

Office of the Secretariat
Commodity Futures Trading Commission
Three Lafayette Centre
1155 21st Street, N.W.
Washington, DC 20581

Pursuant to section 5c(c)(1) of the Commodity Exchange Act, as amended (the 'Act'), and section 41.23 of the regulations promulgated by the Commodity Futures Trading Commission (the 'Commission') under the Act, submitted herewith are contract specifications for a new product or products, as appropriate, (the 'New Product') that will be listed for trading on OneChicago, LLC ('OneChicago'). The New Product will be subject to the Rules set forth in Chapter IX of the OneChicago Rulebook, as supplemented by the specifications supplement attached hereto.

OneChicago hereby certifies that: (a) the security underlying the New Product satisfies the requirements of section 41.21 of the regulations promulgated by the Commission under the Act; (b) if the New Product is physically settled, arrangements are in place with a clearing agency registered pursuant to section 17A of the Securities Exchange Act of 1934 (the 'Exchange Act') for the payment and delivery of the security underlying the New Product; (c) only futures commission merchants, introducing brokers, commodity trading advisors, commodity pool operators or associated persons subject to suitability rules comparable to those of a national securities association registered pursuant to section 15A(a) of the Exchange Act and the rules and regulations thereunder, except to the extent otherwise permitted under the Exchange Act and the rules and regulations thereunder, may solicit, accept any order for, or otherwise deal in any transaction in or in connection with the New Product; (d) dual trading in the New Product is restricted in accordance with section 41.27 of the regulations promulgated by the Commission under the Act; (e) trading in the New Product is not readily susceptible to manipulation of the price of any New Product, nor to causing or being used in the manipulation of the price of any underlying security, option on such security, or option on a group or index including such security, consistent with the conditions for trading of section 41.25 of the regulations promulgated by the Commission under the Act; (f) procedures are in place for coordinated surveillance among OneChicago, any market on which the security underlying a New Product is traded and other markets on which any related security is traded to detect manipulation and insider trading; (g) an audit trail is in place to facilitate coordinated surveillance among OneChicago, any market on which the security underlying the New Product is traded, and any market on which any related security is traded; (h) procedures are in place to coordinate regulatory trading halts between OneChicago and markets on which the security underlying the New Product is traded and other markets on which any related security is traded; and (i) the margin requirements for the New Product will comply with the provisions specified in sections 41.43 through 41.48 of the regulations promulgated by the Commission under the Act.

OneChicago hereby further certifies that the New Product complies with the additional conditions for trading set forth in section 41.25 of the regulations promulgated by the Commission under the Act, and complies with the Act and the regulations thereunder.

Respectfully Submitted,

OneChicago, LLC

Product Listing

Action	Sup. No.	Symbol	Primary Symbol	Primary CUSIP	Mult.	Expiry Cycle	Settlement Type	Settlement Cycle	Dividend Exposure	Regulatory Symbol	Effective Date
UPDATE	20531	AER1D	AER	N00985106	100.000000	SSQQ	PHYS	T+3	NDR	AER1	20161213
UPDATE	20532	ARCC1D	ARCC	04010L103	100.000000	SSQQ	PHYS	T+3	NDR	AIBU1	20161213
UPDATE	20533	DHT1D	DHT	Y2065G121	100.000000	SSQQ	PHYS	T+3	NDR	DDFI1	20161213
UPDATE	20534	EURN1D	EURN	B38564108	100.000000	SSQQ	PHYS	T+3	NDR	EURN1	20161213
UPDATE	20535	FRO1D	FRO	G3682E192	100.000000	SSQQ	PHYS	T+3	NDR	FRFW1	20161213
UPDATE	20536	MTN1D	MTN	91879Q109	100.000000	SSQQ	PHYS	T+3	NDR	MVQK1	20161213
UPDATE	20537	NBTB1D	NBTB	628778102	100.000000	SSQQ	PHYS	T+3	NDR	NYRV1	20161213
UPDATE	20538	SHAK1D	SHAK	819047101	100.000000	SSQQ	PHYS	T+3	NDR	SHAK1	20161213
UPDATE	20539	TPVG1D	TPVG	89677Y100	100.000000	SSQQ	PHYS	T+3	NDR	TPVG1	20161213
UPDATE	20622	AER1M	AER	N00985106	100.000000	1M	PHYS	T+1	NDR	ARWI1	20170130
UPDATE	20623	AER1T	AER	N00985106	100.000000	1T	PHYS	T+1	NDR	ARWI1	20161227
UPDATE	20624	AER1W	AER	N00985106	100.000000	1W	PHYS	T+1	NDR	ARWI1	20161228
UPDATE	20625	AER1H	AER	N00985106	100.000000	1H	PHYS	T+1	NDR	ARWI1	20161229
UPDATE	20626	AER1F	AER	N00985106	100.000000	1F	PHYS	T+1	NDR	ARWI1	20161230
UPDATE	20627	AER2M	AER	N00985106	100.000000	2M	PHYS	T+1	NDR	ARWI1	20170103
UPDATE	20628	AER2T	AER	N00985106	100.000000	2T	PHYS	T+1	NDR	ARWI1	20170103
UPDATE	20629	AER2W	AER	N00985106	100.000000	2W	PHYS	T+1	NDR	ARWI1	20170104
UPDATE	20630	AER2H	AER	N00985106	100.000000	2H	PHYS	T+1	NDR	ARWI1	20170105
UPDATE	20631	AER2F	AER	N00985106	100.000000	2F	PHYS	T+1	NDR	ARWI1	20170106
UPDATE	20632	AER3M	AER	N00985106	100.000000	3M	PHYS	T+1	NDR	ARWI1	20170313
UPDATE	20633	AER3T	AER	N00985106	100.000000	3T	PHYS	T+1	NDR	ARWI1	20161213
UPDATE	20634	AER3W	AER	N00985106	100.000000	3W	PHYS	T+1	NDR	ARWI1	20161214
UPDATE	20635	AER3H	AER	N00985106	100.000000	3H	PHYS	T+1	NDR	ARWI1	20170112

UPDATE	20636	AER3F	AER	N00985106	100.000000	3F	PHYS	T+1	NDR	ARWI1	20170113
UPDATE	20637	AER4M	AER	N00985106	100.000000	4M	PHYS	T+1	NDR	ARWI1	20170117
UPDATE	20638	AER4T	AER	N00985106	100.000000	4T	PHYS	T+1	NDR	ARWI1	20161220
UPDATE	20639	AER4W	AER	N00985106	100.000000	4W	PHYS	T+1	NDR	ARWI1	20161221
UPDATE	20640	AER4H	AER	N00985106	100.000000	4H	PHYS	T+1	NDR	ARWI1	20161215
UPDATE	20641	AER4F	AER	N00985106	100.000000	4F	PHYS	T+1	NDR	ARWI1	20161216
UPDATE	20642	AER5M	AER	N00985106	100.000000	5M	PHYS	T+1	NDR	ARWI1	20170123
UPDATE	20643	AER5T	AER	N00985106	100.000000	5T	PHYS	T+1	NDR	ARWI1	20170124
UPDATE	20644	AER5W	AER	N00985106	100.000000	5W	PHYS	T+1	NDR	ARWI1	20170322
UPDATE	20645	AER5H	AER	N00985106	100.000000	5H	PHYS	T+1	NDR	ARWI1	20161222
UPDATE	20646	AER5F	AER	N00985106	100.000000	5F	PHYS	T+1	NDR	ARWI1	20161223

How To Read This Document

EXPIRY CYCLE

SSQQ - A monthly expiration cycle that lists two serial months and two following quarters expiring on the third Friday of each month.

SS - A monthly expiration cycle that lists two serial months expiring on the third Friday of each month.

[1-5][M-F] - Signifies the weekly expiration cycle. Weekly contracts are listed for 7 day terms, by the day of the week and the weekday occurrence in the month.

SETTLEMENT TYPE

PHYS - Physical underlying settlement for all components that make up the future listing.

CASH - Cash value settlement for all components that make up the future listing.

SETTLEMENT CYCLE

T+1 - For each underlying security, settlement takes place the 1st business day after expiration.

T+3 - For each underlying security, settlement takes place the 3rd business day after expiration.

DIVIDEND EXPOSURE

TRA - The traditional single stock future product has no adjustments made to the previous day's settlement price.

NDR - On dividend ex-date, the previous day's settlement price is adjusted down for the amount of the declared distributions.

ACTION

NEW - Initial listing announcement. Properties of this product have changed prior to its effective date.

UPDATE - This product has already been announced. Before the effective date, properties of this product have changed.

DELETE - This product has already been announced and will not longer be listed.

EFFECTIVE DATE

When Action is NEW or UPDATE, the effective date is the first available date.

When Action is DELETE, the effective date is the delisting date.

How To Read This Document

POSITION LIMIT

Position limits are stated in contracts of single stock futures. For the purpose of assessing position limits, all positions in SSFs containing the same underlying security with contracts that expire on the same day are aggregated.

Product Definition - Supplement

SUPPLEMENT NO	20531
FUTURE NAME	AER T3 P NDR
FUTURE SYMBOL	AER1D
REGULATORY SYMBOL	AER1

MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+3
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20532
FUTURE NAME	ARCC T3 P NDR
FUTURE SYMBOL	ARCC1D
REGULATORY SYMBOL	AIBU1
MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+3
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500
<u>UNDERLYING</u>	
SECURITY NAME	Ares Capital Corp
SECURITY SYMBOL	ARCC
SECURITY CUSIP/CINS	04010L103
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20533
FUTURE NAME	DHT T3 P NDR
FUTURE SYMBOL	DHT1D
REGULATORY SYMBOL	DDFI1
MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+3
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500
<u>UNDERLYING</u>	
SECURITY NAME	DHT Holdings Inc
SECURITY SYMBOL	DHT
SECURITY CUSIP/CINS	Y2065G121
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20534
FUTURE NAME	EURN T3 P NDR
FUTURE SYMBOL	EURN1D
REGULATORY SYMBOL	EURN1

MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+3
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

UNDERLYING

SECURITY NAME	Euronav NV
SECURITY SYMBOL	EURN
SECURITY CUSIP/CINS	B38564108
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20535
FUTURE NAME	FRO T3 P NDR
FUTURE SYMBOL	FRO1D
REGULATORY SYMBOL	FRFW1

MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+3
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

UNDERLYING

SECURITY NAME	Frontline Ltd/Bermuda
SECURITY SYMBOL	FRO
SECURITY CUSIP/CINS	G3682E192
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20536
FUTURE NAME	MTN T3 P NDR
FUTURE SYMBOL	MTN1D
REGULATORY SYMBOL	MVQK1
MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+3
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500
<u>UNDERLYING</u>	
SECURITY NAME	Vail Resorts Inc
SECURITY SYMBOL	MTN
SECURITY CUSIP/CINS	91879Q109
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20537
FUTURE NAME	NBTB T3 P NDR
FUTURE SYMBOL	NBTB1D
REGULATORY SYMBOL	NYRV1
MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+3
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500
<u>UNDERLYING</u>	
SECURITY NAME	NBT Bancorp Inc
SECURITY SYMBOL	NBTB
SECURITY CUSIP/CINS	628778102
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20538
FUTURE NAME	SHAK T3 P NDR
FUTURE SYMBOL	SHAK1D
REGULATORY SYMBOL	SHAK1

MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+3
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

UNDERLYING

SECURITY NAME	Shake Shack Inc
SECURITY SYMBOL	SHAK
SECURITY CUSIP/CINS	819047101
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20539
FUTURE NAME	TPVG T3 P NDR
FUTURE SYMBOL	TPVG1D
REGULATORY SYMBOL	TPVG1

MULTIPLIER	100.000000
EXPIRATION CYCLE	SSQQ
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+3
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

UNDERLYING

SECURITY NAME	TriplePoint Venture Growth BDC
SECURITY SYMBOL	TPVG
SECURITY CUSIP/CINS	89677Y100
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20622
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER1M
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	1M
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20623
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER1T
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	1T
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

UNDERLYING

SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20624
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER1W
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	1W
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

UNDERLYING

SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20625
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER1H
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	1H
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20626
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER1F
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	1F
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20627
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER2M
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	2M
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

UNDERLYING

SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20628
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER2T
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	2T
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20629
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER2W
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	2W
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20630
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER2H
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	2H
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20631
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER2F
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	2F
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

UNDERLYING

SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20632
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER3M
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	3M
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20633
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER3T
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	3T
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20634
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER3W
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	3W
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20635
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER3H
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	3H
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20636
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER3F
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	3F
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

UNDERLYING

SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20637
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER4M
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	4M
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20638
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER4T
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	4T
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20639
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER4W
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	4W
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20640
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER4H
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	4H
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

UNDERLYING

SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20641
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER4F
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	4F
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20642
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER5M
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	5M
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20643
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER5T
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	5T
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20644
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER5W
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	5W
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20645
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER5H
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	5H
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000

Product Definition - Supplement

SUPPLEMENT NO	20646
FUTURE NAME	AER T1 P NDR
FUTURE SYMBOL	AER5F
REGULATORY SYMBOL	ARWI1

MULTIPLIER	100.000000
EXPIRATION CYCLE	5F
SETTLEMENT TYPE	PHYS
SETTLEMENT CYCLE	T+1
DIVIDEND EXPOSURE	NDR
POSITION LIMIT	13500

<u>UNDERLYING</u>	
SECURITY NAME	AerCap Holdings NV
SECURITY SYMBOL	AER
SECURITY CUSIP/CINS	N00985106
SECURITY TYPE	Common Stock
SECURITY SHARES	100.000000