Title VIII: Payment, Clearing, and Settlement Supervision - Payment, Clearing, and Settlement Supervision Act of 2010 - (Sec. 803) Defines "systemically important" and "systemic importance" as referring to a situation where the failure of or a disruption to the functioning of a financial market utility or the conduct of a payment, clearing, or settlement activity could create, or increase, the risk of significant liquidity or credit problems spreading among financial institutions or markets and thereby threaten the stability of the U.S. financial system.

(Sec. 804) Directs the Financial Stability Oversight Council (Council) to designate those financial market utilities or payment, clearing, or settlement activities which are, or are likely to become, systemically important. Requires the Council to rescind such a designation if the utility or activity no longer meets the standards for systemic importance.

(Sec. 805) Requires the Board to prescribe risk management standards governing: (1) operations related to payment, clearing, and settlement activities of designated financial market utilities; and (2) the conduct of designated activities by financial institutions.

Authorizes the CFTC and the SEC, subject to review and challenge by the Board and the Council, to prescribe risk management standards for the respective designated clearing entities and financial institutions engaged in designated activities for which each is the Supervisory Agency or the appropriate financial regulator.

(Sec. 806) Authorizes the Board to authorize a Federal Reserve Bank to: (1) establish an account for a designated financial market utility and provide certain services; and (2) provide to a designated financial market utility discount and borrowing privileges, but only in unusual or exigent circumstances.

Authorizes a Federal Reserve Bank to pay earnings on balances maintained by or on behalf of a designated financial market utility.

Authorizes the Board to exempt a designated financial market utility from, or modify, any reserve requirements.

Permits a designated financial market utility to implement a change that would otherwise require advance notice if it determines that: (1) an emergency exists; and (2) immediate implementation of the change is necessary for the utility to continue to provide its services in a safe and sound manner.

(Sec. 807) Prescribes examination and enforcement actions taken by a Supervisory Agency, the Board, and the Council with respect to designated financial market utilities.

Authorizes a Supervisory Agency to determine, whenever another entity performs a service integral to the operation of a designated financial market utility, whether such service is indeed in compliance with regulations and standards to the same extent as if the utility were performing the services on its own premises.

Grants the Board authority to recommend to the proper Supervisory Agency or itself take emergency enforcement actions against a designated financial market utility in the event of imminent risk of substantial harm.

(Sec. 808) Prescribes examination and enforcement actions by the Board against financial institutions subject to standards for designated activities.

(Sec. 809) Authorizes the Council to require any financial market utility and/or financial institution engaged in payment, clearing, or settlement activities to submit information it may require for the sole purpose of assessing whether that utility is systemically important, but only if the Council has reasonable cause to believe that the utility meets the standards for systemic importance.

Authorizes the Board and the Council to: (1) require financial institutions and designated financial market utilities to submit prescribed reports and data; and (2) share information of material concerns with the appropriate financial regulator and any Supervisory Agency. Grants such information sharing a specified exemption from FOIA disclosure requirements.

(Sec. 813) Requires the CFTC and the SEC to coordinate with the Board to develop jointly risk management supervision programs for designated clearing entities.