Rating Analysis - 6/6/16 Debt: \$2.0Tr, Cash: \$22.8B \*EJR Sen Rating(Curr/Prj) A-/ N/A
\*EJR CP Rating: A1
EJR's 3 yr. Default Probability: 1.7%
EJR 3 yr. Recov. Rate: 67.2%

Federal Home Loan Mortgage Corporation (FMCC) is in the capital markets sector and its operating loss was \$0.4B for the quarter ending March 2016 vs \$1.0B income for the prior year. The net loss was \$0.4B vs the prior year's \$0.5B income.

For the Mar '16 qtr, FMCC's revs fell 1.9% YoY. Sequentially, net int inc declined \$182M to \$3.4B reflecting lower prepayments. Total interest inc dipped 0.2% to \$16.8M as a result of lower mortgage loans and investments in securities (-0.2% and -8.4%, resp). By seg, earnings in Single-family Guarantee soared 25%. In Multifamily seg, earnings fell 16% but comprehensive inc rose \$128M to \$150M driven by lower fair value losses. In Investments seg, comprehensive loss was \$1.2B from \$969M income a year ago driven by a \$3B derivative loss. Int exp grew 2.3% to \$13.4B, which, along with a \$4.6B derivative loss, resulted in a net loss of \$0.4B vs a net income of \$0.5B for the prior year. by Mkt Cap is \$1.4B and Net Debt is \$1.9T. Affirming.

71.4D and Net Debt is \$1.51.7\tilliming.										
	Annual Ratios Ratios for 4 Rolling Quarters									
CREDIT POSITION	Dec-15	PDec17*	<u> Mar-15</u>	<u>Jun-15</u>	Sep-15	Dec-15	Mar-16			
Fixed Chg Cov(x)	1.2	1.3	1.1	1.2	1.1	1.2	1.2			
Return on Equity (%)	216.9	334.0	164.7	122.5	342.2	216.9	549.8			
PT Ret. on Avg Assets(%)	0.5	0.7	0.3	0.5	0.3	0.5	0.4			
Ret on Perm Cap (%)	0.5	8.0	0.3	0.5	0.4	0.5	0.4			
T Debt/Cap(w Debt)(%)	99.9	99.8	99.9	99.7	99.9	99.9	99.9			
Short Term Debt/ Total Debt (%)	8.7	8.8	6.0	4.8	6.4	8.7	4.4			
Implied Sen. Rating	BBB+	BBB+	BBB+	BBB+	BBB+	BBB+	BBB+			
INDUSTRY RATIOS		AA	A	BBB	BB	<u> </u>	CCC			
Fixed Chg Cov(x)		2.3	1.8	1.3	0.9	0.7	0.5			
Return on Equity (%)		4.5	4.0	3.5	3.0	2.5	2.0			
PT Ret. on Avg Assets(%)		6.0	4.0	2.0	0.0	-2.0	-4.0			
Ret on Perm Cap (%)		20.0	10.0	7.0	4.0	2.0	-2.0			
T Debt/Cap(w Debt)(%)		85.0	90.0	95.0	97.0	98.2	100.0			
Short Term Debt/ Total Debt (%)		47.5	62.2	75.3	84.9	90.7	94.2			
					Return					
	Other	Fixed		Return	on		Ratio-			
	NRSRO	Charge		on Avg	Perm	T Debt/	Implied			
PEER RATIOS	<u>Sen.</u>	Cov(x)	ROE(%)	<u>Assets</u>	<u>Cap(%)</u>	<u>Cap(%)</u>	Rating*			
Federal National Mortgage Association	AAA	1.2	269.9	0.5	0.5	99.9	BB+			
Federal Home Loan Mortgage Corporation	AAA	1.2	216.9	0.5	0.5	99.9	BBB-			
Countrywide Financial Corp.	BBB+	1.1	-4.8	-0.6	0.9	88.7	BB+			
Doral Financial Corporation		0.4	0.0	-1.0	-2.1	78.2	В			
Advanta CL B		0.3	0.0	0.7	-7.0	42.3	B+			

Note, Annual Implied Sen. Ratings are smoothed

Rating Change Anticipator (1 is best, 100 worst): 51.3 Last EJR Sen.: A- Other NRSROs: AAA



Rating Analysis - 6/6/16

Debt: \$2.0Tr, Cash: \$22.8B

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\*EJR Sen Rating(Curr/Prj) A-/ N/A

\*EJR CP Rating: A1

EJR's 3 yr. Default Probability: 1.7%

EJR 3 yr. Recov. Rate: 67.2%

#### **REVENUE & PROFITABILITY**

The Company's revenues declined at an average annual rate of 6.5% over the last five years while operating margin rose to 5,501.14% for the fiscal year ending December 2016, above the 4,574.46% average over the prior four years. Return on Assets fell to 0.32%, below the 0.47% average for the prior years.

	Dec-11	Dec-12	Dec-13	Dec-14	Dec-15	PDec16	PDec17
Interest Income (bill \$)	99	85	73	69	67	65	63
Growth Rate (%)		(14.55)	(14.18)	(4.43)	(3.44)	(2.79)	(2.79)
Net Interest Margin (%)	40.22	22.22	22.20	20.06	22.62	20.40	40 44
3 ( )	19.32		23.28	20.96			18.11
Loan Loss Coverage (%)	NMF	NMF	NMF	NMF	NMF	NMF	NMF
Pretax ROA (%)	(0.26)	0.46	1.28	0.56	0.47	0.23	0.73
Oper Return/ Earning Assets (%)	0.19	4,349.04	9,712.70	3,309.23	5,501.14	3.09	9.45
Non-Interest Inc/Revs	3.6	7.3	5.3	13.17	10.11	10.43	10.77
Efficiency Ratio (%)	12.2	32.5	0.2	59.71	50.76	59.01	69.92
Return on Assets (%)	(0.2)	0.6	2.5	0.40	0.32	0.15	0.50

#### **LEVERAGE & ASSET LIQUIDITY**

The Quick Asset Ratio has become weaker recently, slipping to 1.4:1 for the FYE December 2016, and Quick Assets/ ST Dep & Debt declined.

	Dec-11	Dec-12	Dec-13	Dec-14	Dec-15	<u>PDec16</u>	<u>PDec17</u>
Quick Asset Ratio (%)	2.7	1.8	1.6	1.5	1.4	1.8	1.8
Quick Assets/ ST Dep & Debt(%)	19.8	15.7	14.5	21.0	16.2	20.3	20.8
LT Debt/ Capital (%)	100.0	99.5	99.3	99.9	99.8	100.0	99.8
T Debt/Cap(w Debt)(%)	100.0	99.6	99.3	99.9	99.9	100.0	99.8



Rating Analysis - 6/6/16

Debt: \$2.0Tr, Cash: \$22.8B

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\*EJR Sen Rating(Curr/Prj) A-/ N/A \*EJR CP Rating: A1

EJR's 3 yr. Default Probability: 1.7%

EJR 3 yr. Recov. Rate: 67.2%

#### **Valuation Driver: Interest Income Growth:**

Federal Home Loan Mortgage has seen a decline in interest income at 3.4% per annum in the last fiscal year which i disappointing. We expect Company's revenues will decline by approximately 2.8% per annum over the next couple of years and 0.5% per annum for the next couple of years thereafter.

#### **Valuation Driver: Net Interest Margin:**

Company's net interest margin has been more than its peers and we assumed no growth in net interest margin over the next two years.

Income Statement	Peer Median	Co. Avg.	Assumptio Yr 1&2	
Interest Income Growth%	(2.1)	(3.4)	(2.8)	0.5
Interest Expense (% of outstanding debt)	5.1	2.6	2.6	2.6
Net Interest Margin (% of earning assets)	1.0	8,513.7	8,513.7	7,662.3
Provisions for Loan Losses(% of earning assets)	0.8	(1,495.1)	(7.0)	(7.0)
Trading Account Profit Growth%	0.0	292.7	2.0	2.2
Commissions & Fees Earned Growth%	0.0	0.0		
Other Operating Income Growth%	(28.4)	(85.2)	(10.0)	(10.0)
Non-Interest Expense Growth%	0.0	(20.9)	1.0	1.0
Net Non-Operating Loss Growth%	(68.8)	(111.3)		
Income Tax Rate%	29.6	29.6	29.6	26.6
Special Items (billion \$)	0.0			
Cash & Near Cash Growth%	0.0	3.4	3.4	3.4
Accounts & Notes Receivable Growth%	(6.6)	(11.4)	(11.4)	(11.4)
Marketable Secs. & ST Investments Growth%	0.0	2,050.0	400.0	360.0
Loans & Mortgages Growth%	(0.4)	0.0	10010	00010
Real Estate Investments Growth%	0.0	0.0		
Other Long-Term Investments Growth%	(2.9)	(6.1)	(6.1)	(6.1)
Long-Term Investments before Reserves Growth%	2.2	(6.1)	(6.1)	(6.1)
Loan Loss Reserves (% of Earn. Assets.)	0.9	0.0	5.0	5.0
Loans Net of Reserves Growth%	0.0			
Net Fixed Assets Growth%	(3.2)	0.0		
Other Assets Growth%	0.0	0.0		
Demand Deposits Growth%	0.0			
Short-Term Borrowings Growth%	(26.4)	28.0	28.0	25.2
Customer Deposits Growth%	8.0	0.0		
Other ST Liabilities Growth%	0.0	0.0		
Long-Term Borrowings Growth%	0.3	0.2	0.2	0.2
Deferred Tax Liability Growth%	0.0	0.0		
Other Long-Term Liabilities Growth%	6.7	(5.0)	(5.0)	(5.0)
Shares sold (% of shares out.)	0.0	(0.0)	(0.0)	(0.0)
Additional ST debt (1st year)(billions \$)	0.0	0.0		

Rating Analysis - 6/6/16 Debt: \$2.0Tr, Cash: \$22.8B

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\*EJR Sen Rating(Curr/Prj) A-/ N/A
\*EJR CP Rating: A1
EJR's 3 yr. Default Probability: 1.7%

EJR 3 yr. Recov. Rate: 67.2%

#### ANNUAL INCOME STATEMENTS

Below are Federal Home Loan Mortgage 's annual income statements with the projected years based on the assumptions listed on page 3.

ANNUAL	<b>INCOME</b>	<b>STATEMENTS</b>

	(BILLIONS	\$, EXCEPT	Γ PER SHA	RE AMOU	NTS)	
	` Dec-12	Dec-13	Dec-14	Dec-15	PDec16	PDec17
Interest Income	84.7	72.7	69.5	67.1	65.2	63.4
Interest Expense	65.9	55.8	54.9	51.9	51.9	51.9
Net Interest Income	18.8	16.9	14.6	15.2	13.3	11.5
Provisions for Loan Losses	1.9			-2.7	0.0	-11.7
Trading Account Profit			-0.2	-0.9	-0.9	-0.9
Commissions & Fees Earned						
Other Operating Income	0.4	4.1	1.2	0.2	0.2	0.1
Non-Interest Expense	6.2	0.0	9.3	7.4	7.4	7.5
Operating Income	11.1	21.0	6.3	9.8	5.2	15.0
Net Non-Operating Loss	1.6	-4.4	-4.7	0.5	0.5	0.5
Income Tax Expenses	-1.5	-23.3	3.3	2.9	1.7	4.6
Income Before XO Items	11.0	48.7	7.7	6.4	3.0	9.9
Extraordinary Item Net of Tax						
Minority Interests					0.0	0.0
Consolidated Net Income	11.0	48.7	7.7	6.4	3.0	9.9
Total Cash Preferred Dividends	<u>13.1</u>	<u>52.2</u>	<u>10.0</u>	<u>6.4</u>	<u>6.4</u>	<u>6.4</u>
Net Income	-2.1	-3.5	-2.3	0.0	-3.4	3.5
Common Dividends						
Total Revenues	85.1	76.8	70.5	66.4	13.5	11.6
Comprehensive Income per Share	0.0	0.0	0.0	0.0		
Basic EPS Before Abnormal Items	0.0	0.0	0.0	0.0	0.0	
Basic EPS Before XO Items	0.0	0.0	0.0	0.0	0.0	0.0
Basic EPS	0.0	0.0	0.0	0.0	0.0	0.0
EBITDA						
	F	REVENUE	& PROFITA	ABILITY		
Interest Income (bill \$)	84.7	72.7	69.5	67.1	65.2	63.4
Growth Rate (%)	-14.5	-14.2	-4.4	-3.4	-2.8	-2.8
Net Interest Margin (%)	22.2	23.3	21.0	22.6	20.4	18.1
Loan Loss Coverage (%)	0.0	0.0	0.0	0.0	0.0	0.0
Pretax ROA (%)	0.0	1.3	0.6	0.0	0.0	0.0
Oper Return/ Earning Assets (%)	4,349.0	9,712.7	3,309.2	5,501.1	3.1	9.5
Non-Interest Inc/Revs	7.3	5.3	13.2	10.1	10.4	10.8
Efficiency Ratio (%)	7.5 32.5	0.2	59.7	50.8	59.0	69.9
Return on Assets (%)	0.6	2.5	0.4	0.3	0.1	0.5
Notalii oli Addeta (70)	0.0	2.5	U. <del>T</del>	0.5	0.1	0.5



Rating Analysis - 6/6/16

Debt: \$2.0Tr, Cash: \$22.8B

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\*EJR Sen Rating(Curr/Prj) A-/ N/A \*EJR CP Rating: A1

EJR's 3 yr. Default Probability: 1.7% EJR 3 yr. Recov. Rate: 67.2%

#### **ANNUAL BALANCE SHEETS**

Below are Federal Home Loan Mortgage 's balance sheets with the projected years based on the assumptions listed on page 3. As of Dec17, the Company's total cash is assumed to increase from \$24B to \$29B while its Long-Term Borrowings is assumed to rise from \$1.9T to \$2.0T.

assumed to fise from \$1.91 to \$2.01.									
	ANNUAL BALANCE SHEETS								
Base Case		(E	BILLIONS \$	EXCEPT P	ER SHARE	AMOUNTS)			
ASSETS	Dec-12	Dec-13	Dec-14	Dec-15	PDec16	PDec17			
Cash & Near Cash	23.1	23.5	19.5	20.1	27.9	28.8			
Accounts & Notes Receivable	17.0	10.5	11.0	9.7	8.6	7.6			
Marketable Secs. & ST Investments	0.1	0.0	0.0	0.0	0.2	1.1			
Loans & Mortgages									
Real Estate Investments					0.0	0.0			
Other Long-Term Investments	254.5	215.8	189.7	178.2	167.4	157.3			
Long-Term Investments before Reserves	254.5	215.8	189.7	178.2	167.4	157.3			
Loan Loss Reserves									
Loans Net of Reserves	254.5	215.8	189.7	178.2	167.4	157.3			
Net Fixed Assets	4.4								
Other Assets					1,777.9	1,777.9			
Additional Assets	1,690.8	1,717.2	1,725.4	1,777.9	0.0	0.0			
Total Assets	<u>1,989.9</u>	<u>1,967.0</u>	<u>1,945.5</u>	<u>1,986.1</u>	<u>1,982.1</u>	<u>1,972.8</u>			
Earning Assets	0.3	0.2	0.2	0.2	167.6	158.3			
LIABILITIES									
Demand Deposits									
Short-Term Borrowings	233.5	219.8	134.6	172.3	172.3	172.3			
Customer Deposits									
Other ST Liabilities					0.1	0.2			
Long-Term Borrowings	1,733.6	1,720.9	1,794.9	1,798.1	1,798.4	1,786.1			
Deferred Tax Liability		0.9							
Other Long-Term Liabilities	14.0	12.5	13.3	12.7	12.1	11.5			
Other Liabilities									
Total Liabilities	<u>1,981.0</u>	<u>1,954.2</u>	<u>1,942.9</u>	<u>1,983.1</u>	<u>1,982.9</u>	<u>1,970.1</u>			
Total Preferred Equity	86.4	86.4	86.4	86.4	86.4	86.4			
Minority Interest									
Share Capital & APIC Retained Earnings & Other Equity	0.0 -77.6	-73.6	-83.8	-83.5	0.0 -86.9	0.0 -83.5			
Total Shareholders' Equity	-77.6 8.8	-73.6 12.8	-63.6 2.7	-63.5 2.9	-00.9 -0.5	-63.5 2.9			
Total Liabilities & Equity	<u>0.0</u> 1,989.9	1.967.0	<u>2.7</u> 1,945.5	<u>2.9</u> 1,986.1	<u>-0.5</u> 1,982.4	<u>2.9</u> 1,973.1			
Shares Outstanding	1,303.3	1,307.0	3,236.0	3,235.0	3,234.7	3,234.3			
Onar Co Catalanany			3,230.0	3,233.0	3,237.7	5,257.5			

Rating Analysis - 6/6/16

Debt: \$2.0Tr, Cash: \$22.8B

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\*EJR Sen Rating(Curr/Prj) A-/ N/A

\*EJR CP Rating: A1

EJR's 3 yr. Default Probability: 1.7%

EJR 3 yr. Recov. Rate: 67.2%

# Liquidaton Analysis based on a sale of assets (\$ billions)

Cash & Near Cash   Near Cash	Horizon (years): 3		Base	Case Optimistic Case F		Pessimis	Pessimistic Case	
Cash & Near Cash   Near Cash		Book		Market		Market		Market
Cash & Near Cash         30         100         \$30		Value	MV %		MV %		MV %	
Accounts & Notes Receivable	Cash & Near Cash							
Marketable Secs. & ST Investments         5         91         5         96         5         86         4           Loans & Mortgages         -								
Loans & Mortgages - Real Estate Investments 0 0 Other Long-Term Investments 148 87 128 92 135 82 121 Loan Congram Investments before Reserves 148 120 135 121 120 120 120 120 120 120 120 120 120								4
Real Estate Investments		_	31	J	30	٦	00	7
Other Long-Term Investments   148   87   128   92   135   82   121	5 5	0						
Long-Term Investments before Reserves			87	128	92	135	82	121
Loan Loss Reserves	<u> </u>		07	120	32		02	
Loans Net of Reserves Net Fixed Assets         148         77         114         82         121         72         106           Not Fixed Assets         1,778         82         1,454         87         1,543         77         1,365           Total Assets         1,967         1,608         1,705         1,511           Check         1,967         1,608         1,705         1,511           MV/ Adjusted Book Value         1,967         81.8%         86.7%         76.89           Priority Claims:         100         -         100         <		_				133		121
Net Fixed Assets			77	111	92	121	72	106
Dither Assets		140	11	114	02	121	12	100
Total Assets		4 770	00	1 151	07	1 5 4 2	77	4 005
Check   1,967	Other Assets	1,778	82	1,454	87	1,543	77	1,300
Check   1,967	Total Accord			4 000		4 705		4 544
MV/ Adjusted Book Value of Total Assets (1)				1,608		1,705		1,511
of Total Assets (1) Priority Claims: Deferred Tax Liability  - 100 - 100 - 100 - 100  Other  Admin. and Liq. Costs at 3% of Assets 59 100.0 59  100.0 59  59  59  59  59  59  59  59  59  59		1,967						
Priority Claims:   Deferred Tax Liability   -   100								
Deferred Tax Liability				81.8%		86.7%		76.8%
Other         -         100         -         Admin. and Liq. Costs at 3% of Assets         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         100.0         59         50         20         20								
Admin. and Liq. Costs at 3% of Assets 59 100.0 59 59 59 59 55 55	Deferred Tax Liability	-	100	-	100	-	100	C
Admin. and Liq. Costs at 3% of Assets 59 100.0 59 59 59 59 55 55	Other	_	100	_				
Sum Priority Claims		59		59	100.0	59	100.0	50
Remaining Corpus			100.0		100.0		100.0	<u>55</u>
Demand Deposits		00						
1,777	= :	172				-		
Time Deposits Other LT Liabilities	Bernaria Bepeake							
Other LT Liabilities         11         12         12         12         12         12         12         12         12         12         12         13         14 <td>Time Deposits</td> <td>,</td> <td></td> <td>,</td> <td></td> <td>,</td> <td></td> <td>,</td>	Time Deposits	,		,		,		,
Other Off-balance Sheet Liab. Sum Senior, Unsecured Claims         -         -         -         -         0         0         1,961         1,961         1,961         1,961         1,961         1,961         1,961         1,961         1,961         1,961         1,961         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%         63.0%         74.1%		11		11		11		11
Off-balance Sheet Liab. Sum Senior, Unsecured Claims         0 1,961         0 1,961         0 1,961         1,961				_		-		(
Sum Senior, Unsecured Claims   1,961	Off-balance Sheet Liab.			0		o		C
Recovery (Corpus/ Sum Sen. Claims)   79.0%   84.0%   74.1%   74.1%   63.0%	Sum Senior, Unsecured Claims					1,961		1,961
PV at 1.5 years   67.2%   71.4%   63.09		•						74.1%
Sub. Debt       0       0       0         Sub. Debt Recovery       0       0       0         Check: Sum Claims less Liquidation Costs       1,961         Liabilities       1,961       1,961         Comparative Book Value Analysis (based on FYE financials)(2)         Ticker       FMCC       FNMA       FMCC       CFC       DRL         Share Price in local currency       2.07       2.32       2.07       0.00       0.40         Shares Outstanding (millions)       650       1,158       650       7         Com. Stock MV in local currency (B)       1       3       1       -       0         plus Preferred Stock Book Value (B)       86       136       86       2       0         Adjusted Equity Value       88       139       88       2       0         Total Assets (B)       1,986       3,222       1,986       214       8         Equity Value/ Total Assets       4.4%       4.3%       4.4%       0.9%       4.2%								63.0%
Check: Sum Claims less Liquidation Costs       1,961         Liabilities       1,961         Comparative Book Value Analysis (based on FYE financials)(2)         Ticker       FMCC       FNMA       FMCC       CFC       DRL         Share Price in local currency       2.07       2.32       2.07       0.00       0.40         Shares Outstanding (millions)       650       1,158       650       7         Com. Stock MV in local currency (B)       1       3       1       -       0         plus Preferred Stock Book Value (B)       86       136       86       2       0         Adjusted Equity Value       88       139       88       2       0         Total Assets (B)       1,986       3,222       1,986       214       8         Equity Value/ Total Assets       4.4%       4.3%       4.4%       0.9%       4.2%		0						C
Liabilities       1,961         Comparative Book Value Analysis (based on FYE financials)(2)         Ticker       FMCC       FNMA       FMCC       CFC       DRL         Share Price in local currency       2.07       2.32       2.07       0.00       0.40         Shares Outstanding (millions)       650       1,158       650       7         Com. Stock MV in local currency (B)       1       3       1       -       0         plus Preferred Stock Book Value (B)       86       136       86       2       0         Adjusted Equity Value       88       139       88       2       0         Total Assets (B)       1,986       3,222       1,986       214       8         Equity Value/ Total Assets       4.4%       4.3%       4.4%       0.9%       4.2%								
Comparative Book Value Analysis (based on FYE financials)(2)           Ticker         FMCC         FNMA         FMCC         CFC         DRL           Share Price in local currency         2.07         2.32         2.07         0.00         0.40           Shares Outstanding (millions)         650         1,158         650         7           Com. Stock MV in local currency (B)         1         3         1         -         0           plus Preferred Stock Book Value (B)         86         136         86         2         0           Adjusted Equity Value         88         139         88         2         0           Total Assets (B)         1,986         3,222         1,986         214         8           Equity Value/ Total Assets         4.4%         4.3%         4.4%         0.9%         4.2%	·							
Ticker         FMCC         FNMA         FMCC         CFC         DRL           Share Price in local currency         2.07         2.32         2.07         0.00         0.40           Shares Outstanding (millions)         650         1,158         650         7           Com. Stock MV in local currency (B) plus Preferred Stock Book Value (B)         1         3         1         -         0           Adjusted Equity Value         88         139         88         2         0           Adjusted Equity Value         88         139         88         2         0           Total Assets (B) Equity Value/ Total Assets         1,986         3,222         1,986         214         8           Equity Value/ Total Assets         4.4%         4.3%         4.4%         0.9%         4.2%								
Share Price in local currency       2.07       2.32       2.07       0.00       0.40         Shares Outstanding (millions)       650       1,158       650       7         Com. Stock MV in local currency (B)       1       3       1       -       0         plus Preferred Stock Book Value (B)       86       136       86       2       0         Adjusted Equity Value       88       139       88       2       0         Total Assets (B)       1,986       3,222       1,986       214       8         Equity Value/ Total Assets       4.4%       4.3%       4.4%       0.9%       4.2%	•	ed on FYE fina	, · · ·					
Shares Outstanding (millions)       650       1,158       650       7         Com. Stock MV in local currency (B) plus Preferred Stock Book Value (B)       1       3       1       -       0         Adjusted Equity Value       88       139       88       2       0         Adjusted Equity Value       88       139       88       2       0         Total Assets (B) Equity Value/ Total Assets       1,986       3,222       1,986       214       8         Equity Value/ Total Assets       4.4%       4.3%       4.4%       0.9%       4.2%								
Com. Stock MV in local currency (B) plus Preferred Stock Book Value (B)       1 3 1 - 0 0 86 136 86 2 0         Adjusted Equity Value       88 139 88 2 0 0         Total Assets (B) Equity Value/ Total Assets       1,986 3,222 1,986 214 8 6 214 8 6 6 2 0         Equity Value/ Total Assets       4.4% 4.3% 4.4% 0.9% 4.2%						0.00	0.40	
Polus Preferred Stock Book Value (B)       86       136       86       2       0         Adjusted Equity Value       88       139       88       2       0         Total Assets (B)       1,986       3,222       1,986       214       8         Equity Value/ Total Assets       4.4%       4.3%       4.4%       0.9%       4.2%	Shares Outstanding (millions)		650	1,158	650		7	
Adjusted Equity Value 88 139 88 2 0 Total Assets (B) 1,986 3,222 1,986 214 8 Equity Value/ Total Assets 4.4% 4.3% 4.4% 0.9% 4.2%	Com. Stock MV in local currency (B)		1	3		-	0	
Total Assets (B)       1,986       3,222       1,986       214       8         Equity Value/ Total Assets       4.4%       4.3%       4.4%       0.9%       4.2%	plus Preferred Stock Book Value (B)		86	136	86	2	0	
Total Assets (B)       1,986       3,222       1,986       214       8         Equity Value/ Total Assets       4.4%       4.3%       4.4%       0.9%       4.2%	Adjusted Equity Value		88	139	88	2	0	
Equity Value/ Total Assets 4.4% 4.3% 4.4% 0.9% 4.2%								
· · ·	• •							
	Notes		,		1.175	3.073	/3	

- 1. The Estimated Market Value of Assets divided by Total Assets. This item should be compared to footnote #2.
- 2. The Equity Market Value divided by the Total Assets



Rating Analysis - 6/6/16

Debt: \$2.0Tr, Cash: \$22.8B

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\*EJR Sen Rating(Curr/Prj) A-/ N/A

\*EJR CP Rating: A1

EJR's 3 yr. Default Probability: 1.7%

EJR 3 yr. Recov. Rate: 67.2%

## Liquidation Analysis using going concern value (\$B except per share amt.) Horizon (years): 3

. ,	<u>Dec-14</u>	Dec-15	PDec16	PDec17	PDec18	PDec19	PDec20
Consolidated Net Income at FYE	8	6	3	10	10	10	11
Total Shareholders' Equity	3	3	(1)	3	7	11	15
Total Revenues	70	66	13	12	12	13	13
Debt	1,930	1,970	1,971	1,958	1,949	1,955	2,025
Preferred Stock	86	86	86	86	86	86	86
	Shares (millions)	650	650	650	649	649	649
Share Valuation (see below pages)		2.07		_			
	Current Market Cap Est. (B)	1			2		
FALSE				L	0.2		
			5	5 .	<b></b>		
A 1 \ / -   (	( DD - 40		Base	Best	Worst		
Assumed Value of common stock as			2	2	2		
Adjusted Assumed Value of stock a			_	2	2		
Plus 80% of net debt, pfd. shares, ar	id excess cash as of Dec, 2016		<u>1,640</u>	<u>1,640</u>	<u>1,640</u>		
Enterprise value			1,643	1,643	1,642		
Priority Claims:							
Deferred Tax Liability							
Other							
Admin. and Liq. Costs at 3% of As	sets	<u>59</u>					
Sum Priority Claims		59	<u>59</u>	<u>59</u>	<u>59</u>		
Remaining Corpus			1,584	1,584	1,583		
Demand Deposits		172	172	172	172		
		1,777	1,777	1,777	1,777		
Time Deposits							
Other LT Liabilities		11	11	11	11		
Other							
Off-balance Sheet Liab.							
Sum Senior, Unsecured Claims		_	1,961	1,961	1,961		
Recovery (Remaining corpus/ Sen PV at 1.5 years	. Claims)		80.8% 64.6%	80.8% 64.6%	80.8% 64.6%		
Sub. Debt							
Sub. Debt Recovery							
Check: Sum Claims less Liquidation	Costs	1,961					
Liabilities		1,961					
<b>Comparative Going Concern</b>			s)(1)				
Ticker	FMCC	FNMA	FMCC	CFC	DRL		
Share Price	2.07	2.32	2.07	0.00	0.40		
Shares Outstanding (M)	650	1,158	650		7		
Common Stock Market Value (M)	1	3	1	-	0		
Preferred Stock Book Value	86	136	86	2	0		

Preferred Stock Book Value	86	136	86	2	0	
Adj. Enterprise Cost Consolidated Net Income at FYE (B)	<b>88</b> 6	<b>139</b> 11	<b>88</b> 6	<b>2</b> -1	<b>0</b> 0	Medians
Market Cap/Consolidated Net Income	o	0.2	0.2	NMF	NMF	0.1
Total Shareholders' Fauity	3	1	3	15	1	

Adj. Enterprise Cost/Total Shareholders' Equity	30	34.2	29.9	0.1	0	15.2
Revenues	66	112	66	24	0	
Adj. Enterprise Cost/ Revenues	1.3	1.2	1.3	0.1	0.8	1.0



Rating Analysis - 6/6/16 Debt: \$2.0Tr, Cash: \$22.8B

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\*EJR Sen Rating(Curr/Prj) A-/ N/A
\*EJR CP Rating: A1
EJR's 3 yr. Default Probability: 1.7%
EJR 3 yr. Recov. Rate: 67.2%

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#### Comments on the Difference between the Model and Assigned Rating

In this case, there has been little change in the recent results and therefore we have used our best judgement in making adjustments which are reflected in the results for the projected ratings. We have assigned a rating of "A-" whereas the ratio-implied rating for the most recent period is "BBB+"; the median rating for the peers is significantly higher than the Company's rating.

#### **Changes in Industry Ratios**

We have not made any adjustment in the industry ratios at this time.

#### CUSIPs and EJR rating

3137EADQ9 rated A-; 3137EADN6 rated A-; 3137EADL0 rated A-; 3137EADJ5 rated A-; 3137EADH9 rated A-; 3137EADF3 rated A-; 3137EADD8 rated A-; 3137EADC0 rated A-; 3137EADC4 rated A-; 3137EACZ0 rated A-; 3137EACZ9 rated A-; 3137EACX5 rated A-; 3137EACW7 rated A-; 3137EACW9 rated A-; 3137EACW9 rated A-; 3137EACW9 rated A-; 3137EACB3 rated A-; 3137EACR8 rated A-; 3137EACM9 rated A-; 3137EACB0 rated A-; 3137EABX6 rated A-; 3137EABS7 rated A-; 3137EABM0 rated A-; 3137EABA6 rated A-; 3137EAAY5 rated A-; 3137EAAS8 rated A-; 3137EAAM1 rated A-; 3134G4B23 rated A-; 3134G4B49 rated A-; 3134G4B49 rated A-; 3134G4B23 rated A-; 3134G4AZ1 rated A-; 3134G4AV0 rated A-; 3134G4AT5 rated A-; 3134G4AB4 rated A-; 3134G4AN8 rated A-; 3134G4AV0 rated A-; 3134G4AV1 rated A-; 3134G4AB4 rated A-; 3134G4A81 rated A-; 3134G4AV0 rated A-; 3134G46G8 rated A-; 3134G4AB4 rated A-; 3134G45U8 rated A-; 3134G45L8 rated A-; 3134G45A2 rated A-; 3134G44R6 rated A-; 3134G44N5 rated A-; 3134G44F2 rated A-; 3134G44F2 rated A-; 3134G43Y2 rated A-; 3134G43S5 rated A-; 3134G43S7 rated A-; 3134G43P1 rated A-; 3134G43E6 rated A-; 3134G42Z0 rated A-; 3134G42Y3 rated A-; 3134G42V9 rated A-; 3134G42Q0 rated A-; 3134G42N7 rated A-; 3134G42M9 rated A-; 3134G42L1 rated A-; 3134G42L1 rated A-; 3134G42Y3 rated A-; 3134G42V9 rated A-; 3134G42Q0 rated A-; 3134G42N7 rated A-; 3134G42M9 rated A-; 3134G42L1 rated A-;



Rating Analysis - 6/6/16

Debt: \$2.0Tr, Cash: \$22.8B

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\*EJR Sen Rating(Curr/Prj) A-/ N/A \*EJR CP Rating: A1 EJR's 3 yr. Default Probability: 1.7%

EJR 3 yr. Recov. Rate: 67.2%

# SEC Rule 17g-7(a) Disclosure

Below are the disclosures as required by Paragraph (a) of Rule 17g-7.

1. The symbol in the rating scale used to denote the credit rating categories and notches within categories and the identity of the obligor, security, or money market instrument as required by Paragraph (a)(1)(ii)(A) of Rule 17g-7:

For the issuer FEDERAL HOME LOAN MORTGAGE with the ticker of FMCC we have assigned the senior unsecured rating of A-. There are three notches in our rating categories (e.g., A-, A, and A+) other than those deep into speculative grade; for CC, C, and D there are no notches.

2. The version of the procedure or methodology used to determine the credit rating as required by Paragraph (a)(1)(ii)(B) of Rule 17g-7:

We are using the methodology available in our Form NRSRO Exhibit #2 dated Nov. 10, 2015 available via egan-jones.com under the tab at the bottom of the page "Methodologies".

3. The main assumptions and principles used in constructing the procedures and methodologies used to determine the credit rating as required by Paragraph (a)(1)(ii)(C) of Rule 17g-7:

The credit rating assigned reflects our judgement regarding the future credit quality of the issuer. Regarding the specific assumptions used, please refer to page 3 of this Rating Analysis Report.

4. The potential limitations of the credit rating as required by Paragraph (a)(1)(ii)(D) of Rule 17g-7:

Our rating pertains solely to our view of current and prospective credit quality. Our rating does not address pricing, liquidity, or other risks associated with holding investments in the issuer.

5. Information on the uncertainty of the credit rating as required by Paragraph (a)(1)(ii)(E) of Rule 17g-7:

Our rating is dependant on numerous factors including the reliability, accuracy, and quality of the data relied used in determining the credit rating. The data is sourced from publicly-available 10Q and 10K statements, quarterly reports, 8K filings, earnings reports, and other similar sources. In some cases, the information is limited because of issues such as short operating histories, the lack of reported data, a delay in reporting data, restatements, inaccurate accounting, and other issues. Such shortcomings are not always readily apparent. EJR aims to identify such shortcomings and make adjustments using its best judgement.

6. Whether and to what extent third-party due diligence services have been used in taking the rating action as required by Paragraph (a)(1)(ii)(F) of Rule 17g-7:

EJR does not utilize third-party due diligence services.

7. How servicer or remittance reports were used, and with what frequency, to conduct surveillance of the credit rating as required by Paragraph (a)(1)(ii)(G) of Rule 17g-7:

Servicer or remittance reports normally pertain to structured finance issuers; this report does not pertain to a structured finance issuer (EJR is not an NRSRO for structured finance or sovereigns/ municipal issuers). Regarding surveillance, the minimum time period for corporation issuers is normally one year.

8. A description of the data that were relied upon for the purpose of determining the credit rating as required by Paragraph (a)(1)(ii)(H) of Rule 17g-7:

EJR uses 10Q and 10K statements, quarterly reports, 8K filings, earnings reports, and other similar sources for ratings on publicly-traded issuers. In the case of private issuers, EJR relies on information provided mainly by issuers.

- 9. A statement containing an overall assessment of the quality of information available and considered in the credit rating as required by Paragraph (a)(1)(ii)(I) of Rule 17g-7: The information is generally high quality and readily avail.
- Information relating to conflicts of interest as required by Paragraph (a)(1)(ii)(J) of Rule 17g-7: This rating is unsolicited.

Rating Analysis - 6/6/16 Debt: \$2.0Tr, Cash: \$22.8B

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\*EJR Sen Rating(Curr/Prj) A-/ N/A \*EJR CP Rating: A1

EJR's 3 yr. Default Probability: 1.7%

EJR 3 yr. Recov. Rate: 67.2%

11. An explanation or measure of the potential volatility of the credit rating as required by Paragraph (a)(1)(ii)(K) of Rule 17g-7: Our rating aims to assess the probability of the payment of obligations in full and on-time. Factors which affect such probability, and in turn our rating, include changes in the operating performance of the issuer, changes in capital structure, and merger and acquisition events.

12. Information on the content of the credit rating as required by Paragraph (a)(1)(ii)(L) of Rule 17g-7:

Regarding the historical performance of the credit rating, our rating transition matrix is available in our Form NRSRO, exhibit 1. The expected probability of default and the expected loss in the event of default is listed on the first page of this report.

13. Information on the sensitivity of the credit rating to assumptions as required by Paragraph (a)(1)(ii)(M) of Rule 17g-7: Below is a summary of the impact of the 5 assumptions which independently would have the greatest impact on our "ratio-implied rating":

	Assumptions			Resulting Ratio-Implied Rating			
	Base	Optimistic	Pessimistic	Base	Optimistic	Pessimistic	
Interest Income Growth%	(2.8)	1.2	(6.8)	BBB+	BBB+	A-	
Interest Expense (% of outstanding debt)	2.6	(0.4)	5.6	BBB+	BBB-	BBB	
Provisions for Loan Losses(% of earning assets)	(7.0)	(10.0)	(4.0)	BBB+	BBB+	A-	
Commissions & Fees Earned Growth%		0.1	2.0	BBB+	BBB+	BBB+	
Loan Loss Reserves (% of Earn. Assets.)	5.0	3.0	7.0	BBB+	BBB+	BBB+	

14. If the credit rating is assigned to an asset-backed security, a description of: (i) the representations, warranties, and enforcement mechanisms available to investors; and (ii) how they differ from the representations, warranties, and enforcement mechanisms in issuances of similar securities, as required by Paragraph (a)(1)(ii)(N) of Rule 17g-7: This credit rating is not assigned to an asset-backed security.

#### ATTESTATION FORM

In compliance with the US Securities and Exchange Commission (SEC) Rule 17g-7(a), the Egan-Jones analyst who published the report is responsible for the rating action and to the best knowledge of the

- 1) No part of the credit rating was influenced by any other business activities,
- 2) The credit rating was based solely upon the merits of the obligor, security, or money market instrument being rated, and
- 3) The credit rating was an independent evaluation of the credit risk of the obligor, security, or money market instrument.

Analyst Signature:	Today's Date
mubaniqued	June 06, 2016
Melody Baniqued Rating Analyst	
Reviewer Signature:	Today's Date
Caroline Ding	June 06, 2016
Caroline Ding	
Rating Analyst	

Rating Analysis - 6/6/16 Debt: \$2.0Tr, Cash: \$22.8B

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\*EJR Sen Rating(Curr/Prj) A-/ N/A
\*EJR CP Rating: A1
EJR's 3 yr. Default Probability: 1.7%

EJR 3 yr. Recov. Rate: 67.2%

# **Sovereign Rating Methodology (Non-NRSRO)**

Scope and Limitations: Sovereign Issuer Credit Quality Ratings (CQR) are a forward-looking assessment of a sovereign's capacity and willingness to honor its existing and future obligations in full and on time. Sovereigns are assigned two CQRs: a Local-Currency CQR, which reflects the likelihood of default on debt issued and payable in the currency of the sovereign, and a Foreign-Currency CQR, which is an assessment of the credit risk associated with debt issued and payable in foreign currencies.

Key Rating Drivers: EJR's approach to sovereign risk analysis is a synthesis of quantitative and qualitative judgments. The quantitative factors EJR uses are:

- Debt in relation to GDP.
- Surplus or deficit in relation to GDP.
- Debt plus potential under-funding of major banks in relation to GDP.
- Interest expense in relation to taxes.
- GDP growth.
- Foreign reserves in relation to debt.

Debt levels for many sovereign issuers have increased at an accelerating rate over the past decade, affecting implied ratings. EJR also considers unemployment levels and funding costs. EJR recognizes that no model can fully capture all the relevant influences on sovereign creditworthiness, meaning that the its sovereign ratings can and do differ from those implied by the rating model. Some of the qualitative factors that impact its ultimate assessment of credit quality include the flexibility, stability and overall strength of the economy, efficiency of tax collection, acceptance of contract law, ease of doing business, trade balances, prospects for future growth and health and monetary policy, and economic freedom. These subjective and dynamic qualitative issues are not captured by the model but affect sovereign ratings

For additional information, please see Exhibit 2: Methodologies in EJR's Form NRSRO.

