## COMMITTEE ON CAPITAL MARKETS REGULATION

January 28, 2013

Rodrigo Buenaventura Head, Markets Division European Securities and Markets Authority 103 Rue de Grenelle 75007 Paris, France Gary Gensler Chairman, Commodity Futures Trading Commission 1155 21<sup>st</sup> Street, NW Washington, DC 20581

Patrick Pearson Head of Unit, Financial Markets Infrastructure The European Commission B-1049 Brussels, Belgium

RE: European Union and United States Need to Resolve Differences Between Their Clearinghouse Requirements

Dear Messrs. Buenaventura, Gensler, and Pearson:

The Committee's staff has compared the proposed regulation of the E.U. over-the-counter derivatives market via the European Market Infrastructure Regulation ("EMIR") and the European Securities and Markets Authority ("ESMA") final technical standards ("E.U. regime") against the corresponding U.S. regulatory regime, chiefly comprising Title VII of the Dodd-Frank Wall Street Reform and Consumer Protection Act ("Dodd-Frank Act") and certain U.S. Commodity Futures Trading Commission ("CFTC") rules implementing Title VII ("U.S. regime"). The comparison revealed significant differences between the clearinghouse requirements of the two jurisdictions, as set forth in detail in the Appendix hereto. (For purposes of this memorandum, "clearinghouse" refers to "U.S. Derivatives Clearing Organizations" ("DCOs") or "E.U. Central Clearinghouse Counterparties" ("CCPs"), as the case may be).

The CFTC proposed guidance interprets Section 722 of Dodd-Frank<sup>1</sup> to require cross-border swaps between a U.S. person and a foreign person to be cleared by a CFTC-recognized clearinghouse.<sup>2</sup> Similarly, EMIR requires cross-border swaps between an E.U. person and a foreign person to be cleared by an ESMA-recognized clearinghouse.<sup>3</sup> Thus, the CFTC would require a swap between a U.S. and an E.U. bank to be cleared by a CFTC-

<sup>&</sup>lt;sup>1</sup> Dodd-Frank Wall Street Reform and Consumer Protection Act § 722, Pub. L. No. 111-203 (2010) [hereinafter "Dodd-Frank Act"].

<sup>&</sup>lt;sup>2</sup> Cross-Border Application of Certain Swaps Provisions of the Commodity Exchange Act, 77 Fed. Reg. 41,214, 41,218 (July 12, 2012) [hereinafter "Cross-Border Regulation"].

<sup>&</sup>lt;sup>3</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 17 (EU) [hereinafter "OTC Regulation"].

recognized clearinghouse, while EMIR would simultaneously require such a swap to be cleared by an ESMA-recognized clearinghouse.

The CFTC proposed guidance has defined a "U.S person" broadly to include certain entities located in the E.U. for example, an E.U. branch or agency of a U.S. bank. Because the European Commission has not yet implemented EMIR, the CFTC has issued exemptive orders that narrow the definition of "U.S. person" to exclude foreign branches until July 12, 2013. Chairman Gensler has indicated that this narrow definition is only temporary, and once the relevant orders expire, jurisdictional overlap between the CFTC proposed guidance and EMIR will once again be a concern.

Due to this jurisdictional overlap, E.U. and U.S. persons will only be able to clear E.U.-U.S. cross-border swaps in clearinghouses recognized by both the CFTC and the European Commission. If the conflicting requirements of the CFTC proposed guidance and EMIR is left unresolved, separate clearinghouses will necessarily develop for swaps between E.U. counterparties and swaps between U.S. counterparties, thus reducing netting opportunities for each class of swap and resulting in unnecessarily burdensome collateral requirements for market participants. There are two ways to resolve this jurisdictional overlap, either through "dual registration" or "foreign recognition."

Dual registration would involve registration of an E.U. clearinghouse with the CFTC and of a U.S. clearinghouse with the ESMA, subjecting a dually registered clearinghouse to both E.U. and U.S. clearinghouse requirements. Where differences between the two regimes persist, a dually registered clearinghouse would comply with the more stringent requirements of either regime. A dually registered E.U. clearinghouse could clear E.U.-U.S. cross-border swaps and swaps between U.S. persons; similarly, a dually registered U.S. clearinghouse could clear E.U.-U.S. cross-border swaps as well as swaps between E.U. persons.

The "dual registration" solution presents two key concerns. First, because the more stringent requirements of each regime would apply to dually registered clearinghouses, these clearinghouses would impose more burdensome clearing requirements on their members than clearinghouses registered in only one jurisdiction. Market fragmentation and reduced netting opportunities may result if certain E.U. or U.S. clearinghouses choose to forego dual registration in order to offer members less burdensome clearing requirements. Second, although E.U. clearinghouses are able to register with the CFTC, for example LCH.Clearnet and ICE Europe. 5 EMIR does not allow foreign clearinghouses to register by the standard process applicable to E.U. clearinghouses. 6 Thus, U.S. clearinghouses would be unable to clear E.U.-U.S. cross-border swaps, or swaps between E.U. persons, while E.U. clearinghouses, registered with the CFTC, would be able to clear E.U.-U.S. cross-border swaps and swaps between U.S. persons.

The CFTC and European Commission both have the authority to grant "recognition" of a foreign clearinghouse regime. The Dodd-Frank Act authorizes the CFTC to recognize

<sup>&</sup>lt;sup>4</sup> Cross-Border Regulation, supra note 2, at 41,234.

<sup>&</sup>lt;sup>6</sup> OTC Regulation, *supra* note 3, 25, 29.

foreign clearinghouses that are subject to "comparable, comprehensive supervision and regulation" by their home authorities. EMIR authorizes the European Commission to recognize foreign clearinghouses if the foreign regime imposes "legally binding requirements which are equivalent to" EMIR's requirements for E.U. clearinghouses.<sup>7</sup>

In the Committee's judgment, "foreign recognition" offers several advantages to "dual registration." Most importantly, foreign recognized clearinghouses would only be subject to their home country's clearinghouse requirements. Thus, unlike "dual registration," clearinghouses that clear E.U.-U.S. cross-border swaps would not be required to impose the most stringent clearing requirements of either regime on their members. Foreign recognition would thus solve for the issues of market fragmentation and reduced netting opportunities. Furthermore, clearinghouses would not be forced to undertake the burdensome and duplicative process of registering with multiple regulatory authorities.

Foreign recognition is currently in place in certain E.U. member states. For example, the United Kingdom has recognized the U.S. clearinghouse regime. Thus, U.S. clearinghouses are able to clear for U.K. persons until EMIR and the ESMA technical standards become effective; once EMIR is effective, the European Commission will determine whether the U.S. clearinghouse regime is equivalent to the E.U. regime. Notably, because the CFTC clearinghouse final rules have been effective since May 2012, and EMIR is not yet effective, U.S. clearinghouses clearing for E.U. persons are subject to comprehensive post-crisis clearinghouse reforms, whereas E.U. clearinghouses are not. This means that U.S. clearinghouses clearing in the E.U. are at a competitive disadvantage for the time being, *i.e.*, subject to the CFTC rules while the E.U. clearers are more lightly regulated. The Committee encourages the E.U. to implement EMIR and the ESMA standards as quickly as possible so that E.U. clearinghouses are also subject to comprehensive regulation.

The Committee recommends that the European Commission and the CFTC work together to resolve the key differences between the two clearinghouse regimes so that the European Commission is able to recognize U.S. clearinghouses, and *vice versa*. Until such differences are resolved, the Committee suggests that the CFTC should extend the narrow U.S. person definition and that the European Commission should continue to allow U.S. clearinghouses recognized by individual E.U. member states to clear swaps for persons of that E.U. member state. If these differences are not resolved and foreign recognition proves infeasible, then EMIR should be revised to permit U.S. clearinghouses to register and comply with the more stringent requirements of either regime.

Comparison of E.U./U.S. Regulation of Clearinghouses

The ESMA final technical standards and CFTC Final Rule on DCO Core Principles ("CFTC Final Rule") impose materially different minimum standards for clearinghouse margin requirements, including different confidence intervals and liquidation/holding periods. Unlike the U.S. regime, the ESMA final technical standards also impose look-back

<sup>&</sup>lt;sup>7</sup> OTC Regulation, *supra* note 3, at 29-30.

<sup>&</sup>lt;sup>8</sup> ESMA Report at 116; Derivatives Clearing Organization General Provisions and Core Principles, 76 Fed. Reg. 69,334, 69,438-39 (Nov. 8, 2011) [hereinafter Core Principles Regulation].

period requirements, pro-cyclicality buffers, and portfolio margining restrictions. 9 However, unlike the E.U. regime, the CFTC Final Rule requires DCO members to collect greater than 100% of the DCO's initial margin requirement for customers' speculative swaps. 10

The two regimes also differ in clearinghouse membership and minimum financial resource requirements. The CFTC Final Rule does not permit DCOs to impose minimum capital requirements on clearing members over \$50 million while EMIR delegates such authority to the CCP. 11 EMIR requires E.U. CCPs to hold sufficient financial resources to be able to withstand the default of the two clearing members to which it has the largest exposure, while the CFTC Final Rule only requires DCOs to hold sufficient financial resources to withstand the default of the clearing member to which it has the largest financial exposure. 12 Although the CFTC has proposed requiring systemically important DCOs to maintain sufficient financial resources to withstand a default by the two clearing members posing the largest combined financial exposure, 13 the CFTC has not finalized this proposal. 14

According to the CFTC Final Rule, if a U.S. DCO clearing member defaults, the DCO may require non-defaulting clearing members to contribute additional funds. However, the DCO must impose a 30% haircut and a 20% cap on the contributions of non-defaulting clearing members. <sup>15</sup> The E.U. regime does not impose specific haircuts or caps on such contributions.

If an E.U. CCP clearing member defaults, EMIR requires an E.U. CCP to use its own resources before using the default fund contributions of non-defaulting clearing members. <sup>16</sup> According to the ESMA final technical standards, this amount must be at least equal to 25% of the minimum capital that the CCP is required to maintain. <sup>17</sup> Also, EMIR requires each CCP default fund to enable the CCP to withstand the default of the clearing member to which it has the largest exposure or of the second and third largest clearing members, if the sum of their exposures is larger. 18 The U.S. regime does not impose similar restrictions.

The CFTC recently issued a final rule amending the permissible investments for DCOs. DCOs and DCO clearing members may no longer invest in commercial paper, corporate bonds or foreign sovereign debt. 19 Although DCOs and DCO members may apply for an exemption to invest in foreign sovereign debt, the CFTC does not agree that foreign domiciled DCOs and DCO clearing members should necessarily be able to invest in the sovereign debt of their domicile nation.<sup>20</sup> The CFTC also revised its concentration limits on

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<sup>9</sup> ESMA Report at 117-119.
<sup>10</sup> Core Principles Regulation, supra note 8, at 69,439.
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<sup>&</sup>lt;sup>12</sup> OTC Regulation, *supra* note 3, at 38; Dodd-Frank Act, *supra* note 1, § 725(c).

<sup>&</sup>lt;sup>13</sup> Core Principles Regulation, supra note 8, at 69, 352.

<sup>&</sup>lt;sup>15</sup> Core Principles Regulation, *supra* note 8, at 69,435-36.

<sup>&</sup>lt;sup>16</sup> OTC Regulation, *supra* note 3, at 37.

<sup>&</sup>lt;sup>17</sup> ESMA Report at 118.

<sup>&</sup>lt;sup>18</sup> OTC Regulation, *supra* note 3, at 37.

<sup>&</sup>lt;sup>19</sup> Investment of Customer Funds and Funds Held In an Account for Foreign futures and Foreign Options Transactions, 76 Fed. Reg. 78778. <sup>20</sup> *Id*, at 78782.

permissible investments, including specific asset-based restrictions. For example, a DCO or a DCO clearing member may invest up to 100% of its funds in U.S. treasuries but only 50% of its funds in prime money market mutual funds.<sup>21</sup> The CFTC also imposes certain issuerbased restrictions and a 25% counterparty concentration limit.<sup>22</sup>

According to the ESMA final technical standards, a CCP may invest only in debt instruments that are issued or guaranteed by a government or a central bank.<sup>23</sup> EMIR and the ESMA technical standards do not prohibit CCP investment in foreign sovereign debt and do not impose specific concentration limits on CCPs. The ESMA final technical standards delegate authority to CCPs to set concentration limits at the level of individual financial instruments, types of financial instruments, individual issuers, types of issuers, and certain other counterparties.<sup>24</sup>

The ESMA final technical standards require E.U. CCPs to set concentration limits for acceptable collateral. E.U. CCPs must have collateral concentration limits for each issuer, type of issuer, type of asset, and clearing member. <sup>25</sup> The U.S. regime does not impose a similar restriction.

The E.U. and U.S. regimes also differ with regard to clearing member collateral segregation. EMIR requires E.U. CCPs to offer clearing members' customers separate segregation of their margin, which provides customers with more robust rights to recovery.<sup>26</sup> Alternatively, Section 724(a) of the Dodd-Frank Act allows DCOs to allow DCO members to commingle customers' collateral in one account.<sup>27</sup> The CFTC issued a final rule imposing a "legal segregation with operational commingling" requirement. According to the rule, a DCO and a DCO clearing member may not use a customer's collateral to cover a shortfall in another customer's account.<sup>28</sup>

There are several other differences between the two regimes' treatment of clearinghouses. The CFTC requires DCOs to offer real-time clearing services, while the E.U. regime does not.<sup>29</sup> EMIR allows for interoperability arrangements between CCPs, while the CFTC has not addressed interoperability arrangements.<sup>30</sup> The ESMA final technical standards do not permit CCP staff engaged in risk-management, compliance, and internal audit functions to be compensated based on the business performance of the CCP, while the CFTC has not imposed a similar restriction.<sup>31</sup> The ESMA final technical standards also

<sup>&</sup>lt;sup>21</sup> *Id*, at 78780. <sup>22</sup> *Id*, at 78785-78789.

<sup>&</sup>lt;sup>23</sup> ESMA Report at 128, 129.

<sup>&</sup>lt;sup>24</sup> *Id*, at 129, 131.

<sup>&</sup>lt;sup>25</sup> *Id.* at 127.

<sup>&</sup>lt;sup>26</sup> OTC Regulation, *supra* note 3, at 36.

<sup>&</sup>lt;sup>27</sup> Dodd-Frank Act § 724(a).

<sup>&</sup>lt;sup>28</sup> Protection of Cleared Swaps Customer Contracts and Collateral; Conforming Amendments to the Commodity Broker Bankruptcy Provisions, 77 Fed. Reg., at 6339.

<sup>&</sup>lt;sup>29</sup> Customer Clearing Documentation, Timing of Acceptance for Clearing, and Clearing Member Risk Management, 77 Fed. Reg. 21,309 (Apr. 9, 2012).

<sup>&</sup>lt;sup>30</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 40 (EU). <sup>31</sup> ESMA Report at 108.

impose significantly more comprehensive stress testing requirements on CCPs than the U.S. regime imposes on DCOs.  $^{32}$ 

There is also an added element of uncertainty regarding the regulation and supervision of E.U. CCPs and U.S. DCOs. EMIR requires each E.U. member state (each, a "Member State") to designate regulatory authority over a CCP to a competent authority. According to EMIR, each Member State's competent authority is responsible for the supervision of home-country CCPs and each E.U. Member State's competent authority may impose additional requirements on home-country CCPs. Thus, EMIR and the ESMA final technical standards only set forth minimum standards that may be further developed by a Member State's competent authority.

Pursuant to Title VIII of the Dodd-Frank Act, the FSOC recently designated the largest U.S. DCOs as systemically important financial market utilities (e.g., CME, Options Clearing Corporation, ICE, and the DTCC). Such a designation empowers the Federal Reserve Board to supervise and impose additional regulations on these DCOs. It also provides these DCOs with access to Federal Reserve liquidity. Although, certain E.U. CCPs have access to central bank liquidity (e.g., German-based Eurex Clearing AG and LCH.Clearnet's France-based subsidiary LCH.Clearnet SA, are incorporated as banks), neither EMIR nor the ESMA technical standards require CCPs to have access to central bank liquidity.

Title II of the Dodd-Frank Act sets forth the Orderly Liquidation Authority ("OLA"), an alternative to bankruptcy which allows the FDIC to guarantee temporarily the debt of a failing systemically important financial company. Although systemically important financial market utilities are not expressly covered or excluded by Title II, it is possible that if a systemically important FMU were failing, regulators might attempt to subject the DCO to an OLA receivership rather than the standard bankruptcy process. The FDIC did not respond to a letter from the CME requesting that the FDIC clarify that the CME would not be subject to an OLA receivership. The E.U. regime does not include an orderly resolution process for CCPs.

There are also important differences between the two regimes' clearing requirements. For example, the ESMA final technical standards do not require E.U. non-financial

<sup>&</sup>lt;sup>32</sup> *Id.* at 134-35.

<sup>&</sup>lt;sup>33</sup> OTC Regulation, *supra* note 3, at 28.

 $<sup>^{34}</sup>$  Id at 8 28

<sup>&</sup>lt;sup>35</sup> Press Release, U.S. Dep't of the Treasury, Financial Stability Oversight Council Makes First Designations in Effort to Protect Against Future Financial Crises (July 18, 2012), http://www.treasury.gov/press-center/press-releases/Pages/tg1645.aspx.

<sup>&</sup>lt;sup>36</sup> Dodd-Frank Act §§ 804, 805.

<sup>&</sup>lt;sup>37</sup> Int'l Monetary Fund, Global Financial Stability Report: Meeting New Challenges to Stability and Building a Safer System 110 (Apr. 2010).

<sup>&</sup>lt;sup>38</sup> Dodd-Frank Act §§ 201-217.

<sup>&</sup>lt;sup>39</sup> Robert S. Steigerwald, Senior Policy Adviser, Fed. Res. Bank of Chicago, FMU Recovery and Resolution: "Orderly Liquidation" in the Shadow of the Bankruptcy Code 43 (Aug. 22, 2012), available at <a href="http://www.chicagofed.org/webpages/markets/orderly\_liquidation\_bankruptcy.cfm">http://www.chicagofed.org/webpages/markets/orderly\_liquidation\_bankruptcy.cfm</a>

<sup>&</sup>lt;sup>40</sup> Gretchen Morgenson, One Safety Net that Needs to Shrink, NEW YORK TIMES, November 3, 2012

counterparties ("NFCs") to clear any swaps unless they exceed certain €1-3 billion thresholds for speculative swaps. <sup>41</sup> If an E.U. NFC exceeds the threshold for any type of speculative swap, it must clear all swaps, including swaps for hedging purposes. <sup>42</sup> Alternatively, the U.S. regime requires NFCs to clear all speculative swaps but does not require U.S. NFCs to clear swaps for hedging purposes under any circumstances. <sup>43</sup> Furthermore, the U.S. Treasury has exempted FX swaps from the definition of swaps (and thus any of the clearing and margin requirements applicable to swaps) while the ESMA technical standards do not exempt FX swaps from the clearing obligation and require E.U. NFCs to clear speculative FX swaps above a certain threshold. <sup>44</sup>

In light of these numerous differences between the E.U. and U.S. requirements for clearinghouses, it is clear that the CFTC, the European Commission and the ESMA must work together to ensure that recognition of each clearinghouse regime is feasible. Otherwise, the E.U.-U.S. cross-border swaps market may be fragmented, unnecessarily limiting the ability of E.U. and U.S. persons to manage risk.

Respectfully submitted,

R. Glenn Hubbard

Robert Glenn Hubbard

Co-CHAIR

John L. Thornton

Hal S. Scott

<sup>&</sup>lt;sup>41</sup> ESMA Report at 82.

<sup>&</sup>lt;sup>42</sup> *Id.* at 15.

<sup>&</sup>lt;sup>43</sup> Dodd-Frank Act § 723(a).

<sup>&</sup>lt;sup>44</sup> ESMA Report at 82.

## APPENDIX: COMPARISON OF E.U. – U.S. CLEARING HOUSE REGULATIONS

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
Extra-territorial	EMIR:	DFA:	
Application			
	Any swap between a foreign person that	Section 722(d) of Dodd-Frank provides that	
	would be subject to the clearing obligation if	Title VII does not apply to activities outside the	
	it were established in the E.U. and an E.U.	U.S. unless those activities either: (1) have a	
	financial counterparty or a E.U. non-	direct and significant connection with activities	
	financial counterparty, is subject to EMIR's	in, or effect on, commerce of the U.S.; or (2)	
	clearing requirements. 45	contravene such rules or regulations as the	
		CFTC may prescribe or promulgate as are	
		necessary or appropriate to prevent the evasion	
	The Commission has the power to adopt	of any provision of Title VII of the DFA.	
	ESMA draft technical standards, specifying		
	which transactions entered into by entities	[DFA sec 722(d).]	
	established in third countries should be		
	subject to EMIR. Such transactions must	CFTC Proposed Interpretive Guidance:	
	have a direct, substantial and foreseeable	•	
	effect within the Union or must be necessary	The Proposed Guidance divides Title VII's	
	or appropriate to prevent the evasion of any	substantive requirements into entity and	
	provisions of EMIR. 46 ESMA missed the	transaction requirements. Entity requirements	
	Sept. 30 deadline to issue such standards.	relate largely to matters that govern a swap	
	ESMA has notified the Commission that it	dealer ("SD") or a major swaps participant	
	must set a new deadline. <sup>47</sup>	("MSP") and include: capital adequacy, chief	
		compliance officers, risk management, swap	
	EMIR also includes a mechanism to avoid	data recordkeeping, swap data reporting, and	

Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 17 (EU).
 Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 13 (EU).
 Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 6-7 (Sept. 27, 2012).

E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
duplicative or conflicting rules with foreign	physical commodity swaps reporting.	
nations. <sup>48</sup> EMIR provides that the	Transaction requirements relate largely to risk	
Commission may adopt implementing acts	mitigation and market transparency, and	
declaring that the legal supervisory and	include: clearing and swap processing,	
enforcement arrangements of a third	margining and segregation for uncleared swaps,	
country are: (a) equivalent to the	trade execution, swap trading relationship	
requirements laid down under Articles 4	documentation, portfolio reconciliation and	
(clearing obligation), 9 (reporting	compression, real-time public reporting, trade	
obligation), 10 (non-financial	confirmation, daily trading records, and (in	
counterparties) and 11 (risk-mitigation	certain circumstances) external business	
techniques for OTC derivative contracts	conduct standards.	
not cleared by a CCP); (b) ensure		
protection of professional secrecy that is	The Proposed Guidance subjects any swap	
equivalent to that set out in this Regulation;	involving a "U.S. person" to all Title VII	
and (c) are being effectively applied and	transaction requirements, regardless of the	
enforced in an equitable and non-distortive	counterparty and execution location of the	
manner so as to ensure effective super-	transaction.	
vision and enforcement in that third		
country. Such implementing acts shall	The Proposed Guidance requires a foreign	
imply that counterparties entering into a	person to register with the CFTC as an SD or	
transaction subject to EMIR shall be	MSP if its swap dealings with U.S. persons	
deemed to have fulfilled the obligations	exceed the same thresholds applicable to U.S.	
contained in Articles 4, 9, 10 and 11 where	persons. If a foreign person is required to	
at least one of the counterparties is	register as an SD or MSP, it is subject to Title	
established in that third country. <sup>49</sup>	VII's entity requirements. However, foreign	
	SDs or MSPs may qualify for "substituted	
EMIR also includes a mechanism to	compliance" from Title VII's entity	
recognize foreign CCPs, as described	requirements if the CFTC determines that a	
below.	foreign SD's or MSP's home country	
	derivatives regime requirements are comparable	

<sup>48</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 2 (EU). <sup>49</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 17, 20-24 (EU).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
		to Title VII entity requirements.	
		Substituted compliance is not available for	
		transaction requirements.	
		[Cross-Border Application of Certain Swaps	
		Provisions of the Commodity Exchange Act, 77	
		Fed. Reg. 41,214 (July 12, 2012).]	
Foreign	EMIR:	DFA S. 725(b):	
Clearing House			
Recognition	EMIR only permits legal persons	The Commission may exempt, conditionally or	
	established in the E.U. to apply for	unconditionally, a derivatives clearing	
	authorization as a Central Counterparty	organization from registration under this section	
	Clearing House ("CCP"). <sup>50</sup>	for the clearing of swaps if the Commission	
		determines that the derivatives clearing	
	Foreign CCPs may only be recognized by	organization is subject to comparable,	
	the ESMA if the European Commission	comprehensive supervision and regulation by	
	determines that: (1) the legal and	the Securities and Exchange Commission or the	
	supervisory arrangements of a third	appropriate government authorities in the home	
	country ensure that CCPs authorized in that	_	
	third country comply with legally binding	may include, but are not limited to, requiring	
	requirements which are equivalent to	that the derivatives clearing organization be	
	EMIR, that those CCPs are subject to	available for inspection by the Commission and	
	effective supervision and enforcement in	make available all information requested by the	
	that third country on an ongoing basis and	Commission.	
	that the legal framework of that third	[DEA 725(1)]	
	country provides for an effective	[DFA sec. 725(b).]	
	equivalent system for the recognition of		
	CCPs authorized under third-country legal		
	regimes; (2) that the CCP is authorized and		

<sup>&</sup>lt;sup>50</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 17, 25 (EU).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	subject to effective supervision in that third		
	country; (3) that ESMA has established		
	cooperation arrangements with the third-		
	country competent authorities; and (4) the		
	CCP is established or authorized in a third		
	country that is considered as having		
	equivalent systems for anti-money-		
	laundering and combating the financing of		
	terrorism to those of the Union in		
	accordance with the criteria set out in the		
	common understanding between Member		
	States. <sup>51</sup>		
	ESMA Final Technical Standards:		
	The ESMA clarified that it is not required		
	to recognize foreign CCPs that meet the		
	above conditions because other conditions		
	may prevent fulfillment of the overall		
	outcome of ensuring no market disruption,		
	no competitive advantage and adequate		
	investor protection. <sup>52</sup>		
Non-Financial	ESMA Final Technical Standards:	DFA:	
Counterparties	Estra Final Technical Standards.	<i>D</i> 111.	
(NFC)	An E.U. NFC is not required to clear <b>any</b>	NFCs are not required to clear swaps for	
(111 C)	swaps, unless the NFC exceeds one of five	hedging purposes. NFCs must clear all swaps	
	thresholds for speculative swaps. The	for speculative purposes.	
	thresholds depend on the asset-class and	Tor speculative purposes.	
	are set between EUR 1bn and 3bn. The	[DFA sec. 723(a).]	
	are bet between East foll and Joh. The	[DIA SCC. 143(a).]	

<sup>&</sup>lt;sup>51</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 29 (EU). <sup>52</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 30 (Sept. 27, 2012).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	clearing thresholds are: (a) EUR 1 billion		
	in gross notional value for OTC credit		
	derivative contracts; (b) EUR 1 billion in		
	gross notional value for OTC equity		
	derivative contracts; (c) EUR 3 billion in		
	gross notional value for OTC interest rate		
	derivative contracts; (d) EUR 3 billion in		
	gross notional value for OTC foreign		
	exchange derivative contracts; and (e) EUR		
	3 billion in gross notional value for OTC		
	commodity derivative contracts and other		
	OTC derivative contracts not defined under		
	points (a) to (d). <sup>53</sup>		
	If a E.U. NFC exceeds the speculative		
	swap threshold for one class of swap, it		
	must clear <b>all</b> swaps (for hedging or speculative purposes). <sup>54</sup>		
FX Swaps	EMIR:	DFA:	Note:
	Based on criteria set forth by the <b>ESMA</b>	Treasury has authority to exempt FX swaps	According to ESMA
	final technical standards, the European	from definition of a swap. Thus, FX swaps	chair the greatest risk
	Commission will determine the types of	would not be subject to clearing requirements	of regulatory arbitrage
	swaps that must be cleared. According to	or any margin requirements applicable to	is for bi-lateral FX
	EMIR, "The predominant risk for	bilaterally cleared swaps.	swaps. The Treasury
	transactions in some classes of OTC		exemption would not
	derivative contracts may relate to	[DFA sec. 722(h).]	require margin to be
	settlement risk, which is addressed through		held against bi-lateral

<sup>&</sup>lt;sup>53</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 82 (Sept. 27, 2012).
<sup>54</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 18 (Sept. 27, 2012).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	separate infrastructure arrangements, and	Treasury Final Rule:	FX swaps. The ESMA
	may distinguish certain classes of OTC		chair has stated that
	derivative contracts (such as foreign	Treasury issued a proposed rule to exempt FX	margin requirements
	exchange) from other classes. CCP	swaps from the definition of swap in April	will definitely apply to
	clearing specifically addresses counterparty	2011.	bi-lateral FX swaps in
	credit risk, and may not be the optimal		the EU.
	solution for dealing with settlement risk.	Treasury is expected to finalize the rule as	
	The regime for such contracts should rely,	proposed by the end of 2012. [Emmanuel	(See FX Week,
	in particular, on preliminary international	Olaoye, U.S. Treasury to Move by Year End on	"Greatest risk of
	convergence and mutual recognition of the	Plan to Exempt Forex Swaps, Sources Say,	regulatory arbitrage is
	relevant infrastructure."55	REUTERS, Oct. 24, 2012.]	for non-cleared FX,
		_	says ESMA's Chair"
	ESMA Final Technical Standards:		Feb 8, 2012)
	Did not include an exemption for FX		Basel-IOSCO working
	swaps or set forth any special treatment for		group on margin
	FX swaps in its clearing obligation criteria.		requirements is
	The ESMA final technical standards		expected to set forth a
	require an NFC trading in speculative FX		recommendation for
	swaps to clear all swaps if it exceeds the		FX swaps.
	specified Euro threshold. <sup>56</sup>		1
CCP Regulator	EMIR:	DFA:	
	CCPs will be authorized and supervised by	The CFTC regulates DCOs that clear swaps. The	
	the competent authority of the Member	SEC regulates clearing agencies that clear	
	State where the CCP is established	security-based swaps. In the case of a clearing	
	(Member State may designate more than	house that clears swaps and security-based	
	one competent authority). <b>Importantly</b> , a	swaps, the DFA directs the SEC and CFTC to	
	Member State competent authority may	determine which agency is the "Supervisory	

<sup>&</sup>lt;sup>55</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 25-26 (EU).
<sup>56</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 82 (Sept. 27, 2012).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	impose additional restrictions on its	Agency"; if the agencies are unable to agree, the	
	<b>CCPs.</b> The competent authority will	FSOC has the authority to make the	
	consult with a CCP-specific "college"	determination. The "Supervisory Agency" shall	
	organized to assist in the regulation of a	be the lead regulator of the clearing house.	
	CCP. (Each CCP college shall consist of		
	ESMA, CCP competent authority, competent authorities responsible for the	[DFA sec. 802.]	
	supervision of the clearing members of the	The FSOC may designate a clearing house as	
	CCP that are established in the three	systemically important. If FSOC makes such a	
	Member States with the largest	determination, the Fed may impose additional	
	contributions to the default fund of the	requirements on systemically important clearing	
	CCP, the competent authorities responsible	houses.	
	for the supervision of trading venues		
	served by the CCP, the central banks of	[DFA sec. 804.]	
	issue of the most relevant E.U. currencies		
	of the financial instruments cleared.) <sup>57</sup>		
CCP Margin	ESMA Technical Standards:	CFTC Final Rule DCO Core Principles:	Note:
Requirements			x 4 577 H
	All cleared OTC derivatives (i.e., not	All cleared swaps shall have a minimum 99%	In the EU, all swaps
	listed/traded on an exchange) must have a	confidence interval with a minimum	that have the same
	minimum confidence interval of 99.5%	liquidation/holding period of 5 days.	characteristics of listed
	with a minimum liquidation/holding period		products may have a
	of 5 days. <sup>58</sup>	[Derivatives Clearing Organization General	minimum
		Provisions and Core Principles, 76 Fed. Reg.	liquidation/holding
	However, if a CCP proves to the	69,334, 69,438 (Nov. 8, 2011).]	period of 2 days while
	competent authority that the OTC	Hawayar swans on agricultural commodities	in the U.S., only swaps
	contracts cleared have the same risk	However, swaps on agricultural commodities,	on agricultural
	characteristics of listed products and if	energy commodities and metals may have a	commodities, energy
	risks are properly mitigated, a lower	minimum liquidation/holding period of 1 day.	commodities and

<sup>&</sup>lt;sup>57</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 25-27 (EU).
<sup>58</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 116-17 (Sept. 27, 2012).

E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
confidence interval than 99.5% and a liquidation period of 2 days can be adopted. <sup>59</sup> For all financial instruments other than OTC swaps (this includes exchange listed swaps) a minimum 99% confidence interval may be used with a minimum liquidation period of 2 days. <sup>60</sup>	[Derivatives Clearing Organization General Provisions and Core Principles, 76 Fed. Reg. 69,334, 69,438 (Nov. 8, 2011).]  All other financial instruments shall have a minimum confidence interval of 99% with a minimum liquidation/holding period of 1 day.  [Derivatives Clearing Organization General Provisions and Core Principles, 76 Fed. Reg.	metals are permitted to have a lower liquidation/holding period than 5 days.
EU-only requirements: ESMA Technical Standards:  1. Look-back period has to include at least the past 12 months and must include a full	69,334, 69,438 (Nov. 8, 2011).]  U.Sonly requirements: CFTC DCO Core Principles Final Rule:  A DCO shall require its clearing members to collect customer initial margin, from their	
range of market conditions, including period of market stress. Note: Setting a specific time horizon for the calculation of historic volatility is a major departure from CCP best practice and rejected during the development of CPSS-IOSCO Principles for FMIs. <sup>61</sup>	customers, for non-hedge positions, at a level that is greater than 100 percent of the DCO's initial margin requirements with respect to each product and swap portfolio. DCOs must collect margin on a gross basis for each clearing member's customer account(s). (Clearinghouses currently calculate margin requirements on a net basis and lack sufficient information about individual customer positions to calculate	

<sup>&</sup>lt;sup>59</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 38, 118 (Sept. 27, 2012).
<sup>60</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 116-18 (Sept. 27, 2012).

<sup>&</sup>lt;sup>61</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 117 (Sept. 27, 2012).

E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
2. CCPs must account for potential procyclicality of margin requirements. A CCP shall do so by either: implementing a buffer of 25% to minimum margin requirements; assigning a weight of at least 25% to the stress observations considered in the calculated look-back period; or ensuring that the margins are no lower than those calculated considering a 10 year look-back period. All period. All period argining restriction: Where portfolio margining covers multiple instruments, the amount of margin reductions shall be no greater than 80% of the difference between the sum of the margins for each product calculated on an individual basis and the margin calculated based on a combined estimation of the exposure for the combined portfolio. Where the CCP is not exposed to any potential risk from the margin reduction, it may apply a reduction of up to 100% of this difference. ESMA Final Technical Standards discussion portion:	margin at the level of each individual customer; clearinghouses are working towards creating an industry-wide mechanism.)  [Derivatives Clearing Organization General Provisions and Core Principles, 76 Fed. Reg. 69,334, 69,438 (Nov. 8, 2011).]	

 <sup>&</sup>lt;sup>62</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 118-119 (Sept. 27, 2012).
 <sup>63</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 117-18 (Sept. 27, 2012).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	Portfolio Margining: "ESMA considers		
	that introducing a haircut on offsets is		
	appropriate where such offsset is		
	determined by model calculations or it		
	relies on assumptions about future		
	correlations, as such offsets introduce extra		
	risks to the CCPs and these need to be		
	adequately mitigated." <sup>64</sup>		
	<b>Note:</b> Setting a specific time horizon for		
	the calculation of historic volatility is a		
	major departure from CCP best practice		
	and rejected during the development of		
	CPSS IOSCO Principles for FMIs.		
Real-time	EMIR and ESMA technical standards:	<b>CFTC DCO Core Principles Final Rule:</b>	
Clearing			
	Do not require that a CCP "accept or reject	"Each derivatives clearing organization shall	
	for clearing as quickly after submission to	coordinate with each clearing member that is a	
	the derivatives clearing organization as	futures commission merchant, swap dealer, or	
	would be technologically practicable if	major swap participant to establish systems that	
	fully automated systems were used."	enable the clearing member, or the derivatives	
		clearing organization acting on its behalf, to	
	While ESMA agrees with a real-time	accept or reject each trade submitted to the	
	clearing approach, ESMA does not have an	derivatives clearing organization for clearing by	
	authorizing provision for requiring fully	or for the clearing member or a customer of the	
	automated systems. Thus, market	clearing member as quickly as would be	
	participants in the E.U. are not required to	technologically practicable if fully automated	
	develop such systems. <sup>65</sup>	systems were used."	

 <sup>&</sup>lt;sup>64</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 40 (Sept. 27, 2012).
 <sup>65</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 21-22 (Sept. 27, 2012).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
		Customer Clearing Documentation, Timing of Acceptance for Clearing, and Clearing Member Risk Management, 77 Fed. Reg. 21,278, 21, 309 (Apr. 9, 2012).	
CCP	EMIR:	CFTC DCO Core Principles Final Rule:	
Membership			
Minimum	Delegates authority for determining	Prevents DCOs from requiring clearing	
Requirements	clearinghouse membership criteria to the CCP. 66	members to hold more than \$50 million in capital.	
	"Such criteria shall be non-discriminatory,	Derivatives Clearing Organization General	
	provide fair and open access to the CCP	Provisions and Core Principles, 76 Fed. Reg.	
	and ensure that clearing members have	69,334, 69,437 (Nov. 8, 2011).	
	sufficient financial resources and		
	operational capacity to meet the obligations	However, the Final Rule also requires clearing	
	arising from participation in a CCP.	members to have access to sufficient financial	
	Criteria that restrict access shall be	resources to meet obligations arising from	
	permitted only to the extent that their	participation in the derivatives clearing	
	objective is to control risk for the CCP." <sup>67</sup>	organization in extreme but plausible market conditions.	
	A CCP may impose specific additional	Conditions.	
	obligations on clearing members, such as	Derivatives Clearing Organization General	
	the participation in auctions of a defaulting	Provisions and Core Principles, 76 Fed. Reg.	
	clearing member's position. Such	69,334, 69,437 (Nov. 8, 2011).]	
	additional obligations shall be proportional	, , , , , , , , , , , , , , , , , , ,	
	to the risk brought by the clearing member	(Thus, it is likely clearing members with low	
	and shall not restrict participation to certain	levels of capital will only be able to participate	
	categories of clearing members. <sup>68</sup>	in a clearing house to a limited extent.)	

<sup>&</sup>lt;sup>66</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 35 (EU). <sup>67</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 35 (EU). <sup>68</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 35 (EU).

E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	Also, a DCO shall not require that clearing members maintain a swap portfolio of any particular size, or that clearing members meet a swap transaction volume threshold. A DCO shall not adopt restrictive clearing member standards if less restrictive requirements that achieve the same objective and that would not materially increase risk to the derivatives clearing organization or clearing members could be adopted.	
	[Derivatives Clearing Organization General Provisions and Core Principles, 76 Fed. Reg. 69,334, 69,436 (Nov. 8, 2011).]  CFTC Final Rule discussion portion:	
	"The Commission does not believe that the rule will increase risk. Section 39.12(a)(2)(ii) requires DCOs to impose capital requirements that are scalable to the risks posed by clearing members. Accordingly, a small clearing member should not be able to expose a DCO to significant risk even if it is able to clear at multiple DCOs because its exposure at each	
	DCO would be limited. DCOs that participate in the Shared Market Information System (SHAMIS) will be able to see a clearing member's pays and collects across participating DCOs, and a DCO also could on its own initiative require clearing members to directly report their clearing activity at other DCOs. The	

E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	Commission also will be able to monitor	
	clearing member exposure by means of DCO	
	end-of-day reporting under the reporting	
	requirements of § 39.19(c)(1)(i), which the	
	Commission is adopting herein. It will also be	
	able to monitor the financial strength of	
	clearing members that are registrants pursuant	
	to financial reporting requirements.	
	The Commission does not believe that the \$50	
	million threshold would lead to a DCO having	
	to admit clearing members that are unable to	
	participate in the default management process.	
	As discussed above, the regulation does not	
	preclude highly-capitalized entities (such as	
	swap dealers) from participating in a DCO as	
	clearing members. Thus, the addition of smaller	
	clearing members does not eliminate the role	
	that larger clearing members can play in default	
	management—it merely spreads the risk.	
	The Commission wishes to emphasize that it	
	will review DCO membership rules as a	
	package in light of all of the provisions of §	
	39.12(a). Thus, a DCO may not circumvent §	
	39.12(a)(2)(iii) by enacting some additional	
	financial requirement that effectively renders	
	the \$50 million threshold meaningless for some	
	potential clearing members."	
	[Derivatives Clearing Organization General	
	Provisions and Core Principles, 76 Fed. Reg.	
	69,334, 69,356 (Nov. 8, 2011).]	

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
CCP Minimum	EMIR:	DFA:	
Financial			
Resources/	CCPs must have minimum capital of at	Each DCO must have adequate financial	
Minimum	least EUR 7.5 million. A CCP's capital,	resources to enable the organization to meet its	
Capital	including retained earnings and reserves,	financial obligations to its members and	
Requirement	shall be proportionate to the risk stemming	participants notwithstanding a default by the	
	from the activities of the CCP. A CCP shall	member or participant creating the largest	
	maintain sufficient pre-funded available	financial exposure for that organization in	
	financial resources to cover potential losses	extreme but plausible market conditions; and	
	that exceed the losses to be covered by	enable the derivatives clearing organization to	
	margin requirements and the default fund.	cover the operating costs of the derivatives	
	Such pre-funded financial resources shall	clearing organization for a period of 1 year (as	
	include dedicated resources of the CCP,	calculated on a rolling basis).	
	shall be freely available to the CCP and	[DEA 705()]	
	shall not be used to meet the minimum	[DFA sec. 725(c).]	
	capital requirement. The default fund and	CETC DCO C D	
	pre-funded financial resources shall at	CFTC DCO Core Principles Final Rule:	
	all times enable the CCP to withstand	No minimum DCO conital requirement CETC	
	the default of at least the two clearing	No minimum DCO capital requirement. CFTC	
	members to which it has the largest	requires that a DCO have adequate financial,	
	exposures under extreme but plausible	operational, and managerial resources, as	
	market conditions. A CCP may require	determined by CFTC, to discharge its	
	non-defaulting clearing members to	responsibilities. Those financial resources shall, at a minimum, exceed the total amount	
	provide additional funds in the event of a	that would (39.11(a)(1) enable the DCO to	
	default of another clearing member. The		
	clearing members of a CCP shall have	meet its obligations despite a default by a member creating the largest financial	
	limited exposures toward the CCP.69		
		exposure in extreme, but plausible, market conditions and (39.11(a)(2)) enable the DCO	
		to cover its operating costs for a 1-year	
		period. DCOs may require non-defaulting	
		periou. Dees may require non-defaulting	

<sup>&</sup>lt;sup>69</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 38 (EU).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
		clearing members to contribute in the event of a	
		default of another clearing member. If a DCO	
		imposes additional guarantee fund (default	
		fund) contributions from members to meet its	
		39.11(a)(1) requirement, it shall: <b>apply a 30</b>	
		percent haircut to the value of potential	
		assessments, only count the value of	
		assessments, after the haircut, to meet up to	
		20 percent of its 39.11(a)(1) obligations. (EU:	
		Doesn't include a similar haircut/cap.)	
		[Derivatives Clearing Organization General	
		Provisions and Core Principles, 76 Fed. Reg.	
		69,334, 69,435 (Nov. 8, 2011).]	
Default Fund	EMIR:	CFTC Final Rule DCO Core Principles:	
	The <b>default fund</b> shall at least enable the CCP to withstand, under extreme but plausible market conditions, the default of the clearing member to which it has the largest exposures or of the second and third largest clearing members, if the sum of their exposures is larger. <sup>70</sup>	"A derivatives clearing organization shall adopt rules and procedures designed to allow for the efficient, fair, and safe management of events during which clearing members become insolvent or default on the obligations of such clearing members to the derivatives clearing organization."	
	ESMA Technical Standards:  "Extreme but plausible market conditions"	[Derivatives Clearing Organization General Provisions and Core Principles, 76 Fed. Reg. 69,334, 69,442 (Nov. 8, 2011).]	
	shall include a range of historical		
	scenarios, including periods of extreme		
	market movements observed over the past		

<sup>&</sup>lt;sup>70</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 37 (EU).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	30 years, or as long as reliable data have		
	been available, that would have exposed		
	the CCP to greatest financial risk. <sup>71</sup>		
Default	E.Uonly requirements: EMIR:	Nothing similar.	
Waterfall			
	"A CCP shall use dedicated own resources		
	before using the default fund contributions		
	of non-defaulting clearing members." <sup>72</sup>		
	ESMA Technical Standards:		
	A CCP shall keep, and indicate separately		
	in its balance sheet, an amount of dedicated		
	own resources for the purpose set out in		
	Article 45(4) of Regulation (EU) No		
	648/2012. This amount shall be at least		
	equal to the 25% of the minimum capital,		
	including retained earnings and reserves,		
	held in accordance with Article 16 of		
	EMIR. <sup>73</sup>		
	<b>Note:</b> Article 16(2) requires a CCP to		
	maintain capital proportional to its risk. So,		
	25% of 16(2) for a large CCP is likely a		
	very substantial contribution to the default		
	waterfall.		

<sup>&</sup>lt;sup>71</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 119 (Sept. 27, 2012).
<sup>72</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 38 (EU).

<sup>&</sup>lt;sup>73</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 123 (Sept. 27, 2012).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
Ownership	EMIR:	DFA:	
Restrictions			
	Competent authority may reject any	In order to mitigate conflicts of interest, the	
	transfer of ownership that would result in	CFTC shall adopt rules, which may include	
	an entity owning over 10% of the CCP.	<b>numerical limits on the control of</b> , or the	
	Contrary to the proposed U.S. rule,	voting rights with respect to, any DCO.	
	member states <b>may not</b> impose prior		
	conditions in respect of the level of	[DFA sec. 726(a).]	
	holdings that shall be required. <sup>74</sup>		
		CFTC Proposed rule October 2010/not	
		finalized in recent DCO Core Principles	
		rulemaking (CFTC has reserved the right to	
		finalize at a later date):	
		A CCP must comply with one of two alternative	
		limits: (1) No member may own more than 20%	
		of the voting equity, and specified financial	
		entities (whether or not members) may not own	
		more than 40% of the voting equity in the	
		aggregate; or (2) No specified financial entity	
		(whether or not a member) may own more than	
		5% of the voting equity.	
		[Requirements for Derivatives Clearing	
		Organizations, Designated Contract Markets,	
		and Swap Execution Facilities Regarding the	
		Mitigation of Conflicts of Interest, 75 Fed. Reg.	
		63,732 (Oct. 18, 2010).]	
Limits on	<b>EU-only: ESMA Final Technical</b>	The CFTC has proposed rules that would	
Remuneration	Standards:	require the compensation of Public Directors	
		and other non-executive members of the DCO's	

<sup>&</sup>lt;sup>74</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 32-33 (EU).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	The remuneration policy shall be designed	board not to be linked to the performance of the	
	to align the level and structure of	DCO. CFTC Proposed Regulation 40.9(b)(4).	
	remuneration with prudent risk		
	management. The remuneration policy		
	shall provide that staff engaged in risk		
	management, compliance and internal audit		
	functions are remunerated in a manner that		
	is independent of the business performance		
	of the CCP. <sup>75</sup>		
Permissible	<b>ESMA Final Technical Standards:</b>	CFTC Final Rule DCO Core Principles:	
CCP			
Investments	A CCP may only invest in a debt	Funds and assets belonging to clearing	
	instrument which has been issued or	members and their customers that are invested	
	explicitly guaranteed by: a government; a	by a DCO shall be held in instruments with	
	central bank; a multilateral development	minimal credit, market, and liquidity risks.	
	bank; or the European Financial Stability		
	Facility or the European Stability	[Derivatives Clearing Organization General	
	Mechanism. <sup>76</sup> The average time to maturity	Provisions and Core Principles, 76 Fed. Reg.	
	of a CCP's investment portfolio may not	69,334, 69,442 (Nov. 8, 2011).]	
	exceed two years. Investments must have		
	"an active outright sale or repurchase	CFTC Final Rule Investment of Customer	
	agreement market, with a diverse group of	Funds:	
	buyers and sellers, including in stressed		
	conditions and to which the CCP has	A DCO or DCO clearing member may only	
	reliable access" and reliable price data on	invest in: U.S. government securities, municipal	

Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 107-08 (Sept. 27, 2012).
 Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 128-129 (Sept. 27, 2012).

E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
these instruments must be published on a	securities, U.S. agency obligations, certificates	
regular basis. <sup>77</sup> <b>A CCP must determine</b>	of deposit, and interests in money market	
concentration limits at the level of:	mutual funds	
individual financial instruments; types		
of financial instruments; individual	Asset-based concentration limits for direct	
issuers; types of issuers; and certain	investments. Investments in U.S. government	
other counterparties. The average time	securities shall not be subject to a concentration	
to maturity of the CCP's portfolio shall	limit. Investments in U.S. agency obligations	
not exceed two years. <sup>78</sup>	may not exceed 50 percent of the total assets.	
,	Investments in certificates of deposit may not	
ESMA Final Technical Standards	exceed 25 percent of the total assets.	
discussion portion:	Investments in municipal securities may not	
_	exceed 10 percent of the total assets.	
"It was argued that the majority of debt	Investments in money market mutual funds	
instruments issued by eligible	comprising only U.S. government securities	
institutions are for terms greater than	shall not be subject to a concentration limit.	
two years In response to the feedback	Investments in prime money market mutual	
received, ESMA notes that the draft	funds may not exceed 50 percent of the total	
RTS prescribes an average time to	assets. Investments in money market mutual	
maturity and not an absolute time to	funds comprising less than \$1 billion in assets	
maturity. It is therefore possible for a	and/or which have a management company	
CCP to invest in individual debt	comprising less than \$25 billion in assets, may	
instruments with a time to maturity of	not exceed 10 percent of the total assets.	
greater than two years." <sup>79</sup>	•	
•	Issuer-based concentration limits for direct	
<b>Note:</b> The ESMA final technical standards	investments. Securities of any single issuer of	

Fur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 128-29 (Sept. 27, 2012).
 Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 131 (Sept. 27, 2012).
 Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 49 (Sept. 27, 2012).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	do not include a concentration limit	U.S. agency obligations may not exceed 25	
	exemption for investments in sovereign	percent of total assets. Securities of any single	
	bonds.	issuer of municipal securities, or certificates of	
		deposit, may not exceed 5 percent of total	
		assets. Interests in any single family of prime	
		money market mutual fund may not exceed 25	
		percent of total assets. Interests in any	
		individual prime money market mutual fund	
		may not exceed 10 percent of total assets.	
		Counterparty concentration limits. Securities	
		purchased by a DCO clearing member or DCO	
		from a single counterparty, subject to an	
		agreement to resell to that counterparty, shall	
		not exceed 25 percent of total assets.	
		<i>Time-to-maturity</i> . Except for investments in	
		money market mutual funds, the dollar-	
		weighted average of the time-to-maturity of the	
		portfolio may not exceed 24 months.	
		[Investment of Customer Funds 76 Fed. Reg.	
		78798-78800 (December 19, 2011)]	
Acceptable Collateral	EMIR:	<b>CFTC Final Rule DCO Core Principles:</b>	
Condicion	A CCP shall accept highly liquid collateral	A DCO shall limit the assets it accepts as initial	
	with minimal credit and market risk to	margin to those that have minimal credit,	
	cover its initial and ongoing exposure to its	market, and liquidity risks. A DCO may accept	
	clearing members. A CCP may accept bank	letters of credit as initial margin for futures and	
	guarantees as collateral from non-financial	options on futures but shall not accept letters of	
	counterparties. It shall apply adequate	credit as initial margin for swaps. A DCO shall	
	haircuts to asset values that reflect the	apply appropriate reductions in value to reflect	
	potential for their value to decline over the	credit, market, and liquidity risks (haircuts), to	

E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
interval between their last revaluation and	the assets that it accepts in satisfaction of initial	
the time by which they can reasonably be	margin obligations, taking into consideration	
assumed to be liquidated. <sup>80</sup>	stressed market conditions. A DCO shall apply	
	appropriate limitations or charges on the	
ESMA Technical Standards:	concentration of assets posted as initial margin.	
	[Derivatives Clearing Organization General	
A CCP must have concentration limits	Provisions and Core Principles, 76 Fed. Reg.	
for each issuer; type of issuer, type of	69,334, 69,439 (Nov. 8, 2011).]	
asset, and each clearing member. A CCP	, , , , , , , , , , , , , , , , , , , ,	
shall ensure that no more than 10% of		
its collateral is guaranteed by a single		
credit institution.81		
<b>ESMA Final Technical Standards</b>		
discussion portion:		
-		
It is necessary to avoid concentration at		
each clearing member so as to: 1) avoid		
that CCPs end up with only one type of		
collateral to be liquidated following a CM		
default, which would then expose the CCP		
to concentration risk when the collateral		
needs to be used; 2) ensure a level playing		
field among CMs. 82		
"As for the sovereign bonds, concentration		
risk may come from them as well, so it		

Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 38-39 (EU).

81 Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 123, 127-28 (Sept. 27, 2012).

<sup>&</sup>lt;sup>82</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 47 (Sept. 27, 2012).

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	would not be appropriate to introduce		
	exceptions for such a case."83		
Collateral	EMIR:	DFA:	
Segregation		Allows a DCO clearing member to commingle	
Requirements	Requires a CCP to maintain detailed	all of its client collateral in one account and	
	records that allow for the immediate	deposit it with a DCO.	
	distinction of assets and positions held by		
	any individual clearing member. Further, a	[DFA sec. 724(a)]	
	CCP must offer clearing members		
	segregation services that: (1) readily	CFTC DCO Core Principles Final Rule:	
	distinguish clearing member proprietary	In order to commingle funds, a DCO must file	
	assets from the assets of its clients in the	for CFTC approval, which would require a	
	aggregate (defined as "omnibus client	specific set of information to be provided	
	segregation"); and (2) distinguish each	regarding liquidity, risk characteristics, and a	
	individual clearing member clients assets	description of management procedure, among	
	as separate from any other clients of the	other criteria. This account must at all times	
	same clearing member (defined as	remain separate from that of the DCO, but there	
	"individual client segregation"). According	is no requirement for the availability of quick	
	to EMIR, clearing members must offer its	and clear distinction between customer assets in	
	clients the choice between omnibus and	the commingled fund.	
	individual segregation, with a precise	[Derivatives Clearing Organization General	
	definition of the fees and legal implications	Provisions and Core Principles, 76 Fed. Reg.	
	associated with each choice. Individual	69,334, 69,441 (Nov. 8, 2011).]	
	segregation allows for the clear and		
	separate treatment of the client's margin	CFTC Final Rule Protection of Cleared Swaps	
	along with more robust rights to recovery. <sup>84</sup>	Customer Contracts and Collateral	
		The CFTC adopted the "legally separated with	

Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 47 (Sept. 27, 2012).
 Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 36 (EU).

E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	operational commingling" (LSOC) model	
	Under the LSOC Model, each DCO clearing	
	member and DCO would enter (or	
	"segregate"), in its books and records, the	
	cleared swaps of each individual customer and	
	relevant collateral. Each DCO clearing member	
	and DCO would ensure that such entries are	
	separate from entries indicating (i) DCO	
	clearing member or DCO obligations, or (ii) the	
	obligations of non-cleared swaps customers.	
	Operationally, however, each DCO clearing	
	member and DCO would be permitted to hold	
	(or "commingle") the relevant collateral in one	
	account. Each DCO clearing member and DCO	
	would ensure that such account is separate from	
	any account holding DCO clearing member or	
	DCO property or holding property belonging to	
	non-cleared swaps customers.	
	The DCO clearing member would ensure that	
	the DCO does not use the collateral of one	
	cleared swaps customer to support the	
	obligations of another customer by making	
	certain that the value of the cleared swaps	
	customer collateral that the DCO holds equals	
	or exceeds the value of all cleared swaps	
	customer collateral that it has received to secure	
	the contracts of the DCO clearing member's	
	customers. Following a double default, the	
	DCO would be permitted to access the	
	collateral of the defaulting cleared swaps	
	customers, but not the collateral of the non-	

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
		defaulting cleared swaps customers.	
		[Protection of Cleared Swaps Customer	
		Contracts and Collateral, 77 Fed. Reg. 6339	
		(February 7, 2012)]	
Stress Testing	ESMA Final Technical Standards:	CFTC Final Rule DCO Core Principles:	
		_	
	On a daily basis, CCPs must stress test and	On a daily basis, DCOs must conduct stress	
	back test margin coverage, default fund	tests with respect to each large trader who poses	
	contributions and financial resources	significant risk to a clearing member or the	
	coverage. A CCP*s stress-testing	DCO. On a daily basis, DCOs must backtest	
	programme shall ensure that its	products or portfolios that are experiencing	
	combination of (1) margin, (2) default fund	significant market volatility. On at least a	
	contributions and (3) other financial	monthly basis, a DCO shall conduct back tests	
	resources are sufficient to cover the default	to assess the adequacy of all of its initial margin	
	of at least the two clearing members to	requirements. On at least a weekly basis, a	
	which it has the largest exposures under	DCO shall conduct stress tests with respect to	
	extreme but plausible market conditions. A	each clearing member account, by house origin	
	CCP's stress-testing programme shall	and by each customer origin. A DCO must	
	ensure that its (1) margins and (2) default	conduct stress tests on a monthly basis to make	
	fund are sufficient to cover at least the	a reasonable calculation of the financial	
	default of the clearing member to which it	resources it needs to meet the its financial	
	has the largest exposures or of the second	obligations to its clearing members	
	and third largest clearing members, if the	notwithstanding a default by the clearing	
	sum of their exposures is larger. A CCP	member creating the largest financial exposure	
	1	for the DCO in extreme but plausible market	
	shall also stress test the position of clearinghouse members.	conditions. No reverse stress test	
	1	requirement. No sensitivity analysis	
	On a daily basis, A CCP will also stress	requirement.	
	test the liquidity of its financial resources.	- Man chick	

	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
	At least quarterly, a CCP shall conduct		
	reverse stress tests, which are designed to	[Derivatives Clearing Organization General	
	identify under which market conditions the	Provisions and Core Principles, 76 Fed. Reg.	
	combination of its margin, default fund and	69,334, 69,348 (Nov. 8, 2011).]	
	other financial resources may provide	, , , , , , , , , , , , , , , , , , ,	
	insufficient coverage of credit exposures		
	and for which its liquid financial resources		
	may be insufficient. Sensitivity analysis		
	shall be conducted at least monthly. 85		
Interoperability	EMIR:	DFA and CFTC have not addressed	
Arrangements		interoperability arrangements.	
	Allows for interoperability arrangements		
	between CCPs. EMIR sets forth risk		
	management standards and margin		
	requirements for interoperability		
	arrangements. EMIR requires ESMA to		
	publish by Dec. 31, 2012 guidelines on		
	interoperability. EMIR restricts the scope		
	of interoperability arrangements to		
	transferable securities and money-market		
	instruments. However, by Sept. 30, 2014,		
	ESMA should submit a report to the		
	Commission on whether an extension of		
	that scope to other financial instruments		
	would be appropriate. 86		
Central Bank	Neither EMIR nor the ESMA technical	Pursuant to authority granted by Title VIII of	
Access and	standards require clearing houses to have	the DFA, the FSOC has designated 8 U.S.	
Orderly	access to central bank liquidity.	clearinghouses, including CME, Options	
Liquidation	However, certain European CCPs (e.g.,	Clearing Corporation, ICE and the DTCC, as	

<sup>&</sup>lt;sup>85</sup> Eur. Sec. & Mkts. Auth., Final Report: Draft technical standards under the Regulation (EU) No 648/2012 of the European Parliament and of the Council of 4 July 2012 on OTC Derivatives, CCPs and Trade Repositories 133 (Sept. 27, 2012).

<sup>86</sup> Council & Parliament Regulation 648/2012, OTC Derivatives, Central Counterparties and Trade Repositories, 2012 O.J. (L201) 40 (EU).

_	E.U. EMIR/ ESMA Technical Standards	U.S. DFA/CFTC Rules	Comments
Process	German-based Eurex Clearing AG and	systemically important financial market	
	France-based LCH.Clearnet SA) already	utilities.	
	have access to central bank funds – but this	[Press Release, U.S. Dep't of the Treasury,	
	is only by virtue of the fact that they are	Financial Stability Oversight Council Makes	
	licensed as banks. Also, some European	First Designations in Effort to Protect Against	
	central banks (for example, the Sveriges	Future Financial Crises (July 18, 2012),	
	Riksbank and the Swiss National Bank)	http://www.treasury.gov/press-center/press-	
	offer intraday liquidity to regulated	releases/Pages/tg1645.aspx.]	
	nonbank financial institutions, including	Such a designation empowers the Federal	
	investment firms, clearing houses, and	Reserve to impose additional prudential	
	insurance companies. <sup>87</sup>	regulations on such entities and provides such	
	There is not an orderly resolution process	entities with discount and borrowing privileges	
	in the E.U. that is comparable with the U.S. OLA.	from the Federal Reserve.	
	ODA.	[DFA Title VIII.]	
		Importantly, Title II of the Dodd-Frank Act sets	
		forth the Orderly Liquidation Authority, an	
		alternative to bankruptcy which allows the	
		relevant regulator to temporarily guarantee the	
		debt of a failing systemically important	
		financial company. It is unclear whether	
		systemically important financial market utilities	
		will have OLA access.	
		[DFA Title II]	

<sup>87</sup> Int'l Monetary Fund, Global Financial Stability Report: Meeting New Challenges to Stability and Building a Safer System 91-118 (Apr. 2010).