

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

مؤسسة النقد العربي السعودي

لمركز الرئاسي

إدارة السياسات البنكية



الرقم: _____

المرفقات: ٢٠

تعميم

المحترمون

السادة/

السلام عليكم ورحمة الله وبركاته،

الموضوع: تحديث تعليمات نسبة صافي التمويل المستقر (NSFR).

إحفاً لتعليمات المؤسسة الخاصة بنسبة صافي التمويل المستقر الصادرة بتعميم المؤسسة رقم ٣٦١٠٠٠٠٠٣٦٢٦٠ وتاريخ ١٤٣٦/١١/٨هـ، والتعميم رقم ٣٩١٠٠٠٠٠٥٩١٦٠ وتاريخ ١٤٣٩/٥/٢٢هـ المتضمن التحديث على التعليمات.

نفيدكم بإجراء تحديثات على هذه التعليمات (مرفق) لتتوافق مع أفضل الممارسات الدولية. وتؤكد المؤسسة على كافة البنوك والمصارف الالتزام بهذه التعليمات المحدثة اعتباراً من تاريخه.

وتقبلوا تحياتي،

بشرف

فهد بن إبراهيم الشثري

وكيل المحافظ للرقابة

نطاق التوزيع:

- البنوك والمصارف العاملة في المملكة



مؤسسة النقد العربي السعودي

Saudi Arabian Monetary Authority

Guidance Document Concerning BASEL III:
THE NET STABLE FUNDING RATIO
(NSFR) - Based on BCBS Document of
October 2014

General Department Of Banking Control
Banking Policy Department

June 2018

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1. Overview

This document presents SAMA's guidance document concerning the Net Stable Funding Ratio (NSFR), to promote a more resilient Saudi banking sector and is based on the BCBS document entitled "Basel III: The Net Stable Funding Ratio" of October 2014. The NSFR requires banks to maintain a stable funding profile in relation to the composition of their assets and off-balance sheet activities in order to reduce the likelihood that disruptions to a bank's regular sources of funding will erode its liquidity position in a way that would increase the risk of its failure and potentially lead to broader systemic stress. The NSFR limits overreliance on short-term wholesale funding, encourages better assessment of funding risk across all on- and off-balance sheet items, and promotes funding stability. This SAMA document sets out the NSFR standard and timeline for its implementation.

Maturity transformation performed by banks is a crucial part of financial intermediation that contributes to efficient resource allocation and credit creation. However, private incentives to limit excessive reliance on unstable funding of core (often illiquid) assets are weak. Just as banks may have private incentives to increase leverage, incentives arise for banks to expand their balance sheets, often very quickly, relying on relatively cheap and abundant short-term wholesale funding. Rapid balance sheet growth can weaken the ability of individual banks to respond to liquidity (and solvency) shocks when they occur, and can have systemic implications when banks fail to internalize the costs associated with large funding gaps. A highly interconnected financial system tends to exacerbate these spill overs.

During the early liquidity phase of the financial crisis starting in 2007, many banks – despite meeting the existing capital requirements – experienced difficulties because they did not prudently manage their liquidity. The crisis drove home the importance of liquidity to the proper functioning of financial markets and the banking sector. Prior to the crisis, asset markets were buoyant and funding was readily and cheaply available. The rapid reversal in market conditions showed how quickly liquidity can dry up and also how long it can take to come back. The banking system came under severe stress, which forced central banks to take action in support of both the functioning of money markets and, in some cases, individual institutions.

The difficulties experienced by some banks arose from failures to observe the basic principles of liquidity risk management. In response, SAMA in 2008 published Circular no. BCS 771 dated 5 December 2008 as the foundation of its liquidity framework.¹ The Circular offers detailed guidance on the risk management and supervision of funding liquidity risk and should help promote better risk management in this critical area, provided that they are fully implemented by banks and supervisors. SAMA will accordingly continue to monitor the implementation of these fundamental principles to ensure that banks in adhere to them.

¹ The Circular No. BCS 771, 5 December 2008 is available at www.sama.gov.sa



SAMA has participated in BCBS work to further strengthen its liquidity framework by developing two *minimum* standards for funding and liquidity. These standards are designed to achieve two separate but complementary objectives. The first is to promote the short-term resilience of a bank's liquidity risk profile by ensuring that it has sufficient high-quality liquid assets (HQLA) to survive a significant stress scenario lasting for 30 days, known as the liquidity coverage ratio (LCR). To that end, SAMA has implemented the liquidity coverage ratio (LCR).² The second objective is to reduce funding risk over a longer time horizon by requiring banks to fund their activities with sufficiently stable sources of funding in order to mitigate the risk of future funding stress, known as the net stable funding ratio (NSFR), which SAMA has also implemented.

In addition to the LCR and NSFR standards, the minimum quantitative standards that banks must comply with, SAMA, as a BCBS member, has participated in developing a set of liquidity risk monitoring tools to measure other dimensions of a bank's liquidity and funding risk profile. These tools promote global consistency in supervising ongoing liquidity and funding risk exposures of banks, and in communicating these exposures to home and host supervisors. Although currently defined in the following SAMA guidelines, Circular No: 341000107020 Date: 1434/09/02H (10 July 2013G), Subject: SAMA's Finalized Guidance and Prudential Returns Concerning Amended Liquidity Coverage Ratio (LCR) based on BCBS Amendments of January 2013 and Circular No.: 351000147086 Dated: 24 September 2014, Subject: SAMA's Implementation of Monitoring Tools in Conjunction with the Amended LCR, these tools are supplementary to both the LCR and the NSFR. In this regard, the contractual maturity mismatch metric, particularly the elements that take into account assets and liabilities with residual maturity of more than one year, should be considered as a valuable monitoring tool to complement the NSFR.

In 2010, BCBS members agreed to review the development of the NSFR over an observation period. The focus of this review was on addressing any unintended consequences for financial market functioning and the economy, and on improving its design with respect to several key issues, notably: (i) the impact on retail business activities; (ii) the treatment of short-term matched funding of assets and liabilities; and (iii) analysis of sub-one year buckets for both assets and liabilities.

In line with the timeline specified in the Circular #361000141528 dated 24 August 2015,³ the NSFR has become a minimum standard on 1 January 2016.

² See SAMA's Finalized Guidance and Prudential Returns Concerning Amended Liquidity Coverage Ratio (LCR) based on BCBS Amendments, January 2013, issued vide SAMA guidelines, Circular No: 341000107020 Date: 1434/09/02H (10 July 2013G) www.sama.gov.sa

³ See Circular No. 361000141528, 24 August 2015, www.sama.gov.sa



2. Frequency of calculation and reporting

Banks are expected to meet the NSFR requirement on an ongoing basis. The NSFR should be reported at least quarterly. The time lag in reporting should not surpass the allowable time lag under the Basel capital standards.

3. Scope of application

The application of the NSFR requirement in this document follows the scope of application set out in Regulation No. 1 Circular No: BCS 290 Date: 12 June, 2006, Title "Basel II – SAMA's Detailed Guidance Document relating to Pillar 1, June 2006 "Subsection: 2. Scope of Application of Basel II and Other Significant Items and SAMA Basel II Prudential Returns - circular # BCS 180 dated 22 March 2007.⁴The NSFR should be applied to all internationally active banks on a consolidated basis, but may be used for other banks and on any subset of entities of internationally active banks as well to ensure greater consistency and a level playing field between domestic and cross-border banks.

Regardless of the scope of application of the NSFR, in line with Principle 6 as outlined in Circular #BCS 771 dated 5 December 2008, a bank should actively monitor and control liquidity risk exposures and funding needs at the level of individual legal entities, foreign branches and subsidiaries, and the group as a whole, taking into account legal, regulatory and operational limitations to the transferability of liquidity.

4. Minimum requirements and Other Guidance

The NSFR is defined as the amount of available stable funding relative to the amount of required stable funding. This ratio should be equal to at least 100% on an ongoing basis. "*Available stable funding*" is defined as the portion of capital and liabilities expected to be reliable over the time horizon considered by the NSFR, which extends to one year. The amount of such stable funding *required* ("Required stable funding") of a specific institution is a function of the liquidity characteristics and residual maturities of the various assets held by that institution as well as those of its off-balance sheet (OBS) exposures.

$$\frac{\text{Available amount of stable funding}}{\text{Required amount of stable funding}} \geq 100\%$$

The NSFR consists primarily of internationally agreed-upon definitions and calibrations. Some elements, however, remain subject to national discretion to reflect jurisdiction-specific conditions. In these cases, SAMA has explicitly and clearly outlined these in the regulation.

⁴ See Circular No. BCS 290, Title "Basel II – SAMA's Detailed Guidance Document relating to Pillar 1, June 2006, www.sama.gov.sa and SAMA Basel II Prudential Returns - circular # BCS 180 dated 22 March 2007



As a key component of the SAMA supervisory approach to funding risk, the NSFR will be supplemented by supervisory assessment work. SAMA may require an individual bank to adopt more stringent standards to reflect its funding risk profile and the SAMA assessment of its compliance with the *Sound Principles*.

The amounts of available and required stable funding specified in the standard are calibrated to reflect the presumed degree of stability of liabilities and liquidity of assets.

The calibration reflects the stability of liabilities across two dimensions:

- (a) *Funding tenor* – The NSFR is generally calibrated such that longer-term liabilities are assumed to be more stable than short-term liabilities.
- (b) *Funding type and counterparty* – The NSFR is calibrated under the assumption that short-term (maturing in less than one year) deposits provided by retail customers and funding provided by small business customers are behaviourally more stable than wholesale funding of the same maturity from other counterparties.

In determining the appropriate amounts of required stable funding for various assets, the following criteria were taken into consideration, recognizing the potential trade-offs between these criteria:

- (a) *Resilient credit creation* – The NSFR requires stable funding for some proportion of lending to the real economy in order to ensure the continuity of this type of intermediation.
- (b) *Bank behaviour* – The NSFR is calibrated under the assumption that banks may seek to roll over a significant proportion of maturing loans to preserve customer relationships.
- (c) *Asset tenor* – The NSFR assumes that some short-dated assets (maturing in less than one year) require a smaller proportion of stable funding because banks would be able to allow some proportion of those assets to mature instead of rolling them over.
- (d) *Asset quality and liquidity value* – The NSFR assumes that unencumbered, high-quality assets that can be securitized or traded, and thus can be readily used as collateral to secure additional funding or sold in the market, do not need to be wholly financed with stable funding.

Additional stable funding sources are also required to support at least a small portion of the potential calls on liquidity arising from OBS commitments and contingent funding obligations (Prudential Returns – 3).

NSFR definitions mirror those outlined in the LCR, unless otherwise specified. All references to LCR definitions or Paras/ text of LCR in this NSFR guidelines, refer to the definitions and Paras/ text in the LCR guidelines published by SAMA. If SAMA chooses to implement a more stringent definition in the LCR rules than those set out in the Basel Committee LCR standard, SAMA will inform banks whether to apply this stricter definition for the purposes of implementing the NSFR requirements in their jurisdiction.



5. GENERAL GUIDANCE

A. Definition of available stable funding

The amount of available stable funding (ASF) is measured based on the broad characteristics of the relative stability of an institution's funding sources, including the contractual maturity of its liabilities and the differences in the propensity of different types of funding providers to withdraw their funding. The amount of ASF is calculated by first assigning the carrying value of an institution's capital and liabilities to one of five categories as presented below. The amount assigned to each category is then multiplied by an ASF factor, and the total ASF is the sum of the weighted amounts. Carrying value represents the amount at which a liability or equity instrument is recorded before the application of any regulatory deductions, filters or other adjustments.

When determining the maturity of an equity or liability instrument, investors are assumed to redeem a call option at the earliest possible date. For funding with options exercisable at the bank's discretion, SAMA will take into account reputational factors that may limit a bank's ability not to exercise the option.⁵ In particular, where the market expects certain liabilities (e.g. Tier 2 sub debt) to be redeemed before their legal final maturity date, banks and SAMA will assume such behaviour for the purpose of the NSFR and include these liabilities in the corresponding ASF category. For long-dated liabilities, only the portion of cash flows falling at or beyond the six-month and one-year time horizons should be treated as having an effective residual maturity of six months or more and one year or more, respectively.

Calculation of derivative liability amounts

Derivative liabilities are calculated first based on the replacement cost for derivative contracts (obtained by marking to market) where the contract has a negative value. When an eligible bilateral netting contract is in place that meets the conditions as specified in Paragraph 20 of Circular No. 351000133367 dated 25th August 2014.⁶ the replacement cost for the set of derivative exposures covered by the contract will be the net replacement cost.

In calculating NSFR derivative liabilities, collateral posted in the form of variation margin in connection with derivative contracts, regardless of the asset type, must be deducted from the negative replacement cost amount.^{7, 8}

⁵ This could reflect a case where a bank may imply that it would be subject to funding risk if it did not exercise an option on its own funding.

⁶ See Circular No. 351000133367, August 2014, www.sama.gov.sa.

⁷ NSFR derivative liabilities = (derivative liabilities) – (total collateral posted as variation margin on derivative liabilities).

⁸ To the extent that the bank's accounting framework reflects on balance sheet, in connection with a derivative contract, an asset associated with collateral posted as variation margin that is deducted from the replacement cost amount for purposes of the NSFR, that asset should not be included in the calculation of a bank's required stable funding (RSF) to avoid any double-counting.



B. Definition of required stable funding for assets and off-balance sheet exposures

The amount of required stable funding is measured based on the broad characteristics of the liquidity risk profile of an institution's assets and OBS exposures. The amount of required stable funding is calculated by first assigning the carrying value of an institution's assets to the categories listed. The amount assigned to each category is then multiplied by its associated required stable funding (RSF) factor, and the total RSF is the sum of the weighted amounts added to the amount of OBS activity (or potential liquidity exposure) multiplied by its associated RSF factor. Definitions mirror those outlined in the LCR, unless otherwise specified.⁹

The RSF factors assigned to various types of assets are intended to approximate the amount of a particular asset that would have to be funded, either because it will be rolled over, or because it could not be monetized through sale or used as collateral in a secured borrowing transaction over the course of one year without significant expense. Under the standard, such amounts are expected to be supported by stable funding.

Assets should be allocated to the appropriate RSF factor based on their residual maturity or liquidity value. When determining the maturity of an instrument, investors should be assumed to exercise any option to extend maturity. SAMA and banks will assume such behaviour for the purpose of the NSFR and include these assets in the corresponding RSF category. For assets with options exercisable at the bank's discretion, SAMA will take into account reputational factors that may limit a bank's ability not to exercise the option.¹⁰ For amortizing loans, the portion that comes due within the one-year horizon can be treated in the less-than-one-year residual maturity category.

For purposes of determining its required stable funding, an institution should (i) include financial instruments, foreign currencies and commodities for which a purchase order has been executed, and (ii) exclude financial instruments, foreign currencies and commodities for which a sales order has been executed, even if such transactions have not been reflected in the balance sheet under a settlement-date accounting model, provided that (i) such transactions are not reflected as derivatives or secured financing transactions in the institution's balance sheet, and (ii) the effects of such transactions will be reflected in the institution's balance sheet when settled.

⁹ For the purposes of calculating the NSFR, HQLA are defined as all HQLA without regard to LCR operational requirements and LCR caps on Level 2 and Level 2B assets that may otherwise limit the ability of some HQLA to be included as eligible HQLA in calculation of the LCR. HQLA are defined in LCR paragraphs 24–68. Operational requirements are specified in LCR paragraphs 28–43. - Refer SAMA's Revised Amended Liquidity Coverage Ratio Regulations and Guidance Documents.- Attachment # 1, SAMA's General Guidance concerning Amended LCR.

¹⁰ This could reflect a case where a bank may imply that it would be subject to funding risk if it did not exercise an option on its own assets.

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Encumbered assets

Assets on the balance sheet that are encumbered¹¹ for one year or more receive a 100% RSF factor. Assets encumbered for a period of between six months and less than one year that would, if unencumbered, receive an RSF factor lower than or equal to 50% receive a 50% RSF factor. Assets encumbered for between six months and less than one year that would, if unencumbered, receive an RSF factor higher than 50% retain that higher RSF factor. Where assets have less than six months remaining in the encumbrance period, those assets may receive the same RSF factor as an equivalent asset that is unencumbered. In addition, for the purposes of calculating the NSFR, assets that are encumbered for exceptional¹² central bank liquidity operations may receive a reduced RSF factor. Please refer to the relevant FAQ¹³ issued by SAMA on RSF factor for assets encumbered under exceptional central bank liquidity operations.

Secured financing transactions

For secured funding arrangements, use of balance sheet and accounting treatments should generally result in banks excluding, from their assets, securities which they have borrowed in securities financing transactions (such as reverse repos and collateral swaps) where they do not have beneficial ownership. In contrast, banks should include securities they have lent in securities financing transactions where they retain beneficial ownership. Banks should also not include any securities they have received through collateral swaps if those securities do not appear on their balance sheets. Where banks have encumbered securities in repos or other securities financing transactions, but have retained beneficial ownership and those assets remain on the bank's balance sheet, the bank should allocate such securities to the appropriate RSF category.

Securities financing transactions with a single counterparty may be measured net when calculating the NSFR, provided that the netting conditions set out in Paragraph 32 of the Circular No. 351000133367, titled "Basel Committee on Banking Supervision Document regarding Basel III Leverage Ratio Framework and Disclosure Requirements based on BCBS document regarding Basel III Leverage Ratio framework issued on 12 January 2014", dated 25th August 2014 document are met.

¹¹ Encumbered assets include but are not limited to assets backing securities or covered bonds and assets pledged in securities financing transactions or collateral swaps. "Unencumbered" is defined in LCR paragraph 31. Refer SAMA's Revised Amended Liquidity Coverage Ratio Regulations and Guidance Documents.- Attachment # 1, SAMA's General Guidance concerning Amended LCR.

¹² In general, exceptional central bank liquidity operations are considered to be non-standard, temporary operations conducted by the central bank in order to achieve its mandate in a period of market-wide financial stress and/or exceptional macroeconomic challenges.

¹³ Please refer to the FAQ issued by SAMA.



Calculation of derivative asset amounts

Derivative assets are calculated first based on the replacement cost for derivative contracts (obtained by marking to market) where the contract has a positive value. When an eligible bilateral netting contract is in place that meets the conditions as specified in paragraphs 20 of the Circular No. 351000133367, titled "Basel Committee on Banking Supervision Document regarding Basel III Leverage Ratio Framework and Disclosure Requirements based on BCBS document regarding Basel III Leverage Ratio framework issued on 12 January 2014", dated 25th August 2014, the replacement cost for the set of derivative exposures covered by the contract will be the net replacement cost.

In calculating NSFR derivative assets, collateral received in connection with derivative contracts may not offset the positive replacement cost amount, regardless of whether or not netting is permitted under the bank's operative accounting or risk-based framework, unless it is received in the form of cash variation margin and meets the conditions as specified in paragraph 24 of the Circular No. 351000133367, titled "Basel Committee on Banking Supervision Document regarding Basel III Leverage Ratio Framework and Disclosure Requirements based on BCBS document regarding Basel III Leverage Ratio framework issued on 12 January 2014", dated 25th August 2014.¹⁴ Any remaining balance sheet liability associated with (a) variation margin received that does not meet the criteria above or (b) initial margin received may not offset derivative assets and should be assigned a 0% ASF factor.

6. SPECIFIC GUIDANCE – Liabilities and Capital

Liabilities and capital instruments receiving a 100% ASF factor comprise:

- (a) the total amount of regulatory capital, before the application of capital deductions, as defined in Page 7 of Section A – Finalized guidance document concerning the implementation of Basel III, 2012 (also reproduced in Appendix – A for the convenience of the reader),¹⁵ excluding the proportion of Tier 2 instruments with residual maturity of less than one year;
- (b) the total amount of any capital instrument not included in (a) that has an effective residual maturity of one year or more, but excluding any instruments with explicit or embedded options that, if exercised, would reduce the expected maturity to less than one year; and
- (c) The total amount of secured and unsecured borrowings and liabilities (including term deposits) with effective residual maturities of one year or more. Cash flows falling below the one-year horizon but arising from liabilities with a final maturity greater than one year do not qualify for the 100% ASF factor.

¹⁴ NSFR derivative assets = (derivative assets) – (cash collateral received as variation margin on derivative assets).

¹⁵ Capital instruments reported here should meet all requirements outlined in Section A – Finalized guidance document concerning the implementation of Basel III, 2012, and should only include amounts after transitional arrangements have expired under fully implemented Basel III standards (i.e. as in 2022).

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Liabilities receiving a 95% ASF factor comprise “stable” (as defined in the LCR in paragraphs 75–78 - Attachment # 1, SAMA's General Guidance concerning Amended LCR.) non-maturity (demand) deposits and/or term deposits with residual maturities of less than one year provided by retail and small business customers.¹⁶

Liabilities receiving a 90% ASF factor comprise “less stable” (as defined in the LCR in paragraphs 79–81 - Attachment # 1, SAMA's General Guidance concerning Amended LCR.) non-maturity (demand) deposits and/or term deposits with residual maturities of less than one year provided by retail and small business customers.

Liabilities receiving a 50% ASF factor comprise:

- (a) funding (secured and unsecured) with a residual maturity of less than one year provided by non-financial corporate customers;
- (b) operational deposits (as defined in LCR paragraphs 93–104, Attachment # 1, SAMA's General Guidance concerning Amended LCR);
- (c) funding with residual maturity of less than one year from sovereigns, public sector entities (PSEs), and multilateral and national development banks; and
- (d) other funding (secured and unsecured) not included in the categories above with residual maturity between six months to less than one year, including funding from central banks and financial institutions.

Liabilities receiving a 0% ASF factor comprise:

- (a) all other liabilities and equity categories not included in the above categories, including other funding with residual maturity of less than six months from central banks and financial institutions;¹⁷
- (b) Other liabilities without a stated maturity. This category may include short positions and open maturity positions. Two exceptions can be recognized for liabilities without a stated maturity:
 - first, deferred tax liabilities, which should be treated according to the nearest possible date on which such liabilities could be realized;
 - Second, minority interest, which should be treated according to the term of the instrument, usually in perpetuity.

These liabilities would then be assigned either a 100% ASF factor if the effective maturity is one year or greater, or 50%, if the effective maturity is between six months and less than one year;

¹⁶ Retail deposits are defined in LCR paragraph 73. Small business customers are defined in LCR paragraph 90 and 91. Refer Attachment # 1, SAMA's General Guidance concerning Amended LCR.

¹⁷ SAMA has not adopted the discretion specified by the Basel Committee in terms of certain deposits i.e. deposits between banks within the same cooperative network can be excluded from liabilities receiving a 0% ASF provided they are either (a) required by law in some jurisdictions to be placed at the central organization and are legally constrained within the cooperative bank network as minimum deposit requirements, or (b) in the context of common task sharing and legal, statutory or contractual arrangements, so long as the bank that has received the monies and the bank that has deposited participate in the same institutional network's mutual protection scheme against illiquidity and insolvency of its members. Such deposits can be assigned an ASF up to the RSF factor assigned by regulation for the same deposits to the depositing bank, not to exceed 85%.



- (c) NSFR derivative liabilities as calculated according to **item # 5 of this document titled "General Guidance Section A: Definition of Available Stable Funding"**, and Net of NSFR derivative assets as calculated according to **item # 5 of this document Section B definition of "Required Stable Funding" paragraphs entitled "Calculations of Derivative assets amount**, if NSFR derivative liabilities are greater than NSFR derivative assets;¹⁸ and
- (d) "trade date" payables arising from purchases of financial instruments, foreign currencies and commodities that (i) are expected to settle within the standard settlement cycle or period that is customary for the relevant exchange or type of transaction, or (ii) have failed to, but are still expected to, settle.

Note: Prudential return 1 (refer prudential return section of this document) summarises the components of each of the ASF categories and the associated maximum ASF factor to be applied in calculating an institution's total amount of available stable funding under the standard.

7. SPECIFIC GUIDANCE NOTES - Assets

Assets assigned a 0% RSF factor comprise:

- (a) coins and banknotes immediately available to meet obligations;
- (b) all central bank reserves (including required reserves and excess reserves);¹⁹
- (c) all claims on central banks with residual maturities of less than six months; and
- (d) "trade date" receivables arising from sales of financial instruments, foreign currencies and commodities that (i) are expected to settle within the standard settlement cycle or period that is customary for the relevant exchange or type of transaction, or (ii) have failed to, but are still expected to, settle.

Assets assigned a 5% RSF factor comprise unencumbered Level 1 assets as defined in LCR paragraph 50, Attachment # 1, SAMA's General Guidance concerning Amended LCR, excluding assets receiving a 0% RSF as specified above, and including:

- marketable securities representing claims on or guaranteed by sovereigns, central banks, PSEs, the Bank for International Settlements, the International Monetary Fund, the European Central Bank and the European Community, or multilateral development banks that are assigned a 0% risk weight under the Basel II standardized approach for

¹⁸ $ASF = 0\% \times \text{MAX} ((\text{NSFR derivative liabilities} - \text{NSFR derivative assets}), 0)$.

¹⁹ It should be noted that no central bank reserves mandated by SAMA (either required reserves or excess reserves) require RSF factor greater than 0%.



credit risk - Basel II – SAMA's Detailed Guidance Document relating to Pillar 1, June 2006 and as specified by BCBS and SAMA in future; and

- Certain non-0% risk-weighted sovereign or central bank debt securities as specified in the LCR.

Assets assigned a 10% RSF factor comprise unencumbered loans to financial institutions with residual maturities of less than six months, where the loan is secured against Level 1 assets as defined in LCR paragraph 50, Attachment # 1, SAMA's General Guidance concerning Amended LCR, and where the bank has the ability to freely re-hypothecate the received collateral for the life of the loan.

Assets assigned a 15% RSF factor comprise:

- (a) unencumbered Level 2A assets as defined in LCR paragraph 52, Attachment # 1, SAMA's General Guidance concerning Amended LCR, including:
 - marketable securities representing claims on or guaranteed by sovereigns, central banks, PSEs or multilateral development banks that are assigned a 20% risk weight under the Basel II standardized approach for credit risk Basel II – SAMA's Detailed Guidance Document relating to Pillar 1, June 2006; and
 - corporate debt securities (including commercial paper) and covered bonds with a credit rating equal or equivalent to at least AA–;
- (b) All other unencumbered loans to financial institutions with residual maturities of less than six months not included in "Assets assigned a 10% FSF factor" in the previous page.

Assets assigned a 50% RSF factor comprise:

- (a) unencumbered Level 2B assets as defined and subject to the conditions set forth in LCR paragraph 54, Attachment # 1, SAMA's General Guidance concerning Amended LCR, including:
 - residential mortgage-backed securities (RMBS) with a credit rating of at least AA;
 - corporate debt securities (including commercial paper) with a credit rating of between A+ and BBB–; and
 - exchange-traded common equity shares not issued by financial institutions or their affiliates;

Note: Level 2B Assets have not been adopted for NSFR purposes and hence any securities that do not qualify for Level 1 or Level 2A Assets under LCR guidelines issued by SAMA – need to be classified under securities that do not meet the definition of HQLA and therefore no securities should be classified under Level 2B HQLA, whilst computing NSFR or disclosing the same.



- (b) any HQLA as defined in the LCR that are encumbered for a period of between six months and less than one year;
- (c) all loans to financial institutions and central banks with residual maturity of between six months and less than one year; and
- (d) deposits held at other financial institutions for operational purposes, as outlined in LCR paragraphs 93–104, Attachment # 1, SAMA's General Guidance concerning Amended LCR, that are subject to the 50% ASF factor of this document; and
- (e) all other non-HQLA not included in the above categories that have a residual maturity of less than one year, including loans to non-financial corporate clients, loans to retail customers (i.e. natural persons) and small business customers, and loans to sovereigns and PSEs.

Assets assigned a 65% RSF factor comprise:

- (a) unencumbered residential mortgages with a residual maturity of one year or more that would qualify for a 35% or lower risk weight under the Basel II standardized approach for credit risk – Currently SAMA does not allow at RWA of 35% or less for residential mortgage; and
- (b) other unencumbered loans not included in the above categories, excluding loans to financial institutions, with a residual maturity of one year or more that would qualify for a 35% or lower risk weight under the Basel II standardized approach for credit risk - Basel II – SAMA's Detailed Guidance Document relating to Pillar 1, June 2006.

Assets assigned an 85% RSF factor comprise:

- (a) Cash, securities or other assets posted as initial margin for derivative contracts²⁰ and cash or other assets provided to contribute to the default fund of a central counterparty (CCP). Where securities or other assets posted as initial margin for derivative contracts would otherwise receive a higher RSF factor, they should retain that higher factor.
- (b) other unencumbered performing loans²¹ that do not qualify for the 35% or lower risk weight under the Basel II standardized approach (Basel II – SAMA's Detailed Guidance Document relating to Pillar 1, June 2006) for credit risk and have residual maturities of one year or more, excluding loans to financial institutions;
- (c) unencumbered securities with a remaining maturity of one year or more and exchange-traded equities, that are not in default and do not qualify as HQLA according to the LCR; and
- (d) Physical traded commodities, including gold.

Assets assigned a 100% RSF factor comprise:

- (a) All assets that are encumbered for a period of one year or more;

²⁰ Initial margin posted on behalf of a customer, where the bank does not guarantee performance of the third party, would be exempt from this requirement.

²¹ Performing loans are considered to be those that are not past due for more than 90 days in accordance with page 23 and 24 of the Basel II standardized approach (Basel II – SAMA's Detailed Guidance Document relating to Pillar 1, June 2006). Conversely, non-performing loans are considered to be loans that are more than 90 days past due.

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- (b) NSFR derivative assets as calculated according to **item # 5** of this document **Section B** definition of "Required Stable Funding" paragraphs entitled "Calculations of Derivative assets amount, Net of NSFR derivative liabilities as calculated according to **item # 5** titled "General Guidance **Section A: Definition of Available Stable Funding**", if NSFR derivative assets are greater than NSFR derivative liabilities;²²
- (c) all other assets not included in the above categories, including non-performing loans, loans to financial institutions with a residual maturity of one year or more, non-exchange-traded equities, fixed assets, items deducted from regulatory capital, retained interest, insurance assets, subsidiary interests and defaulted securities; and
- (d) 20% of derivative liabilities (i.e. negative replacement cost amounts) as calculated according to **General Guidance Section A "Definition of Available Stable Funding" (item # 5)**, (before deducting variation margin posted).

Note: Prudential return 2 (refer prudential return section of this document) summarises the specific types of assets to be assigned to each asset category and their associated RSF factor.

The NSFR assigns a 20% "required stable funding" factor to derivative liabilities. Although the Basel Committee has agreed that, at national discretion, jurisdictions may lower the value of this factor, with a floor of 5%, SAMA has decided not to exercise this discretion.

8. Interdependent assets and liabilities

With regard to this section, SAMA in consultation with Banks through multilateral and bilateral meetings will provide the necessary Required Stable Funding factor.

SAMA may, in limited circumstances, determine whether certain asset and liability items, on the basis of contractual arrangements, are interdependent such that the liability cannot fall due while the asset remains on the balance sheet, the principal payment flows from the asset cannot be used for something other than repaying the liability, and the liability cannot be used to fund other assets. For interdependent items, SAMA may adjust RSF and ASF factors so that they are both 0%, subject to the following criteria:

- The individual interdependent asset and liability items must be clearly identifiable.
- The maturity and principal amount of both the liability and its interdependent asset should be the same.
- The bank is acting solely as a pass-through unit to channel the funding received (the interdependent liability) into the corresponding interdependent asset.

²² $RSF = 100\% \times \text{MAX} ((\text{NSFR derivative assets} - \text{NSFR derivative liabilities}), 0)$.



- The counterparties for each pair of interdependent liabilities and assets should not be the same.

Before exercising this discretion, SAMA will consider whether perverse incentives or unintended consequences are being created.

Please note that based on assessment, SAMA has decided not to exercise its discretion to apply any exceptional treatment to interdependent assets and liabilities.

9. Off-balance sheet exposures

Many potential OBS liquidity exposures require little direct or immediate funding but can lead to significant liquidity drains over a longer time horizon. The NSFR assigns an RSF factor to various OBS activities in order to ensure that institutions hold stable funding for the portion of OBS exposures that may be expected to require funding within a one-year horizon.

Consistent with the LCR, the NSFR identifies OBS exposure categories based broadly on whether the commitment is a credit or liquidity facility or some other contingent funding obligation. Table 3 identifies the specific types of OBS exposures to be assigned to each OBS category and their associated RSF factor.



Net Stable Funding Ratio
PRUDENTIAL RETURNS

June 2018

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Prudential Returns – 1

Summary of liability categories and associated ASF factors

Table 1 below summarizes the components of each of the ASF categories and the associated maximum ASF factor to be applied in calculating an institution's total amount of available stable funding under the standard.

Table 1

	Components of ASF category	ASF factor	RAW Amount	Amount of Available Stable Funding
1	Total regulatory capital (excluding Tier 2 instruments with residual maturity of less than one year)	100%		
2	Other capital instruments and liabilities with effective residual maturity of one year or more	100%		
3	Stable non-maturity (demand) deposits and term deposits with residual maturity of less than one year provided by retail and small business customers	95%		
4	Less stable non-maturity deposits and term deposits with residual maturity of less than one year provided by retail and small business customers	90%		
5	Funding with residual maturity of less than one year provided by non-financial corporate customers	50%		
6	Operational deposits	50%		
7	Funding with residual maturity of less than one year from sovereigns, PSEs, and multilateral and national development Banks	50%		
8	Other funding with residual maturity between six months and less than one year not included in the above categories, including funding provided by central banks and financial institutions	50%		
9	All other liabilities and equity not included in the above categories, including liabilities without a stated maturity (with a specific treatment for deferred tax liabilities and minority interests)	0%		
10	NSFR derivative liabilities net of NSFR derivative assets if NSFR derivative liabilities are greater than NSFR derivative assets	0%		
11	"Trade date" payables arising from purchases of financial instruments, foreign currencies and commodities	0%		
	Total Amount of Available Stable Funding			XXX

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Prudential Returns – 2

Summary of assets categories and associated ASF factors

Table 2 summarizes the specific types of assets to be assigned to each asset category and their associated RSF factor.

Table 2

	Components of RSF category	RSF factor	RAW Amount	Required Stable Funding Amount
1.	Coins and banknotes	0%		
2.	All central bank reserves	0%		
3.	All claims on central banks with residual maturities of less than six months	0%		
4.	"Trade date" receivables arising from sales of financial instruments, foreign currencies and commodities.	0%		
5.	Unencumbered Level 1 assets, excluding coins, banknotes and central bank reserves.	5%		
6.	Unencumbered loans to financial institutions with residual maturities of less than six months, where the loan is secured against Level 1 assets as defined in LCR paragraph 50, (Attachment # 1, SAMA's General Guidance concerning Amended LCR.) and where the bank has the ability to freely rehypothecate the received collateral for the life of the loan	10%		
7.	All other unencumbered loans to financial institutions with residual maturities of less than six months not included in the above categories	15%		
8.	Unencumbered Level 2A assets	15%		
9.	Unencumbered Level 2B assets (Note: Level 2B Assets have not been adopted for NSFR purposes and hence any securities that do not qualify for Level 1 or Level 2A Assets under LCR guidelines issued by SAMA – need to be classified under securities that do not meet the definition of HQLA and therefore no securities should be classified under Level 2B HQLA, whilst computing NSFR or disclosing the same.)	50%		
10.	HQLA encumbered for a period of six months or more and less than one year.	50%		
11.	Loans to financial institutions and central banks with residual maturities between six months and less than one year	50%		
12.	Deposits held at other financial institutions for operational purposes	50%		
13.	All other assets not included in the above categories with residual maturity of less than one year, including loans to non-financial corporate clients, loans to retail and small business customers, and loans to sovereigns and PSEs	50%		
14.	Unencumbered residential mortgages with a residual maturity of one year or more and with a risk weight of less than or equal to 35% under the Standardized Approach	65%		
15.	Other unencumbered loans not included in the above categories, excluding loans to financial institutions, with a residual maturity of one year or more and with a risk weight of less than or equal to 35% under the standardized approach	65%		
16.	Cash, securities or other assets posted as initial margin for derivative contracts and cash or other assets provided to contribute to the default fund of a CCP	85%		
17.	Other unencumbered performing loans with risk weights greater than 35% under the standardized approach and residual maturities of one year or more, excluding loans to financial institutions	85%		
18.	Unencumbered securities that are not in default and do not qualify as HQLA with a remaining maturity of one year or more and exchange-traded equities	85%		
19.	Physical traded commodities, including gold	85%		
20.	All assets that are encumbered for a period of one year or more	100%		
21.	NSFR derivative assets net of NSFR derivative liabilities if NSFR derivative assets are greater than NSFR derivative liabilities.	100%		
22.	20% of derivative liabilities as calculated according to "Calculation of derivative liability amounts" of this guidelines, Page 6 and 7	100%		
23.	All other assets not included in the above categories, including non-performing loans, loans to financial institutions with a residual maturity of one year or more, non-exchange-traded equities, fixed assets, items deducted from regulatory capital, retained interest, insurance assets, subsidiary interests and defaulted securities	100%		
	Total Amount of Required Stable Funding			xxx

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Prudential Returns - 3

Summary of Off-Balance Sheet categories and associated RSF factors

Table 3

RSF category	RSF factor	RAW Amount	Amount of Required Stable Funding
Irrevocable and conditionally revocable credit and liquidity facilities to any client	5% of the currently undrawn portion		
Other contingent funding obligations, including products and instruments such as: <ul style="list-style-type: none"> • Unconditionally revocable credit and liquidity facilities • Trade finance-related obligations (including guarantees and letters of credit) • Guarantees and letters of credit unrelated to trade finance obligations • Non-contractual obligations such as: <ul style="list-style-type: none"> – potential requests for debt repurchases of the bank’s own debt or that of related conduits, securities investment vehicles and other such financing facilities – structured products where customers anticipate ready marketability, such as adjustable rate notes and variable rate demand notes (VRDNs) – managed funds that are marketed with the objective of maintaining a stable value 	SAMA has set the RSF factor AT 0% based on current national circumstances. ²³		
Total Amount of Required Stable Funding			Xxx

²³ SAMA in consultation with banks will provide the appropriate RSF factors.

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Prudential Template - 4

The NSFR is defined as the amount of available stable funding relative to the amount of required stable funding. This ratio should be equal to at least 100% on an ongoing basis. "Available stable funding" is defined as the portion of capital and liabilities expected to be reliable over the time horizon considered by the NSFR, which extends to one year. The amount of such stable funding required ("Required stable funding") of a specific institution is a function of the liquidity characteristics and residual maturities of the various assets held by that institution as well as those of its off-balance sheet (OBS) exposures.

$$\frac{\text{Available amount of stable funding}}{\text{Required amount of stable funding}} > 100\%$$