

DWS USA Corporation

U.S. Liquidity Coverage Ratio Disclosures¹

For the quarter ended March 31, 2019

1. Revised as of December 27, 2019

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The Liquidity Coverage Ratio (LCR)

The LCR is intended to promote short-term resilience in a bank's liquidity risk profile as measured over a 30 calendar-day period of significant stress. The ratio is defined as the amount of High Quality Liquid Assets (HQLA) that could be used to raise liquidity during the 30-day stress period, measured against the total volume of net cash outflows arising during the 30-day stress period from actual and contingent exposures. The LCR also takes into account potential maturity mismatches between contractual outflows and inflows during the 30 day stress period.

Deutsche Bank (DB), a banking group domiciled in Germany¹, is currently required to be compliant with the Liquidity Coverage Ratio (LCR) as outlined in the "Commission Delegated Regulation (EU) 2015/61 of October 10, 2014 to supplement Regulation (EU) No 575/2013 of the European Parliament and the Council with regard to Liquidity coverage requirements for Credit Institutions" and the corrigendum to "Regulation (EU) No 575/2013 of the European Parliament and of the Council of June 26, 2013 on prudential requirements for credit institutions and investment firms and amending regulation (EU) No 648/2012", published on November 30, 2013.

The Basel Committee on Banking Supervision (BCBS) published the international liquidity standards in December 2010 as part of the Basel III package and revised the liquidity standard in January 2013. On September 3, 2014, the U.S. regulators adopted the final rule that implements a quantitative liquidity requirement generally consistent with the LCR standard established by the BCBS. The final LCR rule applies to banks and bank holding companies (BHCs) that meet the applicability criteria of the LCR rule and to certain other regulated institutions, as determined by the Federal Reserve Board ("Federal Reserve" or "FRB").

The Enhanced Prudential Standards for Foreign Banking Organizations (FBOs) require FBOs, including DB, with non-Branch assets of \$50 billion or more to form a U.S. Intermediate Holding Company (IHC) to serve as the top-tier holding company for their non-branch U.S. subsidiaries. DWS USA Corporation (the Firm) is structured to serve as the top-tier holding company for the U.S. subsidiaries of DWS Group GmbH & Co. KGaA, a German based asset management company and majority owned subsidiary of Deutsche Bank AG. The Firm became subject to the LCR requirements as of October 1, 2018.

1 Deutsche Bank (DB) AG is a financial conglomerate as designated by the BaFin.

U.S. Disclosure Requirements

In December 2016, the Federal Reserve adopted a rule to implement public disclosure requirements (PDR) for the LCR. Under PDR, a BHC with \$50 billion or more in consolidated assets or \$10 billion or more in foreign exposure and certain other FRB regulated institutions are required to disclose publicly, on a quarterly basis, quantitative information about its LCR calculation and a discussion of the factors that have a significant effect on its LCR. Presently, the Firm is subject to these disclosure requirements. The information presented in this document is calculated in accordance with the LCR rule, unless otherwise stated. Table 7 presents the Firm's LCR.

U.S. Qualitative Disclosure Requirement

Main Drivers of LCR

The table below summarizes the Firm's average LCR for the 3 months ended March 31, 2019.

Table 1: Liquidity Coverage Ratio

Average Weighted Amounts (\$ in millions)	Three months ended March 31, 2019
HQLA	375.1
Net cash outflows	2.0
LCR (HQLA / Net cash outflows)	18418%
Excess HQLA vs. target of 1.1	372.9

In the table above, HQLA is calculated after applying regulatory haircuts to eligible assets as defined by the LCR rule. Similarly, the Firm calculates its outflow and inflow amounts by applying the standardized set of regulatory outflow and inflow LCR weights to various asset and liability balances, including off-balance-sheet commitments, as prescribed in the LCR rule.

The Firm's LCR is largely driven by:

1. HQLA, which consists of U.S. Treasuries and sovereign bonds denominated in Euro with credit ratings in excess of AA-, which qualify for a zero haircut per the LCR rule;
2. Net cash outflows driven by derivative activity (derivatives are used to hedge seed investments in funds managed by DWS); and
3. Net cash outflows driven by outstanding TLAC² eligible Debt.

2 Total Loss Absorbing Capacity (TLAC):

The Federal Reserve Board requires IHCs of foreign global systematically important banks (GSIBs) to issue to their foreign parents Total Loss Absorbing Capacity (TLAC) debt, which can be written-off or converted to equity, if needed to facilitate an orderly resolution.

Changes in LCR

As provided above in Table 1, the Firm's average LCR for three months ended March 31, 2019 was 18,418% which represents a strong average LCR position and well above the required minimum of 100%. The average LCR for the quarter ended March 31, 2019 increased to 18,418% compared to an average LCR of 9,005% for the quarter ended December 31, 2018 primarily due to an increase in average HQLA which was mainly due to the full quarter impact of Euro 100 million in sovereign bonds added at the end of December 2018.

An additional factor contributing to the increase in LCR for the three months ended March 31, 2019, was a reduction in total net cash outflows, primarily driven by lower maturity mismatch add-on in Q1'19 due to fewer maturing time deposits.

Composition of eligible HQLA

HQLA represents the sum of eligible Level 1 liquid assets, Level 2A liquid assets, and Level 2B liquid assets, eligible for inclusion in the LCR after prescribed haircuts and asset composition limits. Eligible HQLA must also meet specific operational and general requirements, as prescribed under the LCR rule. Presently, in the HQLA portfolio the Firm only holds Level 1 liquid assets. Therefore, the Firm's liquidity buffer is entirely composed of Level 1 liquid assets.

The table below presents the daily weighted average amounts of the Firm's HQLA segregated into U.S. Treasuries and EU sovereign bonds for the three months ended March 31, 2019.

Table 2: High Quality Liquid assets

Average Weighted Amounts (\$ in millions)	Three months ended March 31, 2019
US Treasury Securities	261
EU Sovereign Bonds	114
Total Eligible Level 1 Assets	375

Other Liquidity Sources

The Firm holds a significant amount of cash with third party banks, only a portion of which is needed to meet ongoing operational needs of the Firm. As of March 31, 2019, the estimated amount of non-operating cash held by the Firm was \$220 million.

Additionally, the Firm holds seed investments, a portion of which could likely be liquidated quickly if needed, though they would not meet the requirements for HQLA.

Concentration of funding sources

The Firm does not take deposits, and is primarily funded through accumulated earnings from operations and the on-going receipt of management and advisory fees.

The Firm's primary activities, the collection of management and advisory fees and the payment of operating expenses, are not captured in LCR reporting. Rather, it is the Firm's balance sheet and off-balance sheet related inflows and outflows that are reported. Given the immaterial size of these flows versus flows from the Firm's operating activities, the LCR is expected to remain above target ratios even during severely adverse stress scenarios.

Other Outflows

The following table summarizes other outflows averaged over the three months ended March 31, 2019. Non-structured debt maturing in greater than 30 days, is calculated as 3% of the amount of non-structured debt with maturities of greater than 30 days. This Long-term debt is the Firm's TLAC debt issuance. The TLAC debt was issued in Euro and as a currency offset, we used the proceeds of the debt issuance to purchase Euro denominated sovereigns (HQLA eligible).

Other cash outflows is the amount of certain expense-related adjustments payable to a number of current and former clients.

Table 3: Other Outflows

Average Weighted Amounts (\$ in millions)	Three months ended March 31, 2019
Non-structured debt maturing in greater than 30 days (TLAC)	3.5
Other Cash Outflows	1.1
Total Other Funding Obligations	4.6

Derivatives exposure and potential collateral calls

Derivative transaction means a financial contract whose value is derived from the values of one or more underlying assets, reference rates, or indices of asset values or reference rates. The Firm currently uses derivative contracts including interest rate derivative contracts, exchange rate derivative contracts and equity derivative contracts.

The Firm enters into derivative contracts to hedge seed investments in funds managed by the Firm. These derivatives are executed through third parties, are generally exchange traded,

cleared through central clearing counterparties (CCPs), and generally any outstanding exposure / variance margin is settled daily with the executing brokerage firm. The Firm places initial margin with the broker for such derivative exposures. Under our existing derivative contracts, the credit rating of the Firm would not lead to a collateral call.

The following table summarizes derivatives related net cash outflows for the three months ended March 31, 2019.

Table 4: Derivatives

Average Weighted Amounts (\$ in millions)	Three months ended March 31, 2019
Net Outflow related to derivative exposures and other collateral requirements	3.4

Cash Inflows

On average over the quarter, the Firm had more inflows reported on the LCR than outflows. Allowable inflow amounts are capped at 75% of aggregate cash outflows to ensure that reporting entities hold a minimum HQLA of at least 25% of total cash outflows.

Cash inflows come primarily from the maturity of HQLA bonds, the liquidation of seed investments, dividends from seed and co-investments, interest from cash accounts and HQLA, maturing bank CDs, and the collection of fee receivables.

The following table summarizes the cash inflows.

Table 5: Cash Inflows

Average Weighted Amounts (\$ in millions)	Three months ended March 31, 2019
Securities cash inflow	0.4
Other cash inflow	23.3
Total Inflows	23.6

Liquidity Management

Liquidity risk is the risk arising from the potential inability to meet all payment obligations when they come due or only being able to meet these obligations at excessive costs. DWS USA Treasury is responsible for ensuring that the Firm can fulfill its payment obligations at all times and can manage liquidity and funding risks within its risk appetite.

To meet this objective, the Firm executes its liquidity management framework. The framework is comprised of six core elements – risk appetite, risk identification, risk measurement, risk monitoring, risk management and governance and oversight. These six elements of the liquidity management framework provide DWS USA Treasury the processes, tools and oversight to effectively manage the liquidity position of the Firm to meet its day-to-day payment obligations.

Treasury manages liquidity and funding in accordance with the DWS USA Corporation Board of Directors approved risk appetite across a range of relevant metrics and has a number of tools to monitor these and ensure compliance. In addition, Treasury works closely with Risk Management (RM) and the business to analyze and understand the underlying liquidity characteristics of the business portfolios. These parties are engaged in regular and frequent dialogue to understand changes in the Firm’s liquidity position arising from business activities and market conditions. Business metrics have been established to ensure the Firm operates within its overall liquidity and funding appetite.

Liquidity Risk Management Framework

The Risk Management (RM) function is an independent function operating as part of the second line of defense and is responsible for overseeing and evaluating the effectiveness of the liquidity risk management activities performed by DWS USA Treasury. Through executing on its oversight and validation activities, RM plays a key role in supporting the US Chief Risk Officer in overseeing and maintaining the liquidity risk management framework.

Treasury is mandated to manage the overall liquidity and funding position of the Firm. Risk Management acts as an independent control function and is responsible for reviewing the liquidity risk framework, proposing the risk appetite to the DWS U.S. Management Risk Committee and validating liquidity risk methodologies which are developed by Treasury to measure and manage the liquidity risk profile.

Senior members of the DWS U.S. Management Risk Committee (U.S. MRC) and the DWS U.S. Capital and Liquidity Management Committee (U.S. CLMC) receive daily liquidity reports containing LCR reporting, Cash Flow Forecasting and Liquidity Stress Testing, both of which are projected for one year.

Monthly, the U.S. CLMC and U.S. MRC are informed of performance against the risk metrics via a liquidity dashboard, which includes early warning indicators. The U.S. Chief Risk Officer also informs the Risk Committee of the DWS USA Corporation Board of Directors on progress during regular meetings. Escalations of any breaches of limits / thresholds are reported on a timely basis, and follow escalations paths as defined in the DWS USA Risk Appetite Statement.

Liquidity Stress Testing

Cash Flow Forecasting and Liquidity stress testing are the primary tools for measuring liquidity risk and evaluating the Firm's liquidity position. The Firm prepares both regulatory reporting (i.e., LCR) and internally designed stress tests. The internally designed stress tests are used to determine whether the current liquidity position is in line with the risk appetite and to set the liquidity buffer requirements and help to identify potential future liquidity shortfalls.

Internal stress testing models calculate the Firm's net liquidity position (i.e., measure net stress cash flows against liquidity buffers held) under three stress scenarios (Idiosyncratic loss event, Market downturn event and Combined Market / Idiosyncratic event).

Cash Flow Forecasting and Stress Testing is performed daily and assess the Firm's net liquidity position over the next year.

U.S. Quantitative Disclosures

The following table presents the Firm's average LCR and average un-weighted and weighted amount of HQLA, cash outflows and cash inflows for the quarter ended March 31, 2019.

Table 6:

For the quarter ended March 31, 2019 (\$ in millions)		Avg. Unweighted Amount	Avg. Weighted Amount
HIGH-QUALITY LIQUID ASSETS			
1	Total eligible high-quality liquid assets (HQLA), of which:	375.1	375.1
2	Eligible level 1 liquid assets	375.1	375.1
3	Eligible level 2A liquid assets		
4	Eligible level 2B liquid assets		
CASH OUTFLOW AMOUNTS			
5	Deposit outflow from retail customers and counterparties, of which:	-	-
6	Stable retail deposit outflow	-	-
7	Other retail funding outflow	-	-
8	Brokered deposit outflow	-	-
9	Unsecured wholesale funding outflow, of which:	-	-
10	Operational deposit outflow	-	-
11	Non-operational funding outflow	-	-
12	Unsecured debt outflow	-	-
13	Secured wholesale funding and asset exchange outflow	-	-
14	Additional outflow requirements, of which:	6.9	3.4
15	Outflow related to derivative exposures and other collateral requirements	6.9	3.4
16	Outflow related to credit and liquidity facilities including unconsolidated structured transactions and mortgage commitments	-	-
17	Other funding obligations outflow	116.9	4.6
18	Other contingent funding obligations outflow	-	-
19	TOTAL CASH OUTFLOW	123.9	8.0
CASH INFLOW AMOUNTS			
20	Secured lending and asset exchange cash inflow	-	-
21	Retail cash inflow	-	-
22	Unsecured wholesale cash inflow	-	-
23	Other cash inflows, of which:	114.9	23.6
24	Net derivative cash inflow	-	-
25	Securities cash inflow	61.0	0.4
26	Broker-dealer segregated account inflow	-	-
27	Other cash inflow	54.0	23.3
28	TOTAL CASH INFLOW	114.9	23.6
29	HQLA AMOUNT		375.1
30	TOTAL NET CASH OUTFLOW AMOUNT EXCLUDING THE MATURITY MISMATCH ADD-ON		2.01
31	MATURITY MISMATCH ADD-ON		0.03
32	TOTAL NET CASH OUTFLOW AMOUNT		2.04
33	LIQUIDITY COVERASGE RATIO (%)		18418%

Note: The initially published Liquidity Coverage Ratio was 16,696%. The revised ratio is shown above. The primary changes leading to the revised LCR were to Other Funding Obligations Outflow weighted amount (reduced by .1m), Securities Cash Inflows weighted amount (reduced by 60.6m) and Other Cash Inflow (reduced by 2.2m), along with increased average HQLA of 30.1m.