

LIQUIDITY EXERCISE – PLANNING FOR A STRESS EVENT

Example Credit Union

City, State

Because it is a collateralized funding source, FHLBank advances may be available to fund the balance sheet after other sources of near-core and non-core funding have dried up, making advances an important contingency funding source. It is generally believed FHLBank borrowings will be one of the last to terminate in stress conditions, so **FHLBank advances should be a key ingredient in a contingency funding plan**. Contingency funding plans include early warning indicators and triggers, the identification of contingency funding sources and the testing and documentation of those contingency funding sources. Ongoing measuring, monitoring and analysis of liquidity and liquidity stress events are essential elements of liquidity planning and management. A comprehensive contingency funding plan should sufficiently address potential adverse events and emergency cash flow requirements.

Planning for contingent liquidity stress events includes the following:

- Identify potential events
- Evaluate probability and impact
- Determine stress event time horizon
- Document stress scenarios and assessment
- Review potential events and scenarios annually and update

Proactively managing potential challenges that may arise should take into consideration the impact on future earnings, liquidity risk and share/deposit migration. A liquidity crisis or shortfall can result in lost business opportunity, a competitive disadvantage, lost revenue from increased costs associated with paying up for deposits or emergency funding facilities or your charter? It is imperative to validate your liquidity and funding strategies through documentation of stress test results.

Ask your Regional Account Manager for example near- and non-core funding sources and limits worksheets and/or stress scenario worksheets to build documentation and support for your liquidity and funding strategy.

Stress Scenario Assumptions

Adjusted Liquid Assets and Scenario Balances (\$000s)				
	Current	Low	Moderate	High
Cash on Hand	\$ 15,000	\$ 15,000	\$ 15,000	\$ 15,000
Cash on Deposit	50,000	50,000	50,000	50,000
Other Deposits	-	-	-	-
Plus: AFS Securities (Market Value)	35,000	35,000	35,000	35,000
Plus: HTM Securities (Cost Basis)	4,000	4,000	4,000	4,000
Plus: Other Securities	-	-	-	-
Plus: Deposits in Banks, Thrifts and Credit Unions	-	-	-	-
Plus: Loans Held for Sale	1,000	1,000	1,000	1,000
Less: Investment Securities Maturing <= 12 mos	-	3,000	3,000	3,000
Total Adjusted Liquid Assets	\$ 105,000	\$ 102,000	\$ 102,000	\$ 102,000

Stress Scenario Assumptions - Growth/Retention/Runoff (within 12 months)				
	Balance	Low	Moderate	High
Sources/Inflows of Funds				
Maturing Share Certificates Renew %	\$ 115,000	80.0%	40.0%	20.0%
Other Share/Deposits Renew % <i>(IRA/KEOGH accounts and other shares)</i>	15,000	80.0%	40.0%	20.0%
Uses/Outflows of Funds				
Non-Maturity Accounts <i>(share drafts, regular shares, MMDAs)</i>	\$ 370,000	2.5%	5.0%	10.0%
Nonmember Deposits Runoff	10,000	0.0%	10.0%	20.0%
Loan Growth - Last Twelve Months %	5.0%	5.0%	5.0%	5.0%
Maturing Loan Renewal % (< 12 mos)	75,000	70.0%	75.0%	80.0%
<i>(call report line item Real Estate Loans Reprice/Mature in 5 years, update with member input for < 1 yr maturing)</i>				
Total Off BS Commitments - Draws	90,000	0.0%	10.0%	20.0%

Stress Scenario Cash Flow Analysis & Ratio Impact

Cash Flow (within 12 months) (\$000s)			
	Low	Moderate	High
Sources/Inflows of Funds			
Investment & Loan Maturities:			
Securities Maturing	\$ 3,000	\$ 3,000	\$ 3,000
Time, Other Deposits and Other Investments Maturing	-	-	-
Real Estate Loans Maturing <i>(see note in assumptions box)</i>	75,000	75,000	75,000
Total Investments & Loans Maturing	\$ 78,000	\$ 78,000	\$ 78,000
Deposit Inflows:			
Maturing Share Certificates Renewals	\$ 92,000	\$ 46,000	\$ 23,000
Maturing Other Share/Deposits Renewals	12,000	6,000	3,000
Total Sources/Inflows of Funds	\$ 182,000	\$ 130,000	\$ 104,000
Uses/Outflows of Funds			
Share/Deposit Outflows (Maturing/Runoff):			
Non-Maturity Deposit Runoff	\$ 9,250	\$ 18,500	\$ 37,000
Share Certificates Maturing	115,000	115,000	115,000
Other Shares/Deposits Maturing	15,000	15,000	15,000
Nonmember Deposits Runoff	-	1,000	2,000
Total Deposit Outflow	\$ 139,250	\$ 149,500	\$ 169,000
Borrowings Maturities:			
FHLBank Term Advance Maturities	\$ 10,000	\$ 10,000	\$ 10,000
Other Borrowing Maturities	-	-	-
Total Borrowings Maturing	\$ 10,000	\$ 10,000	\$ 10,000
Other Outflows:			
Real Estate Loan Renewals	\$ 52,500	\$ 56,250	\$ 60,000
Loan Growth	25,500	25,500	25,500
Advances on Unused Commitments	-	9,000	18,000
Total Other Outflows	\$ 78,000	\$ 90,750	\$ 103,500
Total Uses/Outflows of Funds	\$ 227,250	\$ 250,250	\$ 282,500
Net Scenario Cash Flow	\$ (45,250)	\$ (120,250)	\$ (178,500)

Net Adjusted Liquid Assets - Stressed (\$000s)			
	Low	Moderate	High
Adjusted Liquid Assets Before Stress	\$ 102,000	\$ 102,000	\$ 102,000
Accumulated and Other Unrealized Items	(6,000)	(6,000)	(6,000)
Net Scenario Cash Flow	(45,250)	(120,250)	(178,500)
Liquid Assets After Stress	50,750	(24,250)	(82,500)

FHLBank Borrowing Capacity (\$000s)			
	Low	Moderate	High
Current FHLBank Credit Obligations	\$ 30,000	\$ 30,000	\$ 30,000
Less: FHLBank Term Advance Maturities	10,000	10,000	10,000
Projected FHLBank Credit Obligations	\$ 20,000	\$ 20,000	\$ 20,000
Plus: Stressed Liquidity Need (Net Scenario Cash Flow)	45,250	120,250	178,500
Required FHLBank Borrowing Capacity	65,250	140,250	198,500
Current Pledged Collateral (Lending Value)	75,000	75,000	75,000
Current Excess Collateral (Shortfall)	\$ 9,750	\$ (65,250)	\$ (123,500)
FHLBank Borrowing Capacity:			
Percent of Assets Limit	40%	\$ 262,000	\$ 262,000
Additional Collateral to Pledge	187,000	187,000	187,000
Stressed FHLBank Collateral Utilization	87.00%	187.00%	264.67%
Additional Collateral Required to Fill Need	\$ -	\$ 65,250	\$ 123,500
Collateral Available to Cover Need?			
Yes	Yes	Yes	Yes
Excess Collateral (Shortfall)	\$ 187,000	\$ 121,750	\$ 63,500

Indicates how much additional collateral may be required to meet contingency liquidity needs in a stressed environment.

Current and Stress Scenario Impact to Liquidity and Funding Ratios									
	Current			Low		Moderate		High	
	Ratio	Benchmark	Within?	Ratio	Within?	Ratio	Within?	Ratio	Within?
Liquid Assets / Assets	10.38%	>= 10%	✓	3.29%	✗	-10.29%	✗	-23.09%	✗
Loans and Leases / Shares & Deposits	92.91%	<= 100%	✓	99.66%	✓	116.19%	✗	132.31%	✗
Reliance on Wholesale Funding	6.90%	< 15%	✓	7.34%	✓	8.08%	✓	8.70%	✓
Nonmember Deposits / Shares & Deposits	1.82%	<= 10%	✓	1.94%	✓	1.99%	✓	1.97%	✓
Advances / Assets	4.58%	<= 20%	✓	3.34%	✓	3.72%	✓	4.07%	✓

May also be used to identify what portion of current borrowing capacity could be used for operational needs vs. "dry powder."

It takes time to pledge additional collateral – make this part of your near-term contingency process.

Source: S&P Global Market Intelligence.

Benchmarks represent a composition of examiner preferences and industry guidelines, they can be adjusted to better reflect an institution's risk appetite and internal limits.

Reliance on Wholesale Funding = (Total Borrowings + Nonmember Deposits) / (Total Borrowings + Total Shares/Deposits)

Liquidity Exercise – Planning for a Stress Event

Perform stress test analysis during good times to be prepared when contingency funding need arises!

Recent events in the banking industry have proven the ability to access cash quickly – and at a reasonable cost – is critical. Liquidity will remain at the forefront of examinations, therefore, building reliable access to liquidity is essential to effective liquidity management.

The identification of additional collateral available to pledge to FHLBank, along with other funding sources, will allow you to build a sufficient collateral base to utilize in times of stress. Take time to arrange access to additional funding facilities if not already established. We suggest that you have a secondary review of loans by your credit analysis/underwriting and/or loan review departments for FHLBank eligibility as part of your loan approval or ongoing review process.

- Review our Member Products and Services Guide for a description of which securities/loans are eligible for pledging and the related underwriting requirements. We can help you identify the assets that may be eligible for pledging.
- Eligible loans should be documented in the file and coded on your systems using a predefined or user-defined field to ensure they are easily identified.
- This review process would also help assure that our collateral verification process does not identify any exceptions that may increase the haircut on loans pledged as collateral.
- **Eligible/pledgeable loans are more valuable due to their ability to convert to liquidity via collateral – consider incorporating this factor in your loan pricing process?**

An improved total liquidity position through the evaluation, identification and pledging of additional collateral will help reduce examiner concern regarding liquidity. Optimizing your FHLBank collateral position will provide greater operating flexibility and strengthen your contingency funding plan. Additionally, allocate time to ensure your policies allow for meaningful borrowing flexibility, with outlets and collateral pledged to secure funding if needed.

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