# Alternative Reference Rates Committee (ARRC) Minutes for the April 17, 2018 Meeting

- 1. The ARRC discussed several administrative items: The ARRC approved retaining Morgan Lewis as outside anti-trust counsel. The ARRC approved chairs or co-chairs for two workgroups. A current list of working group members and chairs is attached (Attachment 1 to these minutes). The ARRC also discussed a clarification to its Terms of Reference regarding the sharing of materials and information circulated to ARRC members; no ARRC member expressed concerns about the clarification of the Terms of Reference (Attachment 2).
- 2. The ARRC discussed the issue of incorporating a potential fallback rate to the Secured Overnight Financing Rate (SOFR) in the forthcoming ISDA SOFR definition. It was noted that ISDA would conduct its standard consultation processes in formulating a SOFR definition, but would welcome the views of the ARRC. The ARRC discussed several potential fallback rates to the SOFR, events that would trigger the transition to a SOFR fallback rate, and whether there was a need to incorporate a spread adjustment if the use of a fallback rate was triggered. The ARRC agreed that it was important for ISDA to finalize a definition for SOFR quickly to facilitate growth in trading of SOFR derivatives contracts.
- 3. Federal Reserve staff summarized statements that were published on the Federal Reserve Bank of New York's (FRBNY) website on April 10, 2018, and April 16, 2018, regarding the publication of Treasury repo reference rates. Shortly after publication of the SOFR began, the FRBNY received feedback that the bilateral volumes underlying the SOFR appeared to be higher than some had expected. Following a thorough review of this issue with the data provider, it was discovered that forward-settling overnight Treasury repo transactions were inadvertently included in the source data provided to the New York Fed. Starting with the April 16, 2018 publication, these transactions were excluded from the SOFR Calculation (FRBNY subsequently released updated daily historical indicative rates and volumes that cover the period prior to SOFR publication). The ARRC chair noted that the issue had been identified before any trading of SOFR instruments had taken place, that the FRBNY had quickly addressed and rectified the issue demonstrating its ongoing commitment to the transparent production of reference rates consistent with best practices, and that the impacts on the rate were quite small.
- 4. The CME provided an update on plans to launch SOFR futures contracts on May 7, 2018. The ARRC chair noted that this development is a critical step in the Paced Transition Plan, and emphasized the need for ARRC members to promote the development of the market by actively participating in SOFR futures contracts.
- 5. ISDA discussed its plan to publish a consultation on changes to ISDA's LIBOR, EURIBOR, TIBOR, and other interbank rates definitions in order to incorporate more robust fallback language.

- 6. The ARRC discussed potential guiding principles that the ARRC's cash product working groups should follow as they develop more robust language for newly-written contracts referencing U.S. dollar LIBOR and noted draft fallback language that PIMCO had circulated for floating rate notes (a version is included as Attachment 3) as useful in helping to spur discussion within the ARRC and the working groups. The potential guiding principles presented by the cash-product working groups covered areas such as the process for formulating potential contract language; broad guidelines related to successor rates, spreads, and trigger events; consistency of language across asset classes; and feasibility and fairness of implementation. The ARRC agreed to review and provide feedback on the potential guiding principles in hopes that they could be ratified at the next ARRC meeting.
- 7. The chairs of the ARRC's cash product working groups presented preliminary work plans and timelines for the development of potentially more specific recommendations on more robust language for newly-written contracts referencing U.S. dollar LIBOR. The chairs of the four cash product working groups agreed to continue developing their work plans and suggested they would aim to finalize potential new contract language that the ARRC could consider before the end of 2018.

<sup>1</sup> The ARRC has four cash product working groups: Floating Rate Notes, Mortgages & Consumer Loans, Business Loans & CLOs, and Securitizations.

### Attendance at the April 17, 2018 Meeting

#### **ARRC Members**

AXA **Charles Schwartz** Bank of America Alex van Voorhees Bank of America Paul Scurfield BlackRock Jack Hattem **Daniel Leadbetter** Citigroup CME Agha Mirza CME Fred Sturm Adam Eames Deutsche Bank Deutsche Bank Vishal Mahadkar Fannie Mae **Nadine Bates** Freddie Mac Ameez Nanjee

GE Capital Michael Taets
Goldman Sachs Scott Rofey
Government Finance Officers Association Pat McCoy
Government Finance Officers Association Emily Brock

HSBC Shirley Hapangama

Intercontinental Exchange Chris Edmonds
International Swaps and Derivatives Association Ann Battle

JP Morgan

JP Morgan

Terry Belton\*

JP Morgan

Alice Wang

JP Morgan

Emilio Jimenez

LCH

Phil Whitehurst\*

Met Life

Kevin Budd

Met Life

Alex Strickler\*

Morgan Stanley Maria Douvas-Orme

Tom Wipf

National Association of Corporate Treasurers Tom Deas

Pacific Investment Management Company William De Leon\*

TD Bank Greg Moore
The Federal Home Loan Banks, through FHLBNY Phil Scott
The Independent Community Bankers of America James Kendrick

The Loan Syndications and Trading Association Meredith Coffey
The Securities Industry and Financial Markets Association Randy Snook

The Securities Industry and Financial Markets Association

Wells Fargo

Brian Grabenstein

World Bank Group

Don Sinclair\*

### **Ex-Officio ARRC Members**

Morgan Stanley

Commodity Futures Trading Commission

Sayee Srinivasan\*

Consumer Financial Protection Bureau

Ron Borzekowski

Federal Deposit Insurance Corporation

Federal Housing Finance Agency

Federal Reserve Bank of New York

Sayee Srinivasan\*

Ron Borzekowski

Irina Leonova

Dan Coates

Matt Lieber

## Attendance at the April 17, 2018 Meeting

Federal Reserve Bank of New York Josh Frost Federal Reserve Bank of New York Ray Check Federal Reserve Bank of New York William Riordan Caren Cox Federal Reserve Bank of New York Federal Reserve Bank of New York Laura Macedo\* Federal Reserve Bank of New York Justine Hansen Federal Reserve Bank of New York Adhiraj Dutt Federal Reserve Board of Governors Evan Winerman Federal Reserve Board of Governors David Bowman Federal Reserve Board of Governors Chiara Scotti Federal Reserve Board of Governors Erik Heitfield Federal Reserve Board of Governors Joshua Louria Office of Financial Research Matt McCormick\* Office of the Comptroller of the Currency Kevin Walsh\* Office of the Comptroller of the Currency Michael Killick\* David Metzman U.S. Securities and Exchange Commission U.S. Securities and Exchange Commission Michelle Danis\* U.S. Treasury **Brian Smith** 

### **Observers**

American Bankers Association

Barry Mills

Bank of Canada

CRE Finance Council

Morgan Lewis

Structured Finance Industry Group

Barry Mills

Sheryl King

Lisa Pendergast

Jon Roellke\*

<sup>\*</sup> Indicates participation by telephone

# Attachment 1 – ARRC Working Group Members

Paced Transition	Market Structure
Bank of America	AXA
Barclays	Bank of America
BGC Partners	Barclays
Bloomberg	BGC Partners
BNP Paribas	BlackRock
BNY Mellon	Bloomberg
Citigroup	BNP Paribas
CME Group	BNY Mellon
Credit Suisse	Citigroup
Depository Trust & Clearing Corporation	CME Group
Deutsche Bank	Credit Suisse
Federal Home Loan Mortgage	Deutsche Bank
Goldman Sachs	Federal Home Loan Mortgage
HSBC	Federal National Mortgage Association
ICAP	GE Capital
Intercontinental Exchange	Goldman Sachs
International Swaps and Derivatives Association	HSBC
JP Morgan Chase & Co.	ICAP
LCH	Inter-American Development Bank
Morgan Lewis	Intercontinental Exchange
Morgan Stanley	International Swaps and Derivatives Association
MUFG	JP Morgan Chase & Co.
Nomura	LCH
Pacific Investment Management Company	MetLife
Prudential Financial	Mizuho Financial Group
Royal Bank of Canada	Morgan Lewis
Royal Bank of Scotland	Morgan Stanley
Societe Generale	Nomura
TD Bank	Pacific Investment Management Company
UBS	PNC Financial Services Group
Wells Fargo	Prudential Financial
*Red indicates working group chair.	Royal Bank of Scotland
	Securities Industry and Financial Markets Association
	Societe Generale
	TD Bank
	UBS
	Wells Fargo
	World Bank Group

World Bank Group
\*Red indicates working group co-chairs.

# Attachment 1 – ARRC Working Group Members

Regulatory Issues	Legal
Bank of America	AXA
BNP Paribas	Bank of America
BNY Mellon	Barclays
Citigroup	BlackRock
Deutsche Bank	BNP Paribas
Federal National Mortgage Association	BNY Mellon
Goldman Sachs	Citigroup
HSBC	Credit Suisse
Intercontinental Exchange	Deutsche Bank
International Swaps and Derivatives Association	Federal Home Loan Bank of Atlanta
JP Morgan Chase & Co.	Federal National Mortgage Association
Morgan Lewis	GE Capital
Morgan Stanley	Goldman Sachs
National Association of Corporate Treasurers	HSBC
Pacific Investment Management Company	International Swaps and Derivatives Association
Royal Bank of Scotland	JP Morgan Chase & Co.
Securities Industry and Financial Markets Association	MetLife
Wells Fargo	Mizuho Financial Group
*Red indicates working group chair.	Morgan Lewis
	Morgan Stanley
	Nomura
	Pacific Investment Management Company
	Royal Bank of Scotland
	Securities Industry and Financial Markets Association
	Societe Generale
	TD Bank
	UBS

<sup>\*</sup>Red indicates working group co-chairs.

Wells Fargo

### Attachment 1 - ARRC Working Group Members

### **Floating Rate Notes**

### **Mortgages/Consumer Loans**

Bank of America BlackRock

Citigroup Covenant Review

Deutsche Bank

Fodoral Farm Crodit Banks Funding Cor

Federal Farm Credit Banks Funding Corporation

Federal Home Loan Mortgage

Federal National Mortgage Association

Federated

FHLB Office of Finance Goldman Sachs

**HSBC** 

Inter-American Development Bank

International Swaps and Derivatives Association

JP Morgan Chase & Co.

Morgan Lewis Morgan Stanley

**Pacific Investment Management Company** 

PNC Financial Services Group

Schroders

Securities Industry and Financial Markets Association

Swap Financial Group

TD Bank Wells Fargo AXA

American Bankers Association

Bank of America

BlackRock

Citigroup

Deutsche Bank

Federal Home Loan Mortgage

Federal National Mortgage Association

Goldman Sachs

**HSBC** 

JP Morgan Chase & Co.

Morgan Lewis

Morgan Stanley

Navient

PNC Financial Services Group

Prudential Financial

Quicken

Securities Industry and Financial Markets Association

TD Bank U.S. Bancorp Wells Fargo

<sup>\*</sup>Red indicates working group chair.

<sup>\*</sup>Red indicates working group chair.

### Attachment 1 - ARRC Working Group Members

### **Business Loans/CLOs**

#### **Securitizations**

AXA

American Bankers Association

Banc of California Bank of America BlackRock BNY Mellon

ΒP

Capital One Chatham Financial

Citigroup Comerica Covenant Review Credit Suisse Deutsche Bank

**HSBC** 

Inter-American Development Bank

JP Morgan Chase & Co.

Loan Syndications and Trading Association

MetLIfe

Mizuho Financial Group

Morgan Lewis Morgan Stanley

**PNC Financial Services Group** 

Prudential Financial Rockland Trust Royal Bank of Canada

Schroders

Securities Industry and Financial Markets Association

Structured Finance Industry Group

Swap Financial Group TCF National Bank

TD Bank U.S. Bancorp Wells Fargo AIG

Bank of America BlackRock Cadwalader Chatham Financial

Citigroup

**CRE Finance Council** 

Credit Suisse Dechert Deutsche Bank

Federal Home Loan Bank of Cincinnati

Federal Home Loan Mortgage

Federal National Mortgage Association

Goldman Sachs

**HSBC** 

JP Morgan Chase & Co.

KeyBank MetLife

Mizuho Financial Group

Morgan Lewis Morgan Stanley Navient

**PNC Financial Services Group** 

Prudential Financial Royal Bank of Canada

Securities Industry and Financial Markets Association

Structured Finance Industry Group

U.S. Bancorp Wells Fargo

<sup>\*</sup>Red indicates working group co-chairs.

<sup>\*</sup>Red indicates working group co-chairs.

# Attachment 1 – ARRC Working Group Members

Term Rate Accounting/Tax

AXA

Bank of America

Barclays BNP Paribas Citigroup CME Group Deuts che Bank

Federal Home Loan Mortgage

Federal National Mortgage Association

HBSC HSBC

Intercontinental Exchange

International Swaps and Derivatives Association

JP Morgan Chase & Co.

LCH

Morgan Lewis Morgan Stanley

Pacific Investment Management Company

PNC Financial Services Group

Royal Bank of Scotland

TD Bank Wells Fargo American Bankers Association

Bank of America Barclays BNP Paribas Chatham Financial

Citigroup

Deutsche Bank

Federal National Mortgage Association

HSB(

International Swaps and Derivatives Association

JP Morgan Chase & Co.

Loan Syndications and Trading Association

MetLife

Morgan Lewis

National Association of Corporate Treasurers

TD Bank Wells Fargo

<sup>\*</sup>Red indicates working group co-chairs.

<sup>\*</sup>Red indicates working group chair.

# Attachment 1 - ARRC Working Group Members

### **Outreach/Communications**

American Bankers Association

AXA

**CFPB** 

CFTC

CME Group

**CRE Finance Council** 

Ernst & Young

FDIC

FHFA

Government Finance Officers Association

Independent Community Bankers of America

Inter-American Development Bank

International Swaps and Derivatives Association

### JP Morgan Chase & Co.

Loan Syndications and Trading Association

Morgan Lewis

National Association of Corporate Treasurers

OCC

OFR

Oliver Wyman

SEC

Securities Industry and Financial Markets Association

Structured Finance Industry Group

U.S. Treasury

World Bank Group

<sup>\*</sup>Red indicates working group co-chairs.

### **Attachment 2**

### Clarification to the ARRC's Terms of Reference

This Clarification is for the Alternative Reference Rates Committee's Terms of Reference, revised March 7, 2018, which is available on the ARRC's website at the following link: https://www.newyorkfed.org/medialibrary/microsites/arrc/files/ARRC-TOR.PDF

Representatives to the ARRC may share any materials and information circulated by the ARRC within their organization (the ARRC member), however, in accordance with the Terms of Reference, ARRC members are not authorized to speak on behalf of the ARRC without the consent of the Chair, and any information disclosed, opinions expressed, or statements made during ARRC meetings and working group meetings shall be treated as strictly confidential, unless the Chair of the ARRC has authorized release or disclosure is required by law. However, associations acting as ARRC members are free to inform their members about the general issues being addressed by the ARRC and its workgroups, express their own views on those issues, and solicit their members' views in order to better inform their own participation. Further, all ARRC members can discuss with their members or members of the public specific information that has been published on the ARRC web site, including the minutes of the ARRC meetings.

### Attachment 3

### **Draft Language for Floating Rate Notes Circulated by PIMCO**

### LIBOR Discontinuance Event.

Upon the occurrence of a LIBOR Discontinuance Event, on the Business Day immediately following the LIBOR Event Discontinuance Date, LIBOR shall be replaced with:

- (1) A [X] month SOFR rate ("[X] Month SOFR") published by the central bank, reserve bank, monetary authority or any similar institution or an administrator designated by the central bank, reserve bank, monetary authority or any similar institution plus a Replacement Floating-Rate Spread, if any
- (2) If no [X] Month SOFR exists, an equivalent term interpolated SOFR rate selected, endorsed or recommended by the central bank, reserve bank, monetary authority or any similar institution (including any committee or working group thereof) as a replacement for [X] month LIBOR that is consistent with accepted market practice plus a Replacement Floating-Rate Spread, if any (the "Adjusted SOFR Interpolated Rate"); or
- (3) if no such Adjusted SOFR Interpolated Rate exists, SOFR plus a Replacement Floating-Rate Spread, if any; or
- (4) if no such Adjusted SOFR Interpolated Rate or SOFR exists, an alternative, substitute or successor rate selected, endorsed or recommended by the central bank, reserve bank, monetary authority or any similar institution (including any committee or working group thereof) as a replacement for [X] month LIBOR that is consistent with accepted market practice plus a Replacement Floating-Rate Spread, if any.

### LIBOR Discontinuance Event shall mean the occurrence of one or more of the following events:

- 1) A public statement by the supervisor of the relevant LIBOR administrator of the insolvency of such LIBOR administrator (and there is no successor administrator); or
- 2) A public statement by the relevant LIBOR administrator that it will cease publishing the relevant LIBOR permanently or indefinitely (and there is no successor administrator); or
- 3) A public statement by the supervisor of the relevant LIBOR administrator that the relevant LIBOR has been permanently or indefinitely discontinued; or
- 4) A public statement by the supervisor of the relevant LIBOR administrator that the relevant LIBOR may no longer be used; or
- 5) A new, current LIBOR rate is not published by the relevant LIBOR administrator for 5 consecutive business days that is not a result of a temporary moratorium, embargo or disruption declared by the LIBOR administrator or any regulator; or
- 6) Any regulator in the jurisdiction of the Issuer declares it unlawful or prohibits the Issuer from referencing LIBOR in its [bond or loan] documentation;
- 7) The number of contributing banks submitting to the LIBOR administrator for ICE LIBOR falls to less than six (6)

### **Attachment 3**

**LIBOR Discontinuance Event Date:** For LIBOR Discontinuance Event 1 and 6 the date of such public statement, and for 2, 3, 4 and 6 the date the relevant LIBOR administrator designates as the final date of such publication, discontinuance or deadline (as applicable) and for 5, the 6<sup>th</sup> Business Day LIBOR is not published.

### "Replacement Floating-Rate Spread" shall mean:

- (1) [A spread negotiated and set between borrower and investor at time of deal]

  Note: If this is not negotiated at the time of deal then move to the following:
- (2) Any such alternative base rate modifier as designated as the industry standard replacement spread or methodology to calculate the replacement spread by the central bank, reserve bank, monetary authority or any similar institution (including any committee or working group thereof) or by ISDA that is consistent with accepted market practice which may consist of an addition to or subtraction from such unadjusted alternative base rate; provided, however, that if a standardized Replacement Floating-Rate Spread is not available or not selected by the central bank, reserve bank, monetary authority or any similar institution (including any committee or working group thereof) then the spread shall be the credit spread applicable to the LIBOR Replacement Benchmark in the ISDA definitions for interest rate derivatives; provided, however, that if a standardized Replacement Floating-Rate Spread is not available or not designated by the central bank, reserve bank, monetary authority or any similar institution (including any committee or working group thereof) or available in the ISDA definitions for interest rate derivatives, then the spread will be set based on the historical average LIBOR-SOFR-OIS spread for the [Y] year period prior to the LIBOR Discontinuance Event Date; provided, however, that if the sum of the LIBOR Replacement Benchmark and the Replacement Floating Rate Spread yields a negative number, such number shall be deemed to be zero.

"LIBOR Replacement Benchmark" shall mean any LIBOR replacement rate designated under this section.

### LIBOR Replacement Benchmark Discontinuance Event.

If, after replacing LIBOR under this agreement, the LIBOR Replacement Benchmark has been permanently discontinued (in the same manner as a LIBOR Discontinuance Event), the LIBOR Replacement Benchmark shall be replaced with the Broad General Collateral Rate ("BGCR") plus a Replacement Floating-Rate Spread, if any; provided, however, if the BCGR ceases to be published permanently by the New York Fed, one of the following rates shall be selected in the following order (in the case that any of such rates ceases to be published by the New York Fed on a permanent basis): Triparty General Collateral Rate ("TGCR"), Overnight Bank Funding Rate ("OBFR"), or Effective Federal Funds Rate ("FFE"). In each case, a Replacement Floating -Rate Spread shall be applied (except that references in that definition to "LIBOR" shall be to the "LIBOR Replacement Benchmark").