondents, the queues are due to macro-economic factors and/or are the result of warrant-holder behaviour. One respondent argued that the LME should better articulate the fact that queues are the result of macro-economic factors and not just warehouse

¹ The LME noted in the Consultation Notice that these calculations were based on a number of modelling assumptions and noted that any interested party wishing to understand the modelling approach in greater detail, including the assumptions, was welcome to contact the LME to arrange such a discussion. The LME did not receive any requests for such a discussion.



behaviour and that the LME should focus its efforts on controlling warrant-holder behaviour. Another respondent asserted that warrant-holders are generally financial, rather than physical, market participants, and hence the rationale for providing ready access to metal is less clear. Another respondent argued that the market is not disorderly, and that market participants who cancel warrants leading to queues do so after economic analysis knowing they would join a queue. Although macro-economic factors are relevant (as explained by the LME in Section 3 of the 2013 Consultation Report), the behaviour of warehouse companies is also an important factor. For the reasons already articulated, the LME believes that further action to address the queues is necessary. The 2013 Consultation Report clearly articulated the effect that queues have on the market and pricing (see in particular sections 5 and 6). The LME notes that warrant-holder behaviour is an issue which is discussed in the Discussion Paper, and will therefore be addressed via separate channels in due course.

- 11. Certain respondents argued that the increase in the decay factor is unnecessary: that even during the preliminary calculation period under LILO, affected warehouse companies have experienced net outflows. In the Consultation Notice, the LME stated that one driver for the proposal to increase the decay factor is the need to compensate for the delay caused by the judicial review proceedings. Certain respondents questioned this linkage, given the net load-out behaviour of warehouses during the extended Preliminary Consultation Period.
- 12. Although affected warehouses have demonstrated net load-out during the Preliminary Calculation Period, this does not mean that warehouses have loaded-out as much as would have been required if LILO had come into effect on 1 April 2014 as originally planned. In particular, under LILO every load-in gives rise to an increased load-out obligation so even a warehouse demonstrating net load-out would experience a further load-out requirement under LILO, unless load-in stopped entirely.
- 13. The LME has considered this in the context of the two warehouses with the longest queues in the LME system. Metro Detroit has broadly ceased load-in activity, and hence its load-out requirements would not have been increased by LILO if it had come into effect on 1 April 2014 nor will be increased by the increase in decay factor should they continue not to load in metal. However, Pacorini Vlissingen, which has been undertaking load-in activity, would have been subject to a greater load-out requirement if LILO had come into effect on 1 April 2014. Accordingly, the LME maintains that time has been lost as a result of the delay to LILO caused by the judicial review proceedings.
- 14. Certain respondents have noted that metal availability is not an issue despite the existence of queues, and that metal stocks will fall due to macro-economic factors. One respondent argued that by "tinkering" with its rules the LME undermined confidence in the physical delivery network, constituting unwarranted market intervention at a time when "all current evidence" points to declining warehouse queues and ample metal availability for consumers. The LME does not agree that this is an unwarranted intervention. The LME has clearly explained in the 2013 Consultation Report and in the



Consultation Notice why queues pose a threat to the orderly functioning of the LME's market and the reliability and integrity of the LME's price discovery arrangements, and why action to address such queues is necessary. The Consultation Notice also set out the benefits which will likely result from the decay factor increase. The current evidence does not indicate that warehouse queues will decline, or that the dislocation between the LME price and the price of equivalent metal in the physical market (which does not relate to the availability of metal for consumers) will be addressed, over an appropriate period of time: the queues at Vlissingen and Detroit for delivery of aluminium stand at 510 and 436 days respectively as of the end of March 2015.

- 15. Certain respondents argued that the increase in the decay factor raises health and safety concerns. One respondent accused the LME, and Oliver Wyman (the independent consultants engaged to carry out the 2014 logistical review)² of having failed to take the time to understand its position in relation to health and safety concerns. The LME agrees that concerns relating to health and safety are important. However, the LME is of the view that affected warehouses companies have the logistical capability to comply with increased load-out obligations due to the revised decay factor. Furthermore, the LME also notes that, to the extent that any affected warehouses companies think that health and safety issues may be raised by increased load-out obligations, they are able to eliminate any such issues by moderating their load-in, which would reduce their load-out obligations under LILO.
- 16. Two respondents cited the fact that they have made investments based upon an expectation of certain rules being in place, and the increase in the decay factor leaves such respondents facing serious financial losses. One respondent argued that it had invested considerable sums in expanded capacity, which had been approved by the LME, and it was inequitable for the LME to perform a "u-turn" in its rules which would leave the company facing significant losses for many years. The LME received one response from a joint venture partner of a warehouse company which has entered into lease arrangements with that warehouse company. This respondent argued that the LME should have been aware of its economic interest because it approved the space for the warehouse company, and that the LME should take this interest into account. However, the LME notes that it did clearly reserve the power to increase the decay factor in the Policy during the 2013 Consultation and, following that consultation, explicitly stated that it would keep the decay factor under review and reserved the right to make changes to it in the future. The LME views the increase as necessary in order, amongst other things, to ensure the orderly operation of the market pursuant to its regulatory obligations. This is not determined by the economic interests of one particular section of the market, or indeed any individual actors in the market. The LME further notes that arrangements between warehouse companies and third parties are a matter for those parties, not the LME.

²The LME notes that minimum load-out rates and the load-in / load-out mechanism were explicitly excluded from the scope of the Oliver Wyman logistical review.



- 17. One respondent argued that any increase in the decay factor should have been made, if at all, when the LME announced the introduction of LILO following the end of the judicial review proceedings in October 2014 and that, having failed to do so then, the LME is "estopped" from doing so now. The same respondent accused the LME of "surprise tactics" by proposing the decay factor increase now. The LME does not agree with these arguments. The Policy does not place a limit on when the LME may exercise its power to adjust the decay factor contained in the Policy. The Policy expressly reserves this power in order to enhance the orderly functioning of the market or to prevent abusive behaviour or for any other reason. The LME also notes that, as a Recognised Investment Exchange under the Financial Services & Markets Act 2000, it has the power to make and vary its rules as appropriate.
- 18. Certain respondents were critical of an alleged lack of explanation as to why the LME views an increase in the decay factor as necessary. According to such respondents, the LME has not given sufficient reasons for the increase or explained why queues are an issue, and has instead only given vague allusions to, amongst other things, (i) comments from certain stakeholders, (ii) references to regulatory concerns, without an explanation as to why the regulatory concerns have changed since the proposed introduction of the original LILO rule in 2013, and (iii) the delay caused by the judicial review proceedings. One respondent criticised the LME for not providing evidence of why the market was operating in a disorderly manner (a premise with which that respondent disagreed), or evidence of the view of the Financial Conduct Authority ("FCA") regarding this. The LME has clearly explained in the 2013 Consultation Report, the Consultation Notice and elsewhere, the reasons why (a) queues are a problem which affect the orderly operation of its market, and (b) the increase in the decay factor is necessary at this point in time. The fulfilment of the LME's regulatory obligations to maintain an orderly market is clearly central to the LME's operation. As explained in the Consultation Notice, the persistence of queues has attracted considerable regulatory focus and affects the LME's assurance to the FCA that its warehousing arrangements are operating in a way that enable it to satisfy its regulatory obligations, including the obligation to ensure that its market continues to operate in an orderly manner and that the LME price accurately reflects the underlying value of the metal. The regulatory context has also been affected by the report of the United States Permanent Subcommittee on Investigations, which was released in November 2014, and the delay to the introduction of LILO caused by the judicial review proceedings. The combination of such factors has contributed to the LME's decision that an increase in the decay factor is necessary at this point in time. The details of discussions between the LME and its regulators, including the FCA, are confidential and cannot be made public (indeed, to do so would risk putting the LME in breach of its regulatory obligations). However, the Consultation Notice clearly explains why the LME's assurance regarding the orderly operation of its market is so important.
- 19. One respondent suggested that the LME should investigate specific remedies for the Vlissingen and Detroit warehouses, recognising that deliveries into these warehouses are likely to represent expired financing deals and should not be counted against load-out obligations. According to this respondent, this would "allow free float warrants to be



restored at the two affected warehouses and assist the LME with maintaining sufficient settlement liquidity to reduce recent spread volatility". The LME does not agree that such a proposal would be workable, given the difficulties inherent in the classification of physical metal into that arising from expired financing deals and that arising from other usage patterns. The view of the LME remains that LILO represents the best option to address queues and prevent queue growth at this time.

20. One respondent argued that the LME should focus on providing adequate market transparency. Such concerns are outside the scope of this consultation, and the LME does not propose to address them further here. However, the LME notes that the Physical Markets Committee is currently considering the nature of information which the LME publishes to the market and this will be addressed via a separate channel.

Other

- 21. One respondent did not express a clear view in favour of or against the proposed increase in the decay factor. This respondent alleged that the proposed increase was designed mainly to satisfy the LME's regulators that it is acting to assuage the concerns of a small, but highly vocal, segment of the physical metals industry who have received powerful political backing in the US. As explained in the Consultation Notice, the proposed increase is necessary so that the LME can continue to comply with, and give assurance to the FCA that it is complying with, its regulatory obligations, including the obligation to ensure that its market continues to operate in an orderly manner and that the LME price accurately reflects the underlying value of the metal. This is extremely important. However, the LME also clearly set out in the Consultation Notice a number of other important reasons for increasing the decay factor.
- 22. The same respondent argued that the issue of premiums and price discovery is largely confined to aluminium, and that eliminating queues would not necessarily reduce premiums in aluminium to historical levels. The LME acknowledges that it is likely that there are macro-economic factors affecting the level of the premium in aluminium aside from the queues. The LME's role, pursuant to its regulatory obligations, is to reflect those macro-economic factors by ensuring that the LME price accurately reflects the underlying value of the metal, not to influence them. The LME has no interest, in an economic sense, in the levels of premiums. The LME's only interest is to ensure that its market operates in an orderly manner and that price convergence is as effective as possible, pursuant to its regulatory obligations. The LME has clearly set out in the 2013 Consultation Report, the Consultation Notice and elsewhere the effect that queues have on price discovery on the LME and why the increase in the decay factor is aimed at ensuring the market will operate in an orderly manner.
- 23. The same respondent also argued that the LME should target the increase in the decay factor only at the two warehouses with persistent queues rather than at all warehouses. The LME notes that LILO only affects warehouses with queues of over the queue



threshold of 50 days and therefore it does only target warehouses with persistent queues.

Revised Policy on Approval and Operation of Warehouses

- 24. The revised Policy is attached to this Notice. The only substantive change is the amendment of the decay factor from 0.5x to 1.0x. The other minor changes are a clarification of the definition of "Free in Container Yard" in Clause C12 and a correction to the paragraph numbering. This version of the Policy will take effect on 1 August 2015, being the start of the Third Calculation Period under LILO and following the 90 days' contractual notice period stipulated in the Agreement.
- 25. For the avoidance of doubt, the version of the Policy effective 1 June 2015 (i.e., including the amendments to the Policy as promulgated by Notice 15/070: A069: W023, but excluding the amendments outlined in this Notice) will still come into force on 1 June 2015.

Matthew Chamberlain Head of Business Development

cc: Board directors
User Committee
All metals committees
Physical Market Committee
Warehouse Committee

Appendices:

- A. Revised Policy on Approval and Operation of Warehouses, effective 1 August 2015 (clean copy)
- B. Revised Policy on Approval and Operation of Warehouses, effective 1 August 2015 (changes tracked to previous version, effective 1 June 2015)



LME POLICY ON THE APPROVAL AND OPERATION OF WAREHOUSES, REVISED [1 AUGUST 2015]

A) Warehouses

- 1. Applicants to be a Warehouse will be considered for approval and listing in an existing or new Delivery Point subject to completion of a Warehouse Agreement application form supported by evidence of insurance, capital adequacy and other documents as detailed by the LME from time to time. The LME will inspect premises and operations offered for warehousing to the LME prior to any listing to ensure they suit the logistical nature of the Location as required by the LME. The LME will state its needs in this respect when sending the applicant the application form. The LME has discretion to accept or decline an application for approval to be a Warehouse or attach specific conditions to approval to be a Warehouse.
- 2. A Warehouse shall have staff with sufficient experience in metal storage, logistics and systems to ensure that the Warehouse is able to comply with all applicable requirements on an ongoing basis. The LME may, in its reasonable discretion, reject an application from an applicant which is unable to demonstrate compliance with this requirement.
- 3. Applicants for approval shall be required to demonstrate that they do not:
 - (a) control the operation of any infrastructure or the provision of any service in the Location / Delivery Point that would be critical to any other Warehouse, or any company wishing to become a Warehouse, in the Location / Delivery Point concerned (including, without limitation, terminal operators which may operate all or most of the berths within a port; a logistics company providing all or most of the logistics services in the port (haulage and warehouse operations); or a company that owns all or most of the real estate/warehouses of the Location); or
 - (b) otherwise exercise control in the Location / Delivery Point;
 - such that the LME would have a reasonable concern that the applicant's operation of a Warehouse could be detrimental to competition.
- 4. A Warehouse must comply at all times without limitation with: this policy and any other notices or policies issued by the LME, from time to time which apply to Warehouses; and the Warehouse Agreement (together the "Warehouse Requirements").



B) Transportation

Transport links

- 1. All Authorised Warehouses must have adequate transport links and be situated in close proximity to major highways.
- 2. With the exception of inland Delivery Points, all Authorised Warehouses must have adequate transport links and be situated in close proximity to water loading facilities.
- 3. All Authorised Warehouses located in Germany, Belgium, Netherlands, Sweden and the US must have adequate transport links and be situated in close proximity to railheads.
- 4. All Authorised Warehouses in inland Delivery Points must be directly connected to a rail network.

The LME, respecting such confidentiality as it deems necessary and appropriate, will undertake its own enquiries, as it sees fit, from its members/trade entities etc. to evaluate any applications prior to submission to EXCOM for consideration.

C) Common standards of working practices and facilities for Warehouses

- 1. For each 2500 sq. metres of space (not including open storage compounds for steel) there must be access by means of an operational door for vehicle loading/unloading, with a minimum of 2 doors per Authorised Warehouse.
- 2. The minimum daily delivery tonnage must be in accordance with the tables below. Where the delivery requests exceed the minimum daily delivery tonnage for the capacity on the table below, the LME will regard the standard as applying over the number of days necessary to complete the deliveries, as per the table (e.g. if the requests for the delivery of 2000 tonnes apply to a DP Warehouse's capacity of 2500 sq. metres, the standard would be to deliver in 3 days with no reference to the performance on any one of those days). The LME would, however, expect the DP Warehouse to act reasonably when allocating the tonnage delivered out in each of those days.

DP Warehouse's authorised space in sq. metres (excluding steel storage facilities)	for all metals (excluding cobalt,
	RMC and steel)
2,500	800 tonnes
5,000	1,200 tonnes
7,500	1,500 tonnes



The above table applies to all DP Warehouses who are storing up to 300,000 tonnes of metal. For DP Warehouses who are storing 300,000 tonnes and above, the following table is applicable.

	Warehouse's uding steel)	tonnage		Minimum daily delivery tonnage for all metals (excluding cobalt, RMC and steel)
300,000 tonnes to 599,999 tonnes			2,000 tonnes	
600,000 tonnes to 899,999 tonnes			2,500 tonnes	
900,0	900,000 tonnes and over			3,000 tonnes

NB: The daily delivery tonnage is for deliveries out only and does not include deliveries in.

- 3. Where a DP Warehouse's tonnage stored increases beyond any of the 300,000, 600,000 or 900,000 tonnes thresholds, the applicable revised minimum daily delivery tonnage shall have effect from the date which is 30 days from the date the threshold is passed. This will allow the Warehouse to implement the necessary scheduling changes in order to meet the increased minimum daily delivery tonnage. However, where a DP Warehouse's tonnage stored falls beneath any of the 300,000, 600,000 or 900,000 tonnes thresholds, a Warehouse will still be required to deliver out all outstanding deliveries scheduled on or prior to the date the tonnage falls beneath such threshold.
- 4. In addition to the daily rates stipulated above and below, a DP Warehouse who satisfies the following conditions:
 - (a) the DP Warehouse has scheduled delivery out 1 commitments of 30,000 tonnes or more; and
 - (b) a minimum of 30,000 tonnes of those scheduled commitments are for one metal (being the first metal scheduled to be delivered out that day) (the "Daily Dominant Metal");

shall be required to deliver out in that Delivery Point a minimum of 500 tonnes per day of a metal other than the Daily Dominant Metal, provided that such deliveries are requested.

- 5. In addition to the daily delivery out rates referred to in this policy, the DP Warehouse is required to load-out minimum quantities of certain metals in any particular Delivery Point, so as to meet the following requirements:
 - (a) Tin: DP Warehouses delivering out the minimum rates stipulated elsewhere in this policy will be required to deliver out an additional daily total of 60 tonnes of tin, which may include the normal course scheduling of metal in

¹ For the purposes of this policy, the terms "delivery out" and "load-out" are used interchangeably.



the Queue (including the non-dominant metal load-out requirements, but not including any additional requirements under the LILO Rule).

- (b) Nickel: DP Warehouses delivering out the minimum rates stipulated elsewhere in this policy will be required to deliver out an additional daily total of 60 tonnes of nickel, which may include the normal course scheduling of metal in the Queue (including the non-dominant metal load-out requirements, but not including any additional requirements under the LILO Rule).
- (c) Metal warranted pursuant to the LME's specifications for the aluminium alloy contract and the North American Special Aluminium Alloy Contract ("NASAAC") (together "Aluminium Alloys"): DP Warehouses licensed to warrant Aluminium Alloys delivering out the minimum rates stipulated in this policy will be required to deliver out an additional daily total of 500 tonnes of Aluminium Alloys, which may include the normal course scheduling of metal in the Queue (including the non-dominant metal load-out requirements, but not including any additional requirements under the LILO Rule).

For the avoidance of doubt, the extra metal to be delivered out under this paragraph would only be required to be delivered out if the DP Warehouse had reached its minimum daily load-out rate without delivering out 60 tonnes of tin, 60 tonnes of nickel, and 500 tonnes of Aluminium Alloys, as part of these deliveries.

- 6. The daily delivery out rate does not include deliveries out for cobalt and RMC. Any deliveries out for either of these metals must be in addition to the rates stipulated in the above table.
- 7. The daily delivery out rate does not include deliveries out for steel billet. For each Delivery Point in which it is licensed to store steel billet, a DP Warehouse must deliver out in accordance with the minimum requirements stipulated in the tables below, provided demand is present.

DP Warehouse's authorised space in sq.	Minimum daily delivery tonnage
metres (steel storage facilities only)	for steel
2,500	800 tonnes
5,000	1,200 tonnes
7,500	1,500 tonnes

The above table applies to all DP Warehouses who are storing up to 300,000 tonnes of steel. For DP Warehouses who are storing 300,000 tonnes and above, the following table is applicable:



DP Warehouse's tonnage stored (steel	Minimum daily delivery tonnage
only)	for steel
300,000 tonnes to 599,999 tonnes	2,000 tonnes
600,000 tonnes to 899,999 tonnes	2,500 tonnes
900,000 tonnes and over	3,000 tonnes

8. In addition to the daily rates stipulated above, an "Affected DP Warehouse" (as defined at paragraph 3 of Section E below) shall be required to comply with the Linked Load-In and Load-Out Requirements set out in Section E below. However, the LME, acting reasonably in its sole discretion, shall have the power to disapply such requirements on a per-case basis. The LME will agree Queue scheduling with Affected DP Warehouses and how this will be monitored. In the event that a DP Warehouse becomes subject to increased minimum load-out requirements under this policy, it is the responsibility of the Warehouse to reschedule the whole Queue for the given Delivery Point, by offering the additional slots to metal owners depending on their order in the Queue (starting with the first metal owners in the Queue).

9. To qualify as a load-out:

- (a) The load-out must be accompanied by a bill of lading or other document or correspondence (issued by a carrier to the Warehouse or issued by the Warehouse to a carrier), no matter the form of transportation, listing goods for transport and the intended recipient; and
- (b) The recipient on the document at (a) above cannot be an entity which is an Authorised Warehouse or an off-Warrant warehouse located in the same Delivery Point where the metal is loaded out, if such Authorised Warehouse or off-Warrant warehouse is owned or operated by the Warehouse loading out the metal, or is a company in the Warehouse's Group. In the event that the document at (a) is issued by the Warehouse, then the Warehouse shall be responsible for the veracity of the information contained therein. In the event that the metal owner wishes to keep confidential from the Warehouse the destination of the metal, the Warehouse must contact the LME to discuss bespoke arrangements to demonstrate the load-out of the metal.

Any movement of metal which is not accompanied by a bill of lading or equivalent meeting the requirements of paragraphs (a) and (b) above shall not be counted towards a Warehouse's load-out requirements. Material placed into containers within an Authorised Warehouse may be counted as a load-out by the Warehouse provided that the container is sealed on that day. For the avoidance of doubt, a high volume of sealed containers should have no impact on the load-out requirements.

10. Once all formalities permitting delivery, including payment of applicable delivery out charges (including without limitation Free on Truck charges ("FOT") or equivalent for other modes of transport), have been completed, the Warehouse shall endeavour to process requests for deliveries out on the basis of 48 hours'



notice and strictly in the order in which they are received, unless the Warrant holders seeking cancellation agree otherwise. The FOT charges imposed by a Warehouse shall be the rates published at the date of cancellation not at the date of delivery.

- 11. Warehouses shall publish (on their website or other appropriate method) a clear process for scheduling and handling delivery slots (including required documents, timing of operations, etc.).
- 12. Warehouses are required to supply the LME with their current rent and FOT charges. In addition, Warehouses are also required to publish on their website in an easily accessible manner the current level of charges in respect of (i) Free on Rail, (ii) Free Alongside, (iii) Free in Container Yard (which, for the avoidance of doubt, shall relate to the cost of packing a container at a facility nominated by the Warehouse, with the cost of transportation of such container to and from the facility being for the account of the metal owner), (iv) metal re-warranting, and (v) slot rescheduling at the request of the metal owner. Certain of these charges may not be applicable given the transportation modes available at the Delivery Point, in which case this should be noted on the website. Warehouses may not charge fees for these services that exceed the levels published on their website, and may not impose any other compulsory charges on metal owners in respect of these logistical activities, other than those so published.
- 13. With the exception of inland Delivery Points, there should be no charges above the FOT for transferring metal to the Warehouse's approved and nominated loading berths (as advised to the LME in schedule B of the warehouse application); the unloading of such metal from the truck being for the receiver's account.
- 14. There should be no charges above the FOT for transferring metal to the nearest railhead in Delivery Points situated in the countries referred to in section B3 above (as advised to the LME in schedule B of the warehouse application); the loading of such metal onto a railcar being for the receiver's account.
- 15. Warehouses are reminded that, in general, the daily delivery tonnages set out in this policy are minimum delivery out requirements, not minimum scheduling requirements. However, metal owners are also reminded of their obligations in respect of observing reasonable logistical arrangements in respect of metal collection. In particular, in the event that no metal owner wishes to avail themselves of a delivery slot offered on a reasonable basis and at a reasonable time of day, a Warehouse will be permitted to count the tonnage which would have been delivered in that slot towards delivery out if it can verify that the empty slot had originally been offered to all metal owners in the Queue.

D) The Premium Contract Rule

1. DP Warehouses without Queues in a particular Delivery Point are eligible for the delivery of Warrants in that Delivery Point against contracts designated by the LME as "Premium Contracts" ("Premium Warrants"). The specification of



Premium Contracts is made by the LME pursuant to the requirements in the "Premium Contract Regulations" set out in the LME Rulebook. Warrants not so endorsed will be referred to as "Standard Warrants". The ability to endorse Premium Warrants applies at the level of the DP Warehouse. Accordingly, if a Warehouse has a Queue in one Delivery Point, this will not prevent the Warehouse endorsing Premium Warrants at its Authorised Warehouses in a different Delivery Point, provided that the second facility does not have a Queue.

- 2. In order for a Warehouse to endorse a Warrant as a Premium Warrant, the following conditions must be satisfied:
 - (a) the DP Warehouse must be located in one of the premium regions, as set out in the Premium Contract Regulations;
 - (b) the DP Warehouse must have opted-in to the Premium Warrant regime, by completing the appropriate agreement with the LME - the LME will publish a list of all DP Warehouses which have opted-in to the premium warrant regime; and
 - (c) at the time of endorsement of the Premium Warrant, the DP Warehouse must not have a Queue in respect of any LME metal.
- 3. A Premium Warrant can only be endorsed if the metal owner so requests, and the Warehouse agrees to do so. There are two routes by which a Premium Warrant may be created:
 - (a) In connection with fresh metal loaded-in to the DP Warehouse, a Warrant is issued in respect of that metal, and is immediately endorsed as a Premium Warrant. Warehouses may set a different rent and FOT rate in respect of Premium Warrants such rates will be reported to the LME by Warehouses and published annually in the same way as for Standard Warrant rent and FOT rates. As with current metal load-in, no Warehouse is obligated to accept metal for warranting, and metal owners must ensure that Premium Warrant creation capacity is available at their intended DP Warehouse in particular, it is expected that Warehouses will not wish to warrant more premium metal than they could logistically load-out pursuant to the greater requirements attaching to such metal. However, the LME would expect Warehouses which have opted-in to the Premium Warrant regime not to unreasonably refuse the load-in of metal and the creation of Premium Warrants: or
 - (b) An existing Standard Warrant is converted to a Premium Warrant. Warehouses opting-in to the premium warrant regime may indicate whether or not they are prepared to undertake such conversion, and to identify if they wish to charge a conversion fee (the amount of which will be reported to the LME and published annually by the Warehouse) which will be levied in this event. Warehouses may also set a maximum quota (expressed as a tonnage) in respect of the maximum amount of Standard Warrants which they will be prepared to convert to Premium Warrants. This may be



important for Warehouses with large stocks of Standard Warrants, and which would not be able to take on the additional requirements were the entire stock to be converted to Premium Warrants. However, within their stated quota, Warehouses will be expected to convert Standard Warrants into Premium Warrants on a non-discriminatory and first-come-first-served basis. Once a Standard Warrant has been converted into a Premium Warrant, then the Warehouse's published Premium Warrant rents and FOTs will apply

- 4. In the event that a Premium Warrant is cancelled and a Queue develops at the DP Warehouse in the Delivery Point, such that any metal owner who, having cancelled a Warrant; paid FOT, or equivalent, and rent; provided shipping instructions; and requested prompt load-out, is told that load-out cannot be completed within 48 hours; the Warehouse will have an immediate duty to inform the LME, which will, within one London business day, announce to the market that the Warehouse will cease to be able to endorse Premium Warrants in that Delivery Point three London business days following such announcement. Warehouses which have cleared their Queues in the relevant Delivery Point will be entitled to resume the issuance of Premium Warrants following the publication by the LME of the next monthly Queues report confirming that no Queues remain. The emergence of a Queue at a DP Warehouse does not change the status of Premium Warrants previously issued by that DP Warehouse such Warrants remain Premium Warrants.
- 5. However, and notwithstanding the three day adjustment period, metal owners should note that, given the above, the emergence of a Queue at a DP Warehouse may impact their ability to create Premium Warrants in that Delivery Point. Accordingly, those holding short positions in respect of LME Premium Contracts are urged to ensure that they have created the requisite Premium Warrants in good time prior to delivery.
- 6. Where a Queue arises, pursuant to the conditions set out in paragraph D4, the DP Warehouse will have an obligation to load-out metal relating to cancelled Premium Warrants in a separate Queue. The minimum daily load-out rate for such metal will be the higher of:
 - (a) 1,000 tonnes per day; and
 - (b) 3% of the total stock relating to Premium Warrants (live and cancelled) in the DP Warehouse.

For the avoidance of doubt, load-out obligations in respect of Premium Warrants are in addition to load-out obligations for Standard Warrants. In particular, the basis on which minimum load-out rates for Standard Warrants are calculated takes into account total stored tonnage in the DP Warehouse, related to both Standard Warrants and Premium Warrants.

7. Once it has opted into the Premium Contract Rule, a DP Warehouse may only opt-out if its stock of Premium Warrants is zero.



- 8. Premium Warrants may be converted back to Standard Warrants by agreement between the metal owner and the Warehouse. However, there shall be no obligation on Warehouses to facilitate such transfers.
- 9. Premium Warrants may be re-warranted by agreement between the metal owners and the Warehouse. However, there is no requirement on the Warehouse to re-warrant cancelled Premium Warrants as new Premium Warrants, and a Warehouse may reasonably offer to re-warrant a cancelled Premium Warrant as a Standard Warrant.

E) Linked Load-In and Load-Out Requirements

1. Principle

The general principle of this requirement is to link load-in and load-out for DP Warehouses with Queues of greater than 50 calendar days (the "Queue Threshold").

2. LILO Rule Definitions

In relation to a particular DP Warehouse, a Business Day ("Business Day") is any day on which that particular DP Warehouse is operating and subject to the current LME minimum load-out requirement.

The Preliminary Calculation Period ("Preliminary Calculation Period") shall be the period between 1 July 2013 and 31 January 2015, inclusive.

The First Calculation Period ("First Calculation Period") shall be the period between 1 February 2015 and 30 April 2015, inclusive.

Each subsequent Calculation Period ("Calculation Period") shall be the three months immediately following the preceding Calculation Period. By way of example, the Second Calculation Period ("Second Calculation Period") shall be the period between 1 May 2015 and 31 July 2015, inclusive (being the three months immediately following the First Calculation Period).

The Preliminary Discharge Period, (the "Preliminary Discharge Period") which will apply in relation to the Preliminary Calculation Period, will be the three month period between 1 March 2015 and 31 May 2015, inclusive.

For each subsequent Calculation Period, the related Discharge Period (i.e. the period during which the Incremental Load-Out Requirement calculated in accordance with paragraph 4 below must be met) shall be the three month period starting on the date one calendar month following the end of that Calculation Period (the "Discharge Period"). By way of example, the First Discharge Period shall be the period between 1 June 2015 and 31 August 2015, inclusive (being the three month period starting on the date one calendar month following the end of the First Calculation Period) (the "First Discharge Period").



In relation to a particular DP Warehouse on any given Business Day, the Normal daily Minimum Load-Out Rate is the amount of metal required to be loaded out according to the LME requirements set out in Section C of this Policy (the "Normal Daily Minimum Load-Out Rate") as follows:

- (a) If, on the Business Day in question, a DP Warehouse is required to make an additional load-out of non-dominant metal (pursuant to paragraph 4 of Section C above), such additional load-out will be counted towards the Normal Daily Minimum Load- Out Rate for the Business Day in question.
- (b) If, on the Business Day in question, a DP Warehouse is required to make an additional load-out of nickel, tin and/or Aluminium Alloys (pursuant to paragraph 5 of Section C above), such additional load-out will be counted towards the Normal Daily Minimum Load-Out Rate for the Business Day in question.
- (c) Load-out of cobalt and RMC (paragraph 6 of Section C above) and steel billet (paragraph 7 of Section C above) will not be counted towards the Normal Daily Minimum Load-Out Rate, given that these metals are treated separately for the purposes of DP Warehouse load-out rates.

Re-warranted Metal ("Re-warranted Metal") is metal in respect of which a Warrant has been cancelled, but has not been loaded out of the DP Warehouse (due to the presence of a Queue or other operational constraint), and in respect of which the metal owner has requested that the Warehouse issues a new Warrant (and hence reverses the original request to deliver out that metal).

The Decay Factor shall be the coefficient applied in the equation at Section E, paragraph 4(b)(i). Until 31 July 2015 (i.e. for use in the First and Second Calculation Periods), the value of the Decay Factor shall be 0.5. From 1 August 2015 (i.e. for use in the Third and subsequent Calculation Periods), the value of the Decay Factor shall be 1.0. For the avoidance of doubt, the current and future values of the Decay Factor remain subject to modification pursuant to Section E, paragraph 6.

3. Affected DP Warehouses

On any given Business Day, an Affected DP Warehouse is a DP Warehouse with a Queue of greater than the Queue Threshold (the "Affected DP Warehouse"). Queue lengths will continue to be measured and reported to the LME by DP Warehouses, with the LME continuing to exercise oversight in respect of such measurements. For the avoidance of doubt, to the extent that a DP Warehouse has scheduled deliveries pursuant to any Incremental Load-Out Requirement arising per this policy, then the Queue length may take into account such incremental scheduled deliveries.

4. Calculating the Incremental Load-Out Requirement



The Incremental Load-Out Requirement shall mean the additional amount of metal that must be discharged by a DP Warehouse during the course of the relevant Discharge Period, over and above the load-out required by the Normal Daily Minimum Load-Out Rate on each day of that Discharge Period (the "Incremental Load-Out Requirement"). The Incremental Load-Out Requirement is derived on the final day of the relevant Calculation Period, as set out more fully in this section E, paragraph 4.

(a) During the Preliminary Calculation Period, each DP Warehouse shall maintain the calculation of its Cumulative Incremental Load-Out Quantity which is the quantity set to zero at the beginning of the Preliminary Calculation Period and increased incrementally on each Business Day of the Preliminary Calculation Period by the process set out in this section E, paragraph 4(a) (the "Cumulative Incremental Load-Out Quantity").

During the Preliminary Calculation Period, on each Business Day, the following value will be added to the Cumulative Incremental Load-Out Quantity:

(i) the amount of new metal placed on-warrant in the DP Warehouse on the Business Day in question (which, for the avoidance of doubt, shall not include Re-warranted Metal, steel, RMC nor cobalt);

less,

(ii) the higher of (i) the Normal Daily Minimum Load-Out Rate, and (ii) the actual amount of metal loaded-out of the DP Warehouse on the Business Day in question – provided that, for the purposes of (ii), loadout in excess of the Normal Daily Minimum Load-Out Rate which is made to compensate for a shortfall in load-out on a previous or subsequent Business Day (due, inter alia, to scheduling variations within a single load-out request per paragraph 2 of Section C above) shall not count towards the actual amount of metal loaded-out of the DP Warehouse.

On the final Business Day of the Preliminary Calculation Period, a DP Warehouse shall establish whether it is an Affected DP Warehouse at the end of that Business Day. If (i) the DP Warehouse is not an Affected DP Warehouse, or (ii) the calculated Cumulative Incremental Load-Out Quantity is less than or equal to zero, then the Incremental Load-Out Requirement for the Preliminary Calculation Period shall be set to zero, and no additional load-out requirements will hence be incurred during the Preliminary Discharge Period. If (i) the DP Warehouse is an Affected DP Warehouse, and (ii) the calculated Cumulative Incremental Load-Out Quantity is greater than zero, then the Incremental Load-Out Requirement for the Preliminary Calculation Period shall be set to the Cumulative Incremental Load-Out Quantity in relation to the Preliminary Calculation Period, and must be satisfied by the DP Warehouse during the Preliminary Discharge Period as set out in paragraph 5 below.



(b) During the First Calculation Period, and each subsequent Calculation Period, a DP Warehouse shall measure its Cumulative Load-In and Cumulative Normal Minimum Load-Out. Cumulative Normal Minimum Load-Out shall mean the sum of metal across every Business Day of the relevant Calculation Period that a DP Warehouse is required to load-out pursuant to the Normal Daily Minimum Load Out Rate (the "Cumulative Normal Minimum Load-Out"). Cumulative Load-In shall mean the sum, increased incrementally each Business Day of the relevant Calculation Period, of metal that the DP Warehouse loads-in during the relevant Calculation Period (the "Cumulative Load-In"). Both quantities will be set to zero at the beginning of the Calculation Period.

For each Business Day during the Calculation Period, the Cumulative Load-In will be increased by the amount of new metal placed on-warrant in the DP Warehouse on the Business Day in question (which, for the avoidance of doubt, shall not include Re-warranted Metal, steel, RMC nor cobalt).

For each Business Day during the Calculation Period, the Cumulative Normal Minimum Load-Out will be increased by the Normal Daily Minimum Load-Out Rate for the Business Day in question.

At the end of the Calculation Period, and if the DP Warehouse has been an Affected DP Warehouse on any Business Day during that Calculation Period, then the Incremental Load-Out Requirement will be calculated as:

- (i) the Decay Factor multiplied by the Cumulative Load-In, up to and including the Cumulative Normal Minimum Load-Out;
 - plus,
- (ii) the Cumulative Load-In above the Cumulative Normal Minimum Load-Out.

For the avoidance of doubt, if the DP Warehouse has not been an Affected DP Warehouse on any day during that Calculation Period, then the Incremental Load-Out Requirement will be zero in respect of that Calculation Period.

5. Discharging the Incremental Load-Out Requirement

At the end of each Calculation Period, the then current Incremental Load-Out Requirement must be satisfied by the DP Warehouse during the Discharge Period associated with the Calculation Period having just concluded, provided load-out demand is present.

During the associated Discharge Period, the DP Warehouse will be required to load-out the Incremental Load-Out Requirement, in addition to its load-out obligations in accordance with Section C above. For the avoidance of doubt, the



DP Warehouse will not be held to any particular daily incremental load-out rate – however, in aggregate over the course of the Discharge Period, the full Incremental Load-Out Requirement must be satisfied.

The DP Warehouse must offer additional slots created to meet the Incremental Load-Out Requirement to metal owners strictly in order of their position in the Queue.

6. Adjusting the Decay Factor and/or Queue Threshold

The LME, acting reasonably, reserves the right to adjust the Decay Factor and/or the Queue Threshold either on a market-wide basis or on a per-DP Warehouse basis in order to enhance the orderly functioning of the market or to prevent abusive behaviour or for any other reason.

7. A worked example of the calculation

This worked example is provided for illustrative purposes only and should not be relied upon for any reason.

- (a) Consider a notional DP Warehouse with stocks of 2,000,000 tonnes of a single metal. Pursuant to the LME Policy Regarding the Approval of Warehouses, revised 1 February 2015, the Normal Daily Minimum Load-Out Rate is 3,000 tonnes per Business Day. Consider further that the DP Warehouse chooses to loadout precisely its Normal Daily Minimum Load-Out Rate (3,000 tonnes) on each Business Day.
- (b) Consider that, of the DP Warehouse's stocks, 1,000,000 tonnes are represented by cancelled metal. Assuming that owners of all of the cancelled metal have completed the necessary formalities, then the DP Warehouse's load-out Queue will hold 1,000,000 tonnes of metal. At a load-out rate of 3,000 tonnes per Business Day, the Queue length will be:
 - (i) 1,000,000 tonnes / 3,000 tonnes per Business Day
 - (ii) = 333.3 Business Days
 - (iii) = 465.3 calendar days (assuming all weekdays are Business Days)

For the avoidance of doubt, in practice, the Queue length will be determined by the Warehouse concerned on the basis of schedules provided to metal owners.

(c) Consider that the DP Warehouse places on-warrant a constant amount of 3,100 tonnes per Business Day. Consider also that, on each Business Day, Warrant holders cancel an amount of 3,000 tonnes of metal (thus balancing the delivery out of 3,000 tonnes per Business Day, resulting in a constant Queue length until such time as the Incremental Load-Out Requirement comes into effect). There is assumed to be no re-warranting of metal in this scenario.



(d) At the start of the Preliminary Calculation Period (1 July 2013), the Cumulative Incremental Load-Out Quantity is zero.

On each day during the Preliminary Calculation Period, the following value will be added to the Cumulative Incremental Load-Out Quantity:

(i) the amount of new metal placed on-warrant in the DP Warehouse on the Business Day in question (which, for the avoidance of doubt, shall not include Re-warranted Metal) (3,100 tonnes);

less,

- (ii) the higher of (i) the Normal Daily Minimum Load-Out Rate (3,000 tonnes), and (ii) the actual amount of metal loaded-out of the DP Warehouse on the Business Day in question (also 3,000 tonnes).
 - = 3,100 tonnes 3,000 tonnes = 100 tonnes
- (e) At the end of the Preliminary Calculation Period (31 January 2015), and assuming that each weekday during the Preliminary Calculation Period is a Business Day for the DP Warehouse (resulting in a total of 415 Business Days during the Preliminary Calculation Period), then the Cumulative Incremental Load-Out Quantity will total 41,500 tonnes.

Given that, per (c) above, the Queue will have retained a constant length, the Queue length at the end of the Preliminary Calculation Period will remain at 465.3 calendar days. On this basis, the Queue length is greater than 50 days, and the DP Warehouse is hence an Affected DP Warehouse at the end of the Preliminary Calculation Period.

Given that, on the final Business Day of the Preliminary Calculation Period, (i) the DP Warehouse is an Affected DP Warehouse, and (ii) the calculated Cumulative Incremental Load-Out Quantity is greater than zero, then the Incremental Load-Out Requirement will be set to the Cumulative Incremental Load-Out Quantity (41,500 tonnes), and must be satisfied by the DP Warehouse during the Preliminary Discharge Period.

- (f) During the Preliminary Discharge Period (1 March 2015 to 31 May 2015), the DP Warehouse will be required to load-out the Incremental Load-Out Requirement relating to the Preliminary Calculation Period (41,500 tonnes in total over the course of the Preliminary Discharge Period), in addition to its Normal Daily Minimum Load-Out Rate of 3,000 tonnes per Business Day.
- (g) At the start of the First Calculation Period (1 February 2015), the Cumulative Load-In and Cumulative Normal Minimum Load-Out are set to zero.

On each day during the First Calculation Period, the Cumulative Load-In will be increased by the amount of new metal placed on-warrant in the DP



Warehouse on the Business Day in question (which, for the avoidance of doubt, shall not include Re-warranted Metal) – in this case 3,100 tonnes.

On each day during the First Calculation Period, the Cumulative Normal Minimum Load-Out will be increased by the Normal Daily Minimum Load-Out Rate for the Business Day in question – in this case 3,000 tonnes.

(h) At the end of the First Calculation Period (30 April 2015), and assuming that each weekday during the First Calculation Period is a Business Day for the DP Warehouse (resulting in a total of 64 Business Days during the First Calculation Period), then the Cumulative Load-In will total 198,400 tonnes, and the Cumulative Normal Minimum Load-Out will total 192,000 tonnes.

On the basis that the DP Warehouse has been an Affected DP Warehouse for at least one Business Day during the First Calculation Period, then the Incremental Load-Out Requirement will be calculated as follows:

(i) Decay Factor multiplied by the Cumulative Load-In, up to and including the Cumulative Normal Minimum Load-Out;

plus,

(ii) the Cumulative Load-In above the Cumulative Normal Minimum Load-Out.

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= 0.5 \times 192,000 + (198,400 - 192,000) = 96,000 + 6,400
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= 102,400 tonnes

- (i) During the First Discharge Period (1 June 2015 to 31 August 2015), the DP Warehouse will be required to load-out the Incremental Load-Out Requirement relating to the First Calculation Period (102,400 tonnes in total over the course of the First Discharge Period), in addition to its Normal Daily Minimum Load-Out Rate of 3,000 tonnes per Business Day, provided loadout demand is present.
- (j) This process continues through the Second Calculation Period (and associated Second Discharge Period), Third Calculation Period (and associated Third Discharge Period) and so on, incorporating the increased value of the Decay Factor in the Third and subsequent Calculation Periods, until such time as the DP Warehouse ceases to be an Affected DP Warehouse.



F) Continued compliance with the LME policy for Warehouses

- A Warehouse must at all times comply with the Warehouse Requirements. In the
 event that a Warehouse does not appear to meet the Warehouse Requirements,
 there will be an initial review by the LME and consultation with the Warehouse
 concerned.
- 2. If the Warehouse can demonstrate that it will upgrade facilities or work practices to meet the LME's new standards, the LME will consider the appropriate amount of time to allow for such a process. Warehouses could, for example, be given, a period of time to upgrade their facilities or relocate to a more suitable building within the Delivery Point, but this would be determined on a case by case basis, according to the circumstances.
- 3. If after consultation with the Warehouse, the Warehouse is unwilling or unable to upgrade its facilities or work practices to meet the LME's standards, the LME retains the right to restrict the capacity of that Warehouse (or DP Warehouse as appropriate) or to delist it. In particular, if a Warehouse fails to comply with the Linked Load-In and Load-Out Requirements per Section E, then the Board may (among other actions) restrict the ability of that Warehouse to create Warrants in that Delivery Point until load-in and load-out are brought into alignment pursuant to the requirements.
- 4. Prior to implementation, the LME would give the necessary notice of any action to be taken to the Warehouse and allow for formal representations to be made.

G) Review of LME policy for Warehouses

This policy will be reviewed at least on a biennial basis.

H) General Definitions

"Authorised Warehouse" shall mean a warehouse storage facility operated by a Warehouse in a particular Delivery Point, which has been approved by the LME for the purposes of the Warehouse Agreement.

"Delivery Point" shall mean a specific geographic area within which warehouses are listed and approved by the LME for the issue of Warrants.

"DP Warehouse" shall mean all the Authorised Warehouses of a particular Warehouse within a Delivery Point.

"EXCOM" shall mean the Executive Committee of the LME.

"Group" shall mean, in relation to a company, any subsidiary or any holding company from time to time of that company, and any subsidiary from time to time of



a holding company of that company. The terms "holding company" and "subsidiary" have the meanings given to them in section 1159 of the Companies Act 2006.

"LILO Rule" shall mean the requirements set out in Section E of this policy.

"LME" or the "Exchange" shall mean the London Metal Exchange.

"LME Special Committee" shall mean the LME Committee to which the LME Directors have delegated the emergency powers under Regulation 15 of Part 3 of the LME Rulebook, as permitted by the Articles of Association of the LME.

"LME Contract" shall mean a contract as defined by the LME Rulebook.

"Load-out" shall mean a delivery of metal out of the premises of an Authorised Warehouse which meets the requirements of this policy (including for the avoidance of doubt paragraph C9).

"Location" shall mean a geographic area capable of being a Delivery Point.

"Queue" means circumstances where load-out requests cannot be serviced immediately by a Warehouse, measured by the number of calendar days a metal owner cancelling a Warrant today must wait for a scheduled delivery slot.

"RMC" shall mean roasted molybdenum concentrate.

"Warehouse" shall mean a warehouse company which has been approved by the LME and which has agreed to be bound by the terms and conditions applicable to all LME approved warehouses, as amended by the LME from time to time.

"Warehouse Agreement" shall mean the terms and conditions entered into between the Warehouse and the LME, as applicable to all LME listed Warehouses.

"Warrant" shall mean a warehouse warrant for the storage of metal, issued by a Warehouse and in a form approved by the LME.



LME POLICY ON THE APPROVAL AND OPERATION OF WAREHOUSES, REVISED [1 JUNE AUGUST 2015]

A) Warehouses

- 1. Applicants to be a Warehouse will be considered for approval and listing in an existing or new Delivery Point subject to completion of a Warehouse Agreement application form supported by evidence of insurance, capital adequacy and other documents as detailed by the LME from time to time. The LME will inspect premises and operations offered for warehousing to the LME prior to any listing to ensure they suit the logistical nature of the Location as required by the LME. The LME will state its needs in this respect when sending the applicant the application form. The LME has discretion to accept or decline an application for approval to be a Warehouse or attach specific conditions to approval to be a Warehouse.
- 2. A Warehouse shall have staff with sufficient experience in metal storage, logistics and systems to ensure that the Warehouse is able to comply with all applicable requirements on an ongoing basis. The LME may, in its reasonable discretion, reject an application from an applicant which is unable to demonstrate compliance with this requirement.
- 3. Applicants for approval shall be required to demonstrate that they do not:
 - (a) control the operation of any infrastructure or the provision of any service in the Location / Delivery Point that would be critical to any other Warehouse, or any company wishing to become a Warehouse, in the Location / Delivery Point concerned (including, without limitation, terminal operators which may operate all or most of the berths within a port; a logistics company providing all or most of the logistics services in the port (haulage and warehouse operations); or a company that owns all or most of the real estate/warehouses of the Location); or
 - (b) otherwise exercise control in the Location / Delivery Point;
 - such that the LME would have a reasonable concern that the applicant's operation of a Warehouse could be detrimental to competition.
- 4. A Warehouse must comply at all times without limitation with: this policy and any other notices or policies issued by the LME, from time to time which apply to Warehouses; and the Warehouse Agreement (together the "Warehouse Requirements").



B) Transportation

Transport links

- 1. All Authorised Warehouses must have adequate transport links and be situated in close proximity to major highways.
- 2. With the exception of inland Delivery Points, all Authorised Warehouses must have adequate transport links and be situated in close proximity to water loading facilities.
- 3. All Authorised Warehouses located in Germany, Belgium, Netherlands, Sweden and the US must have adequate transport links and be situated in close proximity to railheads.
- 4. All Authorised Warehouses in inland Delivery Points must be directly connected to a rail network.

The LME, respecting such confidentiality as it deems necessary and appropriate, will undertake its own enquiries, as it sees fit, from its members/trade entities etc. to evaluate any applications prior to submission to EXCOM for consideration.

C) Common standards of working practices and facilities for Warehouses

- 1. For each 2500 sq. metres of space (not including open storage compounds for steel) there must be access by means of an operational door for vehicle loading/unloading, with a minimum of 2 doors per Authorised Warehouse.
- 2. The minimum daily delivery tonnage must be in accordance with the tables below. Where the delivery requests exceed the minimum daily delivery tonnage for the capacity on the table below, the LME will regard the standard as applying over the number of days necessary to complete the deliveries, as per the table (e.g. if the requests for the delivery of 2000 tonnes apply to a DP Warehouse's capacity of 2500 sq. metres, the standard would be to deliver in 3 days with no reference to the performance on any one of those days). The LME would, however, expect the DP Warehouse to act reasonably when allocating the tonnage delivered out in each of those days.

DP Warehouse's authorised space in sq. metres (excluding steel storage facilities)	for all metals (excluding cobalt,
	RMC and steel)
2,500	800 tonnes
5,000	1,200 tonnes
7,500	1,500 tonnes



The above table applies to all DP Warehouses who are storing up to 300,000 tonnes of metal. For DP Warehouses who are storing 300,000 tonnes and above, the following table is applicable.

	Warehouse's uding steel)	tonnage	stored	Minimum daily delivery tonnage for all metals (excluding cobalt, RMC and steel)
300,000 tonnes to 599,999 tonnes			2,000 tonnes	
600,000 tonnes to 899,999 tonnes			2,500 tonnes	
900,000 tonnes and over			3,000 tonnes	

NB: The daily delivery tonnage is for deliveries out only and does not include deliveries in.

- 3. Where a DP Warehouse's tonnage stored increases beyond any of the 300,000, 600,000 or 900,000 tonnes thresholds, the applicable revised minimum daily delivery tonnage shall have effect from the date which is 30 days from the date the threshold is passed. This will allow the Warehouse to implement the necessary scheduling changes in order to meet the increased minimum daily delivery tonnage. However, where a DP Warehouse's tonnage stored falls beneath any of the 300,000, 600,000 or 900,000 tonnes thresholds, a Warehouse will still be required to deliver out all outstanding deliveries scheduled on or prior to the date the tonnage falls beneath such threshold.
- 4. In addition to the daily rates stipulated above and below, a DP Warehouse who satisfies the following conditions:
 - (a) the DP Warehouse has scheduled delivery out 1 commitments of 30,000 tonnes or more; and
 - (b) a minimum of 30,000 tonnes of those scheduled commitments are for one metal (being the first metal scheduled to be delivered out that day) (the "Daily Dominant Metal");

shall be required to deliver out in that Delivery Point a minimum of 500 tonnes per day of a metal other than the Daily Dominant Metal, provided that such deliveries are requested.

- 4.5. In addition to the daily delivery out rates referred to in this policy, the DP Warehouse is required to load-out minimum quantities of certain metals in any particular Delivery Point, so as to meet the following requirements:
 - (a) Tin: DP Warehouses delivering out the minimum rates stipulated elsewhere in this policy will be required to deliver out an additional daily total of 60 tonnes of tin, which may include the normal course scheduling of metal in

¹ For the purposes of this policy, the terms "delivery out" and "load-out" are used interchangeably.



the Queue (including the non-dominant metal load-out requirements, but not including any additional requirements under the LILO Rule).

- (b) Nickel: DP Warehouses delivering out the minimum rates stipulated elsewhere in this policy will be required to deliver out an additional daily total of 60 tonnes of nickel, which may include the normal course scheduling of metal in the Queue (including the non-dominant metal load-out requirements, but not including any additional requirements under the LILO Rule).
- (c) Metal warranted pursuant to the LME's specifications for the aluminium alloy contract and the North American Special Aluminium Alloy Contract ("NASAAC") (together "Aluminium Alloys"): DP Warehouses licensed to warrant Aluminium Alloys delivering out the minimum rates stipulated in this policy will be required to deliver out an additional daily total of 500 tonnes of Aluminium Alloys, which may include the normal course scheduling of metal in the Queue (including the non-dominant metal load-out requirements, but not including any additional requirements under the LILO Rule).

For the avoidance of doubt, the extra metal to be delivered out under this paragraph would only be required to be delivered out if the DP Warehouse had reached its minimum daily load-out rate without delivering out 60 tonnes of tin, 60 tonnes of nickel, and 500 tonnes of Aluminium Alloys, as part of these deliveries.

- 6. The daily delivery out rate does not include deliveries out for cobalt and RMC. Any deliveries out for either of these metals must be in addition to the rates stipulated in the above table.
- 7. The daily delivery out rate does not include deliveries out for steel billet. For each Delivery Point in which it is licensed to store steel billet, a DP Warehouse must deliver out in accordance with the minimum requirements stipulated in the tables below, provided demand is present.

DP Warehouse's authorised space in sq.	Minimum daily delivery tonnage
metres (steel storage facilities only)	for steel
2,500	800 tonnes
5,000	1,200 tonnes
7,500	1,500 tonnes

The above table applies to all DP Warehouses who are storing up to 300,000 tonnes of steel. For DP Warehouses who are storing 300,000 tonnes and above, the following table is applicable:



DP Warehouse's tonnage stored (steel	Minimum daily delivery tonnage
only)	for steel
300,000 tonnes to 599,999 tonnes	2,000 tonnes
600,000 tonnes to 899,999 tonnes	2,500 tonnes
900,000 tonnes and over	3,000 tonnes

8. In addition to the daily rates stipulated above, an "Affected DP Warehouse" (as defined at paragraph 3 of Section E below) shall be required to comply with the Linked Load-In and Load-Out Requirements set out in Section E below. However, the LME, acting reasonably in its sole discretion, shall have the power to disapply such requirements on a per-case basis. The LME will agree Queue scheduling with Affected DP Warehouses and how this will be monitored. In the event that a DP Warehouse becomes subject to increased minimum load-out requirements under this policy, it is the responsibility of the Warehouse to reschedule the whole Queue for the given Delivery Point, by offering the additional slots to metal owners depending on their order in the Queue (starting with the first metal owners in the Queue).

9. To qualify as a load-out:

- (a) The load-out must be accompanied by a bill of lading or other document or correspondence (issued by a carrier to the Warehouse or issued by the Warehouse to a carrier), no matter the form of transportation, listing goods for transport and the intended recipient; and
- (b) The recipient on the document at (a) above cannot be an entity which is an Authorised Warehouse or an off-Warrant warehouse located in the same Delivery Point where the metal is loaded out, if such Authorised Warehouse or off-Warrant warehouse is owned or operated by the Warehouse loading out the metal, or is a company in the Warehouse's Group. In the event that the document at (a) is issued by the Warehouse, then the Warehouse shall be responsible for the veracity of the information contained therein. In the event that the metal owner wishes to keep confidential from the Warehouse the destination of the metal, the Warehouse must contact the LME to discuss bespoke arrangements to demonstrate the load-out of the metal.

Any movement of metal which is not accompanied by a bill of lading or equivalent meeting the requirements of paragraphs (a) and (b) above shall not be counted towards a Warehouse's load-out requirements. Material placed into containers within an Authorised Warehouse may be counted as a load-out by the Warehouse provided that the container is sealed on that day. For the avoidance of doubt, a high volume of sealed containers should have no impact on the load-out requirements.

10. Once all formalities permitting delivery, including payment of applicable delivery out charges (including without limitation Free on Truck charges ("FOT") or equivalent for other modes of transport), have been completed, the Warehouse shall endeavour to process requests for deliveries out on the basis of 48 hours'



notice and strictly in the order in which they are received, unless the Warrant holders seeking cancellation agree otherwise. The FOT charges imposed by a Warehouse shall be the rates published at the date of cancellation not at the date of delivery.

- 11. Warehouses shall publish (on their website or other appropriate method) a clear process for scheduling and handling delivery slots (including required documents, timing of operations, etc.).
- 12. Warehouses are required to supply the LME with their current rent and FOT charges. In addition, Warehouses are also required to publish on their website in an easily accessible manner the current level of charges in respect of (i) Free on Rail, (ii) Free Alongside, (iii) Free in Container Yard (which, for the avoidance of doubt, shall relate to the cost of packing a container at a facility nominated by the Warehouse, with the cost of transportation of such container to and from the facility being for the account of the metal owner), (iv) metal re-warranting, and (v) slot rescheduling at the request of the metal owner. Certain of these charges may not be applicable given the transportation modes available at the Delivery Point, in which case this should be noted on the website. Warehouses may not charge fees for these services that exceed the levels published on their website, and may not impose any other compulsory charges on metal owners in respect of these logistical activities, other than those so published.
- 13. With the exception of inland Delivery Points, there should be no charges above the FOT for transferring metal to the Warehouse's approved and nominated loading berths (as advised to the LME in schedule B of the warehouse application); the unloading of such metal from the truck being for the receiver's account.
- 14. There should be no charges above the FOT for transferring metal to the nearest railhead in Delivery Points situated in the countries referred to in section B3 above (as advised to the LME in schedule B of the warehouse application); the loading of such metal onto a railcar being for the receiver's account.
- 15. Warehouses are reminded that, in general, the daily delivery tonnages set out in this policy are minimum delivery out requirements, not minimum scheduling requirements. However, metal owners are also reminded of their obligations in respect of observing reasonable logistical arrangements in respect of metal collection. In particular, in the event that no metal owner wishes to avail themselves of a delivery slot offered on a reasonable basis and at a reasonable time of day, a Warehouse will be permitted to count the tonnage which would have been delivered in that slot towards delivery out if it can verify that the empty slot had originally been offered to all metal owners in the Queue.

D) The Premium Contract Rule

1. DP Warehouses without Queues in a particular Delivery Point are eligible for the delivery of Warrants in that Delivery Point against contracts designated by the LME as "Premium Contracts" ("Premium Warrants"). The specification of



Premium Contracts is made by the LME pursuant to the requirements in the "Premium Contract Regulations" set out in the LME Rulebook. Warrants not so endorsed will be referred to as "Standard Warrants". The ability to endorse Premium Warrants applies at the level of the DP Warehouse. Accordingly, if a Warehouse has a Queue in one Delivery Point, this will not prevent the Warehouse endorsing Premium Warrants at its Authorised Warehouses in a different Delivery Point, provided that the second facility does not have a Queue.

- 2. In order for a Warehouse to endorse a Warrant as a Premium Warrant, the following conditions must be satisfied:
 - (a) the DP Warehouse must be located in one of the premium regions, as set out in the Premium Contract Regulations;
 - (b) the DP Warehouse must have opted-in to the Premium Warrant regime, by completing the appropriate agreement with the LME - the LME will publish a list of all DP Warehouses which have opted-in to the premium warrant regime; and
 - (c) at the time of endorsement of the Premium Warrant, the DP Warehouse must not have a Queue in respect of any LME metal.
- 3. A Premium Warrant can only be endorsed if the metal owner so requests, and the Warehouse agrees to do so. There are two routes by which a Premium Warrant may be created:
 - (a) In connection with fresh metal loaded-in to the DP Warehouse, a Warrant is issued in respect of that metal, and is immediately endorsed as a Premium Warrant. Warehouses may set a different rent and FOT rate in respect of Premium Warrants such rates will be reported to the LME by Warehouses and published annually in the same way as for Standard Warrant rent and FOT rates. As with current metal load-in, no Warehouse is obligated to accept metal for warranting, and metal owners must ensure that Premium Warrant creation capacity is available at their intended DP Warehouse in particular, it is expected that Warehouses will not wish to warrant more premium metal than they could logistically load-out pursuant to the greater requirements attaching to such metal. However, the LME would expect Warehouses which have opted-in to the Premium Warrant regime not to unreasonably refuse the load-in of metal and the creation of Premium Warrants: or
 - (b) An existing Standard Warrant is converted to a Premium Warrant. Warehouses opting-in to the premium warrant regime may indicate whether or not they are prepared to undertake such conversion, and to identify if they wish to charge a conversion fee (the amount of which will be reported to the LME and published annually by the Warehouse) which will be levied in this event. Warehouses may also set a maximum quota (expressed as a tonnage) in respect of the maximum amount of Standard Warrants which they will be prepared to convert to Premium Warrants. This may be



important for Warehouses with large stocks of Standard Warrants, and which would not be able to take on the additional requirements were the entire stock to be converted to Premium Warrants. However, within their stated quota, Warehouses will be expected to convert Standard Warrants into Premium Warrants on a non-discriminatory and first-come-first-served basis. Once a Standard Warrant has been converted into a Premium Warrant, then the Warehouse's published Premium Warrant rents and FOTs will apply

- 4. In the event that a Premium Warrant is cancelled and a Queue develops at the DP Warehouse in the Delivery Point, such that any metal owner who, having cancelled a Warrant; paid FOT, or equivalent, and rent; provided shipping instructions; and requested prompt load-out, is told that load-out cannot be completed within 48 hours; the Warehouse will have an immediate duty to inform the LME, which will, within one London business day, announce to the market that the Warehouse will cease to be able to endorse Premium Warrants in that Delivery Point three London business days following such announcement. Warehouses which have cleared their Queues in the relevant Delivery Point will be entitled to resume the issuance of Premium Warrants following the publication by the LME of the next monthly Queues report confirming that no Queues remain. The emergence of a Queue at a DP Warehouse does not change the status of Premium Warrants previously issued by that DP Warehouse such Warrants remain Premium Warrants.
- 5. However, and notwithstanding the three day adjustment period, metal owners should note that, given the above, the emergence of a Queue at a DP Warehouse may impact their ability to create Premium Warrants in that Delivery Point. Accordingly, those holding short positions in respect of LME Premium Contracts are urged to ensure that they have created the requisite Premium Warrants in good time prior to delivery.
- 6. Where a Queue arises, pursuant to the conditions set out in paragraph D4, the DP Warehouse will have an obligation to load-out metal relating to cancelled Premium Warrants in a separate Queue. The minimum daily load-out rate for such metal will be the higher of:
 - (a) 1,000 tonnes per day; and
 - (b) 3% of the total stock relating to Premium Warrants (live and cancelled) in the DP Warehouse.

For the avoidance of doubt, load-out obligations in respect of Premium Warrants are in addition to load-out obligations for Standard Warrants. In particular, the basis on which minimum load-out rates for Standard Warrants are calculated takes into account total stored tonnage in the DP Warehouse, related to both Standard Warrants and Premium Warrants.

7. Once it has opted into the Premium Contract Rule, a DP Warehouse may only opt-out if its stock of Premium Warrants is zero.



- 8. Premium Warrants may be converted back to Standard Warrants by agreement between the metal owner and the Warehouse. However, there shall be no obligation on Warehouses to facilitate such transfers.
- 9. Premium Warrants may be re-warranted by agreement between the metal owners and the Warehouse. However, there is no requirement on the Warehouse to re-warrant cancelled Premium Warrants as new Premium Warrants, and a Warehouse may reasonably offer to re-warrant a cancelled Premium Warrant as a Standard Warrant.

E) Linked Load-In and Load-Out Requirements

1. Principle

The general principle of this requirement is to link load-in and load-out for DP Warehouses with Queues of greater than 50 calendar days (the "Queue Threshold").

2. LILO Rule Definitions

In relation to a particular DP Warehouse, a Business Day ("Business Day") is any day on which that particular DP Warehouse is operating and subject to the current LME minimum load-out requirement.

The Preliminary Calculation Period ("Preliminary Calculation Period") shall be the period between 1 July 2013 and 31 January 2015, inclusive.

The First Calculation Period ("First Calculation Period") shall be the period between 1 February 2015 and 30 April 2015, inclusive.

Each subsequent Calculation Period ("Calculation Period") shall be the three months immediately following the preceding Calculation Period. By way of example, the Second Calculation Period ("Second Calculation Period") shall be the period between 1 May 2015 and 31 July 2015, inclusive (being the three months immediately following the First Calculation Period).

The Preliminary Discharge Period, (the "Preliminary Discharge Period") which will apply in relation to the Preliminary Calculation Period, will be the three month period between 1 March 2015 and 31 May 2015, inclusive.

For each subsequent Calculation Period, the related Discharge Period (i.e. the period during which the Incremental Load-Out Requirement calculated in accordance with paragraph 4 below must be met) shall be the three month period starting on the date one calendar month following the end of that Calculation Period (the "Discharge Period"). By way of example, the First Discharge Period shall be the period between 1 June 2015 and 31 August 2015, inclusive (being the three month period starting on the date one calendar month following the end of the First Calculation Period) (the "First Discharge Period").



In relation to a particular DP Warehouse on any given Business Day, the Normal daily Minimum Load-Out Rate is the amount of metal required to be loaded out according to the LME requirements set out in Section C of this Policy (the "Normal Daily Minimum Load-Out Rate") as follows:

- (a) If, on the Business Day in question, a DP Warehouse is required to make an additional load-out of non-dominant metal (pursuant to paragraph 4 of Section C above), such additional load-out will be counted towards the Normal Daily Minimum Load- Out Rate for the Business Day in question.
- (b) If, on the Business Day in question, a DP Warehouse is required to make an additional load-out of nickel, tin and/or Aluminium Alloys (pursuant to paragraph 5 of Section C above), such additional load-out will be counted towards the Normal Daily Minimum Load-Out Rate for the Business Day in question.
- (c) Load-out of cobalt and RMC (paragraph 6 of Section C above) and steel billet (paragraph 7 of Section C above) will not be counted towards the Normal Daily Minimum Load-Out Rate, given that these metals are treated separately for the purposes of DP Warehouse load-out rates.

Re-warranted Metal ("Re-warranted Metal") is metal in respect of which a Warrant has been cancelled, but has not been loaded out of the DP Warehouse (due to the presence of a Queue or other operational constraint), and in respect of which the metal owner has requested that the Warehouse issues a new Warrant (and hence reverses the original request to deliver out that metal).

The Decay Factor shall be the coefficient applied in the equation at Section E, paragraph 4(b)(i). Until 31 July 2015 (i.e. for use in the First and Second Calculation Periods), the value of the Decay Factor shall be 0.5. From 1 August 2015 (i.e. for use in the Third and subsequent Calculation Periods), the value of the Decay Factor shall be 1.0. For the avoidance of doubt, the current and future values of the Decay Factor remain subject to modification pursuant to Section E, paragraph 6.

3. Affected DP Warehouses

On any given Business Day, an Affected DP Warehouse is a DP Warehouse with a Queue of greater than the Queue Threshold (the "Affected DP Warehouse"). Queue lengths will continue to be measured and reported to the LME by DP Warehouses, with the LME continuing to exercise oversight in respect of such measurements. For the avoidance of doubt, to the extent that a DP Warehouse has scheduled deliveries pursuant to any Incremental Load-Out Requirement arising per this policy, then the Queue length may take into account such incremental scheduled deliveries.

4. Calculating the Incremental Load-Out Requirement



The Incremental Load-Out Requirement shall mean the additional amount of metal that must be discharged by a DP Warehouse during the course of the relevant Discharge Period, over and above the load-out required by the Normal Daily Minimum Load-Out Rate on each day of that Discharge Period (the "Incremental Load-Out Requirement"). The Incremental Load-Out Requirement is derived on the final day of the relevant Calculation Period, as set out more fully in this section E, paragraph 4.

(a) During the Preliminary Calculation Period, each DP Warehouse shall maintain the calculation of its Cumulative Incremental Load-Out Quantity which is the quantity set to zero at the beginning of the Preliminary Calculation Period and increased incrementally on each Business Day of the Preliminary Calculation Period by the process set out in this section E, paragraph 4(a) (the "Cumulative Incremental Load-Out Quantity").

During the Preliminary Calculation Period, on each Business Day, the following value will be added to the Cumulative Incremental Load-Out Quantity:

(i) the amount of new metal placed on-warrant in the DP Warehouse on the Business Day in question (which, for the avoidance of doubt, shall not include Re-warranted Metal, steel, RMC nor cobalt);

less,

(ii) the higher of (i) the Normal Daily Minimum Load-Out Rate, and (ii) the actual amount of metal loaded-out of the DP Warehouse on the Business Day in question – provided that, for the purposes of (ii), loadout in excess of the Normal Daily Minimum Load-Out Rate which is made to compensate for a shortfall in load-out on a previous or subsequent Business Day (due, inter alia, to scheduling variations within a single load-out request per paragraph 2 of Section C above) shall not count towards the actual amount of metal loaded-out of the DP Warehouse.

On the final Business Day of the Preliminary Calculation Period, a DP Warehouse shall establish whether it is an Affected DP Warehouse at the end of that Business Day. If (i) the DP Warehouse is not an Affected DP Warehouse, or (ii) the calculated Cumulative Incremental Load-Out Quantity is less than or equal to zero, then the Incremental Load-Out Requirement for the Preliminary Calculation Period shall be set to zero, and no additional load-out requirements will hence be incurred during the Preliminary Discharge Period. If (i) the DP Warehouse is an Affected DP Warehouse, and (ii) the calculated Cumulative Incremental Load-Out Quantity is greater than zero, then the Incremental Load-Out Requirement for the Preliminary Calculation Period shall be set to the Cumulative Incremental Load-Out Quantity in relation to the Preliminary Calculation Period, and must be satisfied by the DP Warehouse during the Preliminary Discharge Period as set out in paragraph 5 below.



(b) During the First Calculation Period, and each subsequent Calculation Period, a DP Warehouse shall measure its Cumulative Load-In and Cumulative Normal Minimum Load-Out. Cumulative Normal Minimum Load-Out shall mean the sum of metal across every Business Day of the relevant Calculation Period that a DP Warehouse is required to load-out pursuant to the Normal Daily Minimum Load Out Rate (the "Cumulative Normal Minimum Load-Out"). Cumulative Load-In shall mean the sum, increased incrementally each Business Day of the relevant Calculation Period, of metal that the DP Warehouse loads-in during the relevant Calculation Period (the "Cumulative Load-In"). Both quantities will be set to zero at the beginning of the Calculation Period.

For each Business Day during the Calculation Period, the Cumulative Load-In will be increased by the amount of new metal placed on-warrant in the DP Warehouse on the Business Day in question (which, for the avoidance of doubt, shall not include Re-warranted Metal, steel, RMC nor cobalt).

For each Business Day during the Calculation Period, the Cumulative Normal Minimum Load-Out will be increased by the Normal Daily Minimum Load-Out Rate for the Business Day in question.

At the end of the Calculation Period, and if the DP Warehouse has been an Affected DP Warehouse on any Business Day during that Calculation Period, then the Incremental Load-Out Requirement will be calculated as:

- (i) 0.5 (the "Decay Factor") multiplied by the Cumulative Load-In, up to and including the Cumulative Normal Minimum Load-Out; plus,
- (ii) the Cumulative Load-In above the Cumulative Normal Minimum Load-Out.

For the avoidance of doubt, if the DP Warehouse has not been an Affected DP Warehouse on any day during that Calculation Period, then the Incremental Load-Out Requirement will be zero in respect of that Calculation Period.

5. Discharging the Incremental Load-Out Requirement

At the end of each Calculation Period, the then current Incremental Load-Out Requirement must be satisfied by the DP Warehouse during the Discharge Period associated with the Calculation Period having just concluded, provided load-out demand is present.

During the associated Discharge Period, the DP Warehouse will be required to load-out the Incremental Load-Out Requirement, in addition to its load-out obligations in accordance with Section C above. For the avoidance of doubt, the



DP Warehouse will not be held to any particular daily incremental load-out rate – however, in aggregate over the course of the Discharge Period, the full Incremental Load-Out Requirement must be satisfied.

The DP Warehouse must offer additional slots created to meet the Incremental Load-Out Requirement to metal owners strictly in order of their position in the Queue.

6. Adjusting the Decay Factor and/or Queue Threshold

The LME, acting reasonably, reserves the right to adjust the Decay Factor and/or the Queue Threshold either on a market-wide basis or on a per-DP Warehouse basis in order to enhance the orderly functioning of the market or to prevent abusive behaviour or for any other reason.

7. A worked example of the calculation

This worked example is provided for illustrative purposes only and should not be relied upon for any reason.

- (a) Consider a notional DP Warehouse with stocks of 2,000,000 tonnes of a single metal. Pursuant to the LME Policy Regarding the Approval of Warehouses, revised 1 February 2015, the Normal Daily Minimum Load-Out Rate is 3,000 tonnes per Business Day. Consider further that the DP Warehouse chooses to loadout precisely its Normal Daily Minimum Load-Out Rate (3,000 tonnes) on each Business Day.
- (b) Consider that, of the DP Warehouse's stocks, 1,000,000 tonnes are represented by cancelled metal. Assuming that owners of all of the cancelled metal have completed the necessary formalities, then the DP Warehouse's load-out Queue will hold 1,000,000 tonnes of metal. At a load-out rate of 3,000 tonnes per Business Day, the Queue length will be:
 - (i) 1,000,000 tonnes / 3,000 tonnes per Business Day
 - (ii) = 333.3 Business Days
 - (iii) = 465.3 calendar days (assuming all weekdays are Business Days)

For the avoidance of doubt, in practice, the Queue length will be determined by the Warehouse concerned on the basis of schedules provided to metal owners.

(c) Consider that the DP Warehouse places on-warrant a constant amount of 3,100 tonnes per Business Day. Consider also that, on each Business Day, Warrant holders cancel an amount of 3,000 tonnes of metal (thus balancing the delivery out of 3,000 tonnes per Business Day, resulting in a constant Queue length until such time as the Incremental Load-Out Requirement comes into effect). There is assumed to be no re-warranting of metal in this scenario.



(d) At the start of the Preliminary Calculation Period (1 July 2013), the Cumulative Incremental Load-Out Quantity is zero.

On each day during the Preliminary Calculation Period, the following value will be added to the Cumulative Incremental Load-Out Quantity:

(i) the amount of new metal placed on-warrant in the DP Warehouse on the Business Day in question (which, for the avoidance of doubt, shall not include Re-warranted Metal) (3,100 tonnes);

less,

- (ii) the higher of (i) the Normal Daily Minimum Load-Out Rate (3,000 tonnes), and (ii) the actual amount of metal loaded-out of the DP Warehouse on the Business Day in question (also 3,000 tonnes).
 - = 3,100 tonnes 3,000 tonnes = 100 tonnes
- (e) At the end of the Preliminary Calculation Period (31 January 2015), and assuming that each weekday during the Preliminary Calculation Period is a Business Day for the DP Warehouse (resulting in a total of 415 Business Days during the Preliminary Calculation Period), then the Cumulative Incremental Load-Out Quantity will total 41,500 tonnes.

Given that, per (c) above, the Queue will have retained a constant length, the Queue length at the end of the Preliminary Calculation Period will remain at 465.3 calendar days. On this basis, the Queue length is greater than 50 days, and the DP Warehouse is hence an Affected DP Warehouse at the end of the Preliminary Calculation Period.

Given that, on the final Business Day of the Preliminary Calculation Period, (i) the DP Warehouse is an Affected DP Warehouse, and (ii) the calculated Cumulative Incremental Load-Out Quantity is greater than zero, then the Incremental Load-Out Requirement will be set to the Cumulative Incremental Load-Out Quantity (41,500 tonnes), and must be satisfied by the DP Warehouse during the Preliminary Discharge Period.

- (f) During the Preliminary Discharge Period (1 March 2015 to 31 May 2015), the DP Warehouse will be required to load-out the Incremental Load-Out Requirement relating to the Preliminary Calculation Period (41,500 tonnes in total over the course of the Preliminary Discharge Period), in addition to its Normal Daily Minimum Load-Out Rate of 3,000 tonnes per Business Day.
- (g) At the start of the First Calculation Period (1 February 2015), the Cumulative Load-In and Cumulative Normal Minimum Load-Out are set to zero.

On each day during the First Calculation Period, the Cumulative Load-In will be increased by the amount of new metal placed on-warrant in the DP



Warehouse on the Business Day in question (which, for the avoidance of doubt, shall not include Re-warranted Metal) – in this case 3,100 tonnes.

On each day during the First Calculation Period, the Cumulative Normal Minimum Load-Out will be increased by the Normal Daily Minimum Load-Out Rate for the Business Day in question – in this case 3,000 tonnes.

(h) At the end of the First Calculation Period (30 April 2015), and assuming that each weekday during the First Calculation Period is a Business Day for the DP Warehouse (resulting in a total of 64 Business Days during the First Calculation Period), then the Cumulative Load-In will total 198,400 tonnes, and the Cumulative Normal Minimum Load-Out will total 192,000 tonnes.

On the basis that the DP Warehouse has been an Affected DP Warehouse for at least one Business Day during the First Calculation Period, then the Incremental Load-Out Requirement will be calculated as follows:

(i) Decay Factor multiplied by the Cumulative Load-In, up to and including the Cumulative Normal Minimum Load-Out;

plus,

(ii) the Cumulative Load-In above the Cumulative Normal Minimum Load-Out.

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= 0.5 \times 192,000 + (198,400 - 192,000) = 96,000 + 6,400
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= 102,400 tonnes

- (i) During the First Discharge Period (1 June 2015 to 31 August 2015), the DP Warehouse will be required to load-out the Incremental Load-Out Requirement relating to the First Calculation Period (102,400 tonnes in total over the course of the First Discharge Period), in addition to its Normal Daily Minimum Load-Out Rate of 3,000 tonnes per Business Day, provided loadout demand is present.
- (j) This process continues through the Second Calculation Period (and associated Second Discharge Period), Third Calculation Period (and associated Third Discharge Period) and so on, incorporating the increased value of the Decay Factor in the Third and subsequent Calculation Periods, until such time as the DP Warehouse ceases to be an Affected DP Warehouse.



F) Continued compliance with the LME policy for Warehouses

- A Warehouse must at all times comply with the Warehouse Requirements. In the
 event that a Warehouse does not appear to meet the Warehouse Requirements,
 there will be an initial review by the LME and consultation with the Warehouse
 concerned.
- 2. If the Warehouse can demonstrate that it will upgrade facilities or work practices to meet the LME's new standards, the LME will consider the appropriate amount of time to allow for such a process. Warehouses could, for example, be given, a period of time to upgrade their facilities or relocate to a more suitable building within the Delivery Point, but this would be determined on a case by case basis, according to the circumstances.
- 3. If after consultation with the Warehouse, the Warehouse is unwilling or unable to upgrade its facilities or work practices to meet the LME's standards, the LME retains the right to restrict the capacity of that Warehouse (or DP Warehouse as appropriate) or to delist it. In particular, if a Warehouse fails to comply with the Linked Load-In and Load-Out Requirements per Section E, then the Board may (among other actions) restrict the ability of that Warehouse to create Warrants in that Delivery Point until load-in and load-out are brought into alignment pursuant to the requirements.
- 4. Prior to implementation, the LME would give the necessary notice of any action to be taken to the Warehouse and allow for formal representations to be made.

G) Review of LME policy for Warehouses

This policy will be reviewed at least on a biennial basis.

H) General Definitions

"Authorised Warehouse" shall mean a warehouse storage facility operated by a Warehouse in a particular Delivery Point, which has been approved by the LME for the purposes of the Warehouse Agreement.

"Delivery Point" shall mean a specific geographic area within which warehouses are listed and approved by the LME for the issue of Warrants.

"DP Warehouse" shall mean all the Authorised Warehouses of a particular Warehouse within a Delivery Point.

"EXCOM" shall mean the Executive Committee of the LME.

"Group" shall mean, in relation to a company, any subsidiary or any holding company from time to time of that company, and any subsidiary from time to time of



a holding company of that company. The terms "holding company" and "subsidiary" have the meanings given to them in section 1159 of the Companies Act 2006.

"LILO Rule" shall mean the requirements set out in Section E of this policy.

"LME" or the "Exchange" shall mean the London Metal Exchange.

"LME Special Committee" shall mean the LME Committee to which the LME Directors have delegated the emergency powers under Regulation 15 of Part 3 of the LME Rulebook, as permitted by the Articles of Association of the LME.

"LME Contract" shall mean a contract as defined by the LME Rulebook.

"Load-out" shall mean a delivery of metal out of the premises of an Authorised Warehouse which meets the requirements of this policy (including for the avoidance of doubt paragraph C9).

"Location" shall mean a geographic area capable of being a Delivery Point.

"Queue" means circumstances where load-out requests cannot be serviced immediately by a Warehouse, measured by the number of calendar days a metal owner cancelling a Warrant today must wait for a scheduled delivery slot.

"RMC" shall mean roasted molybdenum concentrate.

"Warehouse" shall mean a warehouse company which has been approved by the LME and which has agreed to be bound by the terms and conditions applicable to all LME approved warehouses, as amended by the LME from time to time.

"Warehouse Agreement" shall mean the terms and conditions entered into between the Warehouse and the LME, as applicable to all LME listed Warehouses.

"Warrant" shall mean a warehouse warrant for the storage of metal, issued by a Warehouse and in a form approved by the LME.