



Exhibit C.1

List of ICE Trade Vault, LLC's Board of Managers and Officers

Name	Biographical Information
Jeffrey C. Sprecher	(a) Mr. Jeffrey C. Sprecher
Director	(b) Director
	(c) Term commenced October 28, 2011. ICE Trade Vault Directors do not serve for a fixed term.
	<u>(d-e) Jeff Sprecher is Founder, Chairman and CEO of Intercontinental Exchange, Inc. (d-e) Mr. Sprecher is the founder of Intercontinental Exchange, Inc., serving as the company's Chief Executive Officer since May 2000 and as the Chairman of the Board November 2002-\$28 billion in 15 years. Under Sprecher's leadership, ICE grew from operating an energy swaps market into a network of 11 global exchanges, including the Exchange, through organic growth and acquisitions.</u>
	<u>Mr. Sprecher purchasedAs a power plant developer, Sprecher recognized the need among energy market participants for an accessible, standardized electronic marketplace for OTC energy contracts. He acquired Continental Power Exchange (CPEX) in 1997 to achieve his vision of an efficient market that would bring transparency and capital efficiency to previously opaque and fragmented markets. IntercontinentalExchange-Intercontinental Exchange was formed in 2000 and the company completed its initial public offering in London (2001), the New York Board of Trade (2007), Creditex (2008), The Clearing Corporation (2009) and the Climate Exchange (2010).</u>
	<u>In addition to expanding through acquisitions, Mr. Sprecher has focused ICE's resources on</u>
	<u>Prior to acquiring CPEX, Mr. Sprecher held a number of positions in the power industry. For 14 years, hePrior to acquiring CPEX, Sprecher served as President of Western Power Group, Inc., a developer, owner and operator of large central-station power plants in California</u>
	<u>Mr. Sprecher's leadership has been recognized by BusinessWeek, Institutional Investor and Engineering from the University of Wisconsin at Madison and a Master of BusinessYoung's Administration from Pepperdine University in Malibu, California.Fortune magazine.</u>
	<u>(f) Business Affiliations:</u>
	<u>- Chicago Climate Futures Exchange, LLC, Director</u>
	<u>- Euronext N.V., Supervisory Board Member</u>
	<u>- ICE Clear Canada, Inc., Director</u>
	<u>- ICE Clear Europe Limited, Director</u>
	<u>- ICE Clear Singapore Pte. Ltd., Director</u>
	<u>- ICE Data Management Group, LLC, Director</u>
	<u>- ICE Futures Canada, Inc., Director</u>

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[- ICE Futures Europe, Director](#)
[- ICE Futures Holdco No 1 Limited, Director](#)

Intercontinental Exchange, Inc.
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3rd Floor
Atlanta, GA 30328
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3rd Floor
Atlanta, GA 30328

tel	+1 770 857 4700
fax	+1 770 937 0020
online	theice.com

tel	+1 770 857 4700
fax	+1 770 937 0020
online	theice.com

Name	Biographical Information
	<ul style="list-style-type: none"> - ICE Futures Singapore Pte. Ltd., Director - ICE Futures U.S., Inc., Director - ICE Singapore Holdings Pte. Ltd., Director - ICE Trade Vault Canada, LLC, Director - ICE Trade Vault, LLC, Director - ICE U.S. OTC Commodity Markets, LLC, Director - Intercontinental Exchange Holdings, Inc., Director - Intercontinental Exchange Holdings, Inc., Officer - Intercontinental Exchange, Inc., Director - LIFFE Administration and Management, Director - New York Stock Exchange LLC, Director - NYSE Amex Options LLC, Director - NYSE Arca Equities, Inc., Director - NYSE Arca, Inc., Director - NYSE B.V., Supervisory Board Member - NYSE Group, Inc., Director - NYSE Holdings LLC, Director - NYSE Market (DE), Inc., Director - NYSE MKT LLC, Director - NYSE NATIONAL, INC., Director - NYSE Technologies Canada Ltd., Director - NYSE Technologies Connectivity, Inc., Director - Stock Clearing Corporation, Director <p>(g) None.</p>
<p><u>Scott Hill</u></p> <p>Director</p>	<p>(a) <u>Scott Hill</u></p> <p>(b) <u>Director</u></p> <p>(c) <u>Term commenced October 28, 2011. ICE Trade Vault Directors do not serve for a fixed term.</u></p> <p><u>Mr. Hill has been a director of ICE Trade Vault for approximately one week. A native of Wisconsin, Mr. Sprecher earned a Bachelor of Science degree in Chemical</u></p> <p>(e) — Mr. Hill has served as Senior Vice President and Chief Financial Officer of</p> <p>(a) — Mr. Scott Hill</p> <p>(b) <u>Director</u></p> <p>(c) — Term commenced October 28, 2011. ICE Trade Vault Directors do not serve for a fixed term.</p>
<p><u>Scott Hill</u></p> <p>Director</p>	<p><u>Measurements at IBM, where he oversaw worldwide financial performance and worked with all global business units and geographies. Mr. Hill began his career at IBM and held various accounting and financial positions in the U.S., Europe, and Japan, including Vice President and Controller of IBM Japan, and Assistant Controller, Financial Strategy and Budgets.</u></p>

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~~A native of Texas, Mr. Hill earned a Bachelor of Business Administration degree from the University of Texas and completed a Master of Business Administration at the Stern School of Business at New York University.~~

(f) None.
(g) None.

Charlie Crisp

Prior to joining ICS, Mr. Crisp worked at IBM, where he was responsible for measurements at IBM.

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<u>Name</u>	<u>Biographical Information</u>

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with all global business units and geographies. Mr. Hill began his career at IBM and held various accounting and financial positions in the U.S., Europe, and Japan, including Vice President and Controller of IBM Japan, and Assistant Controller, Financial Strategy and Budgets.

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A native of Texas, Mr. Hill earned a Bachelor of Business Administration degree from the University of Texas and completed a Master of Business Administration at the Stern School of Business at New York University.

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(f) Business Affiliations:

- 5509794 Manitoba Inc., Officer
- Aether Ios Limited, Director
- Archipelago Securities LLC, Officer
- Archipelago Trading Services, Inc., Director & Officer
- Ballista Holdings LLC, Director
- Ballista Holdings LLC, Officer
- Bondedge Solutions LLC, Officer
- Brix Holding Company, LLC, Manager
- Brix Holding Company, LLC, Officer
- Chicago Climate Exchange, Inc., Director
- Chicago Climate Exchange, Inc., Officer
- Chicago Climate Futures Exchange, LLC, Director
- Chicago Climate Futures Exchange, LLC, Officer
- Chicago Depository Inc., Director
- Clearing Corporation for Options & Securities, Director
- Climate Exchange (Europe) Limited, Director
- Climate Exchange plc, Director
- Climate Spot Exchange Limited, Director
- Climate Spot Markets Limited, Director
- Creditex Group Inc., Director
- Creditex Group Inc., Officer
- Creditex Holdco Limited, Officer
- Creditex Holdco, LLC, Manager
- Creditex LLC, Officer
- Creditex Securities Corporation, Director
- Creditex Securities Corporation, Officer
- CreditTrade Inc., Director
- CreditTrade Inc., Officer
- ENTERPRISES AVIATION, LLC, Intercontinental Exchange Holdings Director
- ENTERPRISES AVIATION, LLC, Officer
- Euronext N.V., Supervisory Board Member
- European Climate Exchange (London) Limited, Director
- European Climate Exchange Ltd, Director
- FINRA/NYSE Trade Reporting Facility LLC, Officer

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<u>Name</u>	<u>Biographical Information</u>
	<ul style="list-style-type: none"> - Guaranty Clearing Corporation, Director - ICE 4165, LLC, Manager - ICE 4165, LLC, Officer - ICE 5660, LLC, Director - ICE 5660, LLC, Officer - ICE Asia Holdings Limited, Director - ICE Brazil Technology, LLC, Manager - ICE Brazil Technology, LLC, Officer - ICE Clear Canada, Inc., Director - ICE Clear Credit LLC, Manager - ICE Clear Europe Limited, Director - ICE Clear UK Limited, Director - ICE Clear US, Inc., Director - ICE Credit Hub, LLC, Director - ICE Credit Hub, LLC, Officer - ICE Data Holdings Limited, Director - ICE Data Investment Group, LLC, Manager - ICE Data Management Group, LLC, Officer - ICE Data Services Limited, Director - ICE Education Limited, Director - ICE Europe Parent Limited, Director - ICE Europe Partners LP, Officer - ICE Execution Services, LLC, Director - ICE Futures Canada, Inc., Director - ICE Futures Holdco No 2 Limited, Director - ICE Futures Holdings Ltd, Director - ICE Futures U.S., Inc., Director - ICE Markets Corporation, Director - ICE Markets Corporation, Officer - ICE Markets Limited, Director - ICE Markets, Inc., Director - ICE Markets, Inc., Officer - ICE Overseas Limited, Director - ICE Processing, LLC, Manager - ICE Trade Vault Canada, LLC, Director - ICE Trade Vault Europe Limited, Director - ICE Trade Vault, LLC, Director - ICE Trade Vault, LLC, Officer - ICE U.S. OTC Commodity Markets, LLC, Director - ICE U.S. OTC Commodity Markets, LLC, Officer - ICE UK GP, LLC, Director - ICE UK GP, LLC, Officer - ICE UK LP, LLC, Director - ICE UK LP, LLC, Officer - ICE US Holding Company GP LLC, Manager

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<u>Name</u>	<u>Biographical Information</u>
	<ul style="list-style-type: none"> - ICE US Holding Company GP LLC, Officer - ICE US Holding Company LP LLC, Director - ICE US Holding Company LP LLC, Officer - IDCO Canada Holdings Inc., Director - IDCO Canada Holdings Inc., Officer - Igloo Intermediate Corporation, Director - Igloo Intermediate Corporation, Officer - Imperium Centre Limited, Director - Insurance Futures Exchange Services Ltd, Director - Intelligent Business Entertainment, Inc., Director & Officer - Interactive Data Corporation, Director - Interactive Data Corporation, Officer - Interactive Data Holdings Corporation, Director - Interactive Data Holdings Corporation, Officer - Interactive Data Online Properties, Inc., Director - Interactive Data Online Properties, Inc., Officer - Interactive Data Real-Time Group, Inc., Director - Interactive Data Real-Time Group, Inc., Officer - Interactive Data Real-Time Services, Inc., Director - Interactive Data Real-Time Services, Inc., Officer - Intercontinental Exchange Holdings, Inc., Director - Intercontinental Exchange Holdings, Inc., Officer - Intercontinental Exchange, Inc., Officer - IntercontinentalExchange Holdings, Director - IntercontinentalExchange International, Inc., Director - IntercontinentalExchange International, Inc., Officer - LIFFE (Holdings) Limited, Director - LIFFE Services Limited, Director - New York Stock Exchange LLC, Officer - NYSE (UK) Limited, Director - NYSE Amex Options LLC, Officer - NYSE Arca Equities, Inc., Officer - NYSE Arca, Inc., Officer - NYSE Arca, L.L.C., Officer - NYSE B.V., Supervisory Board Member - NYSE Governance Services, Corporate Board Member, LLC, Director & Officer - NYSE Governance Services, Inc., Director & Officer - NYSE Group, Inc., Officer - NYSE Holdings LLC, Officer - NYSE Holdings UK Limited, Director - NYSE IP LLC, Officer - NYSE Market (DE), Inc., Officer - NYSE MKT LLC, Officer - NYSE NATIONAL, INC., Officer - NYSE Technologies Canada Ltd., Officer

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Name	Biographical Information
	<ul style="list-style-type: none"> - NYSE Technologies Connectivity, Inc., Officer - PDR Services LLC, Officer - Pit Trader LLC, Manager - Pit Trader LLC, Officer - SDX Trading, LLC, Officer - Securities Industry Automation Corporation, Officer - Stock Clearing Corporation, Officer - Super Derivatives (Israel) Ltd., Director - Super Derivatives, Inc., Director - Super Derivatives, Inc., Officer - Superderivatives (Australia) Pty Limited, Director - SuperDerivatives UK Limited, Director - Tap and Trade, Inc., Director - Tap and Trade, Inc., Officer - The Clearing Corporation, Director - The Clearing Corporation, Officer - TradeCapture OTC Corp., Director - TradeCapture OTC Corp., Officer - TradeCapture OTC Holdings, Inc., Director - TradeCapture OTC Holdings, Inc., Officer - Trebuchet Holdings LLC, Director - Trebuchet Holdings LLC, Officer - Wall and Broad Insurance Company, Officer - WhenTech, LLC, Manager - Wombat Technologies Development Limited, Director - YellowJacket, Inc., Director - YellowJacket, Inc., Officer <p>(g) None.</p>
<p>Charlie Crisp</p> <p>Public Director</p>	<p>(a) Charlie Crisp</p> <p>(b) Director (Public Director)</p> <p>(c) Term commenced February 18, 2014. ICE Trade Vault Directors do not serve for a fixed term.</p> <p>(d) Charlie Crisp has been a director of ICE Trade Vault for approximately three weeks.</p> <p>(e) Charlie Crisp has been a director of IntercontinentalExchange Group, Inc. since November, 2002. Charlie Crisp has also served as a director for the ICE Futures U.S. Board and a member of IntercontinentalExchange Group, Inc. Compensation and Audit Committee.</p> <p>Prior to joining the ICE board, Charlie Crisp spent over three decades in public office, most</p>

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<u>Name</u>	<u>Biographical Information</u>
	<p>trading platform. He currently oversees the strategy, development and global sales of the ICE eConfirm Service. Mr. Tupper was integral to the founding of ICE eConfirm in 2001 with a working group of eight exchange partners. Today, ICE eConfirm has over 200 global customers and 45 brokerage entities. The service offers a widely adopted legal framework and standards necessary for the central processing of trade confirmations. Mr. Tupper is also leading ICE's development of Trade Vault. In regards to the Swap Data Repository, Real Time and Recordkeeping Rules, Mr. Tupper has spoken on a number of CFTC Roundtables and provided the Commission with comment letters and guidance.</p> <p>Prior to joining ICE, Mr. Tupper held a variety of sales and broker positions in the commodities industry including NYMEX member, OTC broker and sales manager. Mr. Tupper holds a Bachelor's of Science in Business Administration from the University of New Hampshire.</p> <p>(f) None.</p> <p>(g) — None.</p>
<p>Kara Dutta</p> <p>General Counsel</p>	<p>(a) Kara Dutta</p> <p>(b) General Counsel</p> <p>(c) Term commenced March 28, 2011. — ICE Trade Vault Officers do not serve for a fixed term.</p> <p>(d) Ms. Dutta has been General Counsel of ICE Trade Vault for approximately two and a half years.</p> <p>(e) Ms. Dutta has been at ICE since 2012 where she has focused on regulatory and government affairs. She is also General Counsel of ICE Trade Vault, LLC. Prior to joining ICE, Ms. Dutta was Senior Counsel at Mirant/GenOn, the merchant utility formerly based in Atlanta. At Mirant, Ms. Dutta supported the energy trading business. Prior to joining Mirant, Ms. Dutta was a derivatives attorney at Lehman Brothers where she focused on supporting various entities in their derivatives trading business.</p> <p>Ms. Dutta holds a Juris Doctorate from the Benjamin Cardozo School of Law in New York and a Bachelor of Arts, cum laude, from the University of Florida where she was a member of the Phi Beta Kappa society.</p> <p>(f) None.</p> <p>(g) None.</p>
<p>Melissa Ratnala</p>	<p>(a) Melissa Ratnala</p>

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<u>Name</u>	<u>Biographical Information</u>
Director of Sales & Operations	<p>(b) — Director of Sales & Operations</p> <p>(c) — term.</p> <p>(d) Ms. Ratnala has been Director of Sales & Operations of ICE Trade Vault for approximately two years.</p> <p>(e) — Ms. Ratnala has been at ICE since 2013. Ms Ratnala currently oversees the North American sales and operations of ICE’s confirmation matching platform, ICE eConfirm and independent Swap Data Repository service, ICE Trade Vault. She has more than fifteen years of experience in the commodities industry with a focus on energy markets.</p>

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Name	Biographical Information
	<p><u>(f) Business Affiliations:</u></p> <p>- <u>ICE Futures U.S., Inc., Executive</u></p> <p><u>(g) None.</u></p>
<p><u>Kara Dutta</u></p> <p><u>General Counsel</u></p>	<p><u>(a) Kara Dutta</u></p> <p><u>(b) General Counsel</u></p> <p><u>(c) Term commenced March 28, 2012. ICE Trade Vault Officers do not serve for a fixed term.</u></p> <p><u>(d) Ms. Dutta has been General Counsel of ICE Trade Vault for approximately two and a half years.</u></p> <p><u>(e) Ms. Dutta has been at ICE since 2012 where she has focused on regulatory and government affairs. She is also General Counsel of ICE Trade Vault, LLC. Prior to joining ICE, Ms. Dutta was Senior Counsel at Mirant/GenOn, the merchant utility formerly based in Atlanta. At Mirant, Ms. Dutta supported the energy trading business. Prior to joining Mirant, Ms. Dutta was a derivatives attorney at Lehman Brothers where she focused on supporting various entities in their derivatives trading business.</u></p> <p><u>Ms. Dutta holds a Juris Doctorate from the Benjamin Cardozo School of Law in New York and a Bachelor of Arts, cum laude, from the University of Florida where she was a member of the Phi Beta Kappa society.</u></p> <p><u>(f) None.</u></p> <p><u>(g) None.</u></p>
<p><u>Melissa Ratnala</u></p> <p><u>Chief Operating Officer</u></p>	<p><u>(a) Melissa Ratnala</u></p> <p><u>(b) Chief Operating Officer</u></p> <p><u>(c) Term commenced June 2, 2016. ICE Trade Vault Officers do not serve for a fixed term.</u></p> <p><u>(d) Ms. Ratnala has been Chief Operating Officer of ICE Trade Vault for approximately eleven months.</u></p> <p><u>(e) Ms. Ratnala has been at ICE since 2013. Ms Ratnala currently oversees the North American sales and operations of ICE's confirmation matching platform, ICE eConfirm and independent Swap Data Repository service, ICE Trade Vault. She has more than fifteen years of experience in the commodities industry with a focus on energy markets.</u></p>

Name	Biographical Information
	<p>Prior to joining ICE, Ms. Ratnala was Head of Power Settlements and Dealer Support Macquarie Energy and spent over 10 years at Calpine Corporation, leading its Accounting, Settlements and ISO Operations teams.</p> <p>Ms. Ratnala holds a BS in Hospitality Management from the University of Houston MBA from Rice University.</p> <p>(f) None.</p> <p>(g) None.</p>
<p>Takako Okada</p> <p>Chief Compliance Officer</p>	<p>(a) Takako Okada</p> <p>(b) Chief Compliance Officer</p> <p>(c) Term commenced August 31, 2015. ICE Trade Vault Officers do not serve for a fixed term.</p> <p>(d) Ms. Okada has just commenced her tenure as been Chief Compliance Officer of ICE Trade Vault for approximately one year and nine months.</p> <p>(e) Ms. Okada joined ICE on August 24, 2015. Prior to joining ICE, she served as Compliance for Foliofn Investments, Inc., a self-clearing broker-dealer registered with the SEC and FINRA. Prior to joining Foliofn Investments, Inc., Ms. Okada was a compliance advisor at Capital One Financial Corporation, where she instituted and managed compliance programs for trading activities in financial derivatives and fixed income securities. Prior to such, Ms. Okada also spent over 13 years at Financial Industry Regulatory Authority ("FINRA"), where she managed various regulatory reviews and surveillance of listed and over-the-counter equities trading.</p> <p>Ms. Okada holds a Master of Business Administration in Finance from Johns Hopkins University Carey Business School, and a Bachelor of Arts in Business/Finance from Notre Dame of Maryland University.</p> <p>(f) None.</p> <p>(g) None.</p>

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