| BROKER OR DEALER | | |
|--------------------------|-------|----------|
| | as of | 12/31/16 |
| MORGAN STANLEY & CO. LLC | | 12/01/10 |

STATEMENT OF SEGREGATION REQUIREMENTS AND FUNDS IN SEGREGATION FOR CUSTOMERS TRADING ON U.S. COMMODITY EXCHANGES

| SEGREGATION REQUIREMENTS (Section 4d(2) of the CEAct) | | | | | |
|--|------------------|--------------|------|----------------|------|
| . Net ledger balance | | | | | |
| A. Cash | | | \$ | 9,191,385,368 | 7010 |
| B. Securities (at market) | | | | 6,061,656,717 | 7020 |
| 2. Net unrealized profit (loss) in open futures contracts traded on a contract m | narket | | | (114,669,181) | 7030 |
| B. Exchange traded options | | | | | |
| A. Add market value of open option contracts purchased on a contract mark | ket | | | 373,937,027 | 7032 |
| B. Deduct market value of open option contracts granted (sold) on a contract | ct market | | (| 361,139,999) | 7033 |
| I. Net equity (deficit) (add lines 1, 2, and 3) | | | | 15,151,169,932 | |
| 5. Accounts liquidating to a deficit and accounts with debit balances | | | | | |
| - gross amount | | 208,521,514 | 7045 | | |
| | | | | | |
| Less: amount offset by customer owned securities | (| 208,338,802) | 7047 | 182,712 | 7050 |
| 5. Amount required to be segregated (add lines 4 and 5) | ` | | * | 15,151,352,644 | 7060 |
| | | | | | |
| FUNDS IN SEGREGATED ACCOUNTS | | | | | |
| 7. Donosited in accurated fineds book assessed | | | | | |
| 7. Deposited in segregated funds bank accounts | | | | | 7070 |
| A. Cash | | | | 4,734,044,560 | 7070 |
| B. Securities representing investments of customers' funds (at market) | ah (at manulant) | | | 0 | 7080 |
| C. Securities held for particular customers or option customers in lieu of case | | | | 574,079,976 | 7090 |
| Margins on deposit with derivatives clearing organizations of contract mark | ets | | • | | 7400 |
| A. Cash | | | \$ | 4,641,610,325 | 7100 |
| B. Securities representing investments of customers' funds (at market) | | | | | 7110 |
| C. Securities held for particular customers or option customers in lieu of case | , | | | 5,487,576,741 | 7120 |
| Net settlement from (to) derivatives clearing organizations of contract mark | ets | | | (33,359,713) | 7130 |
| 0. Exchange traded options | | | | | 7400 |
| A. Value of open long option contracts | | | | 0.0,00.,02. | 7132 |
| B. Value of open short option contracts | | | (| 361,139,999 | 7133 |
| 1. Net equities with other FCMs | | | | | |
| A. Net liquidating equity | | | | 6,827,372 | 7140 |
| B. Securities representing investments of customers' funds (at market) | | | | | 7160 |
| C. Securities held for particular customers or option customers in lieu of case | sh (at market) | | | | 7170 |
| 2. Segregated funds on hand (describe: | | |) | <u>_</u> | 7150 |
| 3. Total amount in segregation (add lines 7 through 12) | | | | 15,423,576,289 | 7180 |
| 4. Excess (deficiency) funds in segregation (subtract line 6 from line 13) | | | \$ | 272,223,645 | 7190 |
| 5. Management Target Amount for Excess funds in segregation | | | \$ | 210,000,000 | 7194 |

\$ 62,223,645 7198

16. Excess (deficiency) funds in segregation over (under) Management Target Amount Excess

| BROKER OR DEALER | | |
|--------------------------|-------|----------|
| | as of | 12/31/16 |
| MORGAN STANLEY & CO. LLC | | |

STATEMENT OF SEGREGATION REQUIREMENTS AND FUNDS IN SEGREGATION FOR CUSTOMERS' DEALER OPTIONS ACCOUNTS

| 1. Amount required to be segregated in accordance | | |
|---|-------------------------|-------------------|
| with Commission regulation 32.6 | \$ | 0 7200 |
| 2. Funds in segregated accounts | | |
| A. Cash | \$ ₀ 7210 | |
| B. Securities (at market) | 0 7220 | |
| C. Total | | ₀ 7230 |
| 3. Excess (deficiency) funds in segregation | | |
| (subtract line 2.C from line 1) | \$ | 0 7240 |

| BROKER OR DEALER | | |
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| MORGAN STANLEY & CO. LLC | as of | 12/31/16 |

STATEMENT OF SECURED AMOUNTS AND FUNDS HELD IN SEPARATE ACCOUNTS PURSUANT TO COMMISSION REGULATION 30.7

| FOREIGN FUTURES AND FOREIGN OPTIONS SECURED AMOUNTS | | | |
|---|-----------------|----|--------------------|
| Amount required to be set aside pursuant to law, rule or regulation of a foreign government or a rule of a self-regulatory organization authorized thereunder | | | ₀ 7305 |
| 1. Net ledger balance - Foreign Futures and Foreign Option Trading - All Custo | omers | | |
| A. Cash | | \$ | 2,787,771,652 7315 |
| B. Securities (at market) | | | 1,346,697,804 7317 |
| 2. Net unrealized profit (loss) in open futures contracts traded on a foreign board of trade | | | 288,333,432 7325 |
| 3. Exchange traded options | | | |
| A. Market value of open option contracts purchased on a foreign board of trade | | | 19,763,424 7335 |
| B. Market value of open contracts granted (sold) on a foreign board of trade | | | (3,796,619) 7337 |
| 4. Net equity (deficit) (add lines 1. 2. and 3.) | | \$ | 4,438,769,693 7345 |
| 5. Accounts liquidating to a deficit and accounts with | | | |
| debit balances - gross amount | \$ 15,902,297 | 51 | |
| Less: amount offset by customer owned securities | (11,541,867) 73 | 52 | 4,360,430 7354 |
| 6. Amount required to be set aside as the secured amount - Net Liquidating Equity Method (add lines 4 and 5) | | \$ | 4,443,130,123 7355 |
| 7. Greater of amount required to be set aside pursuant to foreign jurisdiction (above) or line 6. | | \$ | 4,443,130,123 7360 |

| BROKER OR DEALER | | |
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| MODOWN STANILENA CO. LLO | as of | 12/31/16 |
| MORGAN STANLEY & CO. LLC | | |

STATEMENT OF SECURED AMOUNTS AND FUNDS HELD IN SEPARATE ACCOUNTS PURSUANT TO COMMISSION REGULATION 30.7

| FUNDS DEPOSITED IN SEPARATE REGULATION 30.7 ACCOUNTS | | | |
|--|--------------|---------------------|--------------------|
| 1. Cash in banks | | | |
| A. Banks located in the United States | \$ | 360,595,361 7500 | |
| B. Other banks qualified under Regulation 30.7 | | | |
| Name(s): 0 7510 | | 473,706,182 7520 | 834,301,543 7530 |
| 2. Securities | · | _ | |
| A. In safekeeping with banks located in the United States | \$ | 518,899,743 7540 | |
| B. In safekeeping with other banks qualified under Regulation 30.7 | | | |
| Name(s): 0 7550 | | 0 7560 | 518,899,743 7570 |
| 3. Equities with registered futures commission merchants | | | |
| A. Cash | \$ | ₀ 7580 | |
| B. Securities | | 0 7590 | |
| C. Unrealized gain (loss) on open futures contracts | | ₀ 7600 | |
| D. Value of long option contracts | | ₀ 7610 | |
| E. Value of short option contracts | (| <u>o</u>) 7615 | 0 7620 |
| 4. Amounts held by clearing organizations of foreign boards of trade | | | |
| Name(s): <u>0</u> 7630 | | | |
| A. Cash | \$ | 0 7640 | |
| B. Securities | | 0 7650 | |
| C. Amount due to (from) clearing organizations - daily variation | | 0 7660 | |
| D. Value of long option contracts | | 0 7670 | |
| E. Value of short option contracts | (| ₀) 7675 | 0 7680 |
| 5. Amounts held by members of foreign boards of trade | | | |
| Name(s): <u>0</u> 7690 | | | |
| A. Cash | \$ | 2,165,758,285 7700 | |
| B. Securities | | 827,798,061 7710 | |
| C. Unrealized gain (loss) on open futures contracts | | 288,329,016 7720 | |
| D. Value of long option contracts | | 19,763,424 7730 | |
| E. Value of short option contracts | (| (3,796,615) 7735 | 3,297,852,171 |
| 6. Amounts with other depositories designated by a foreign board of trade | | | |
| Name(s): <u>0</u> 7750 | | | 0 7760 |
| 7. Segregated funds on hand (describe: |) | | 0 7765 |
| 8. Total funds in separate section 30.7 accounts | | \$ | 4,651,053,457 7770 |
| 9. Excess (deficiency) set Aside Funds for Secured Amount (subtract Line 7 | ' Secured | | |
| Statement page 15 from Line 8) | | \$ | 207,923,334 7380 |
| 10. Management Target Amount for Excess funds in separate section 30.7 a | accounts | \$ | 160,000,000 7780 |
| 11. Excess (deficiency) funds in separate 30.7 accounts over (under) Mana | gement Targe | t \$ | 47,923,334 7785 |

| BROKER OR DEALER | | |
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| MORGAN STANLEY & CO. LLC | as of | 12/31/16 |

STATEMENT OF CLEARED SWAPS CUSTOMER SEGREGATION REQUIREMENTS AND FUNDS IN CLEARED SWAPS CUSTOMER ACCOUNTS UNDER 4D(F) OF THE CEA

| Cleared Swaps Customer Requirements | | | | |
|---|------------------------------|----|--------------------|---|
| 1. Net ledger balance | | | | |
| A. Cash | | \$ | 6,909,054,122 | 0 |
| B. Securities (at market) | | | 6,314,629,074 | 0 |
| 2. Net unrealized profit (loss) in open cleared swaps | | | 1,095,230,452 | 0 |
| 3. Cleared swaps options | | | | |
| A. Market value of open cleared swaps option contracts purchased | | | 0 8530 | |
| B. Market value of open cleared swaps option contracts granted (sold) | | (| 0) 8540 | 0 |
| 4. Net equity (deficit) (add lines 1, 2, and 3) | | \$ | 14,318,913,648 | 0 |
| 5. Accounts liquidating to a deficit and accounts with | | | | |
| debit balances - gross amount | \$ 177,968,564 8560 | | | |
| Less: amount offset by customer owned securities | (176,371,587)[8570] | | 1,596,977 | 0 |
| 6. Amount required to be segregated for cleared swaps customers (add lines 4 | and 5) | \$ | 14,320,510,625 | 0 |
| Funds in Cleared Swaps Customer Segregated Accounts | | | | |
| 7. Deposited in cleared swaps customer segregated accounts at banks | | | | |
| A. Cash | | \$ | 2,486,328,830 8600 | 0 |
| B. Securities representing investments of cleared swaps customers' funds (a | t market) | · | 0 8610 | _ |
| C. Securities held for particular cleared swaps customers in lieu of cash (at n | narket) | | 324,179,652 | 0 |
| 8. Margins on deposit with derivatives clearing organizations in cleared swaps of | customer segregated accounts | | | |
| A. Cash | | | 5,907,206,230 8630 | 0 |
| B. Securities representing investments of cleared swaps customers' funds (a | t market) | | 0 864 | 0 |
| C. Securities held for particular cleared swaps customers in lieu of cash (at n | narket) | | 5,990,449,422 | 0 |
| 9. Net settlement from (to) derivatives clearing organizations | | | (269,354,330) 8660 | 0 |
| 10. Cleared swaps options | | | | |
| A. Value of open cleared swaps long option contracts | | | 0 867 | 0 |
| B. Value of open cleared swaps short option contracts | | (| 0) 8680 | 0 |
| 11. Net equities with other FCMs | | | | |
| A. Net liquidating equity | | | 0 869 | 0 |
| B. Securities representing investments of cleared swaps customers' funds (a | t market) | | 0 870 | 0 |
| C. Securities held for particular cleared swaps customers in lieu of cash (at n | narket) | | 0 871 | 0 |
| 12. Cleared swaps customer funds on hand (describe: |) | | 0 871 | 5 |
| 13. Total amount in cleared swaps customer segregation (add lines 7 through 1 | 2) | \$ | 14,438,809,804 | 0 |
| 14. Excess (deficiency) funds in cleared swaps customer segregation (subtract | line 6 from line 13) | \$ | 118,299,179 | 0 |
| 15. Management Target Amount for Excess funds in cleared swaps segregated | accounts | \$ | 92,000,000 876 | 0 |
| 16. Excess (deficiency) funds in cleared swaps customer segregated accounts | over | | | |
| (under) Management Target Excess | | \$ | 26,299,179 8770 | 0 |