Introduction of Team – Global Residential Investments

Ryan Fulmer, MD
Head of Global Residential Investments

Kathryn Ballard
Administrative Assistant

U.S. RMBS and Consumer ABS

Douglas Lee, VP
Portfolio Manager
Non-Agency RMBS

Sasha Kazachkova
Portfolio Manager
Agency RMBS

Sudhir Sharma, VP
Head of RMBS Research

Greg Spilberg, VP
Portfolio Manager
Consumer ABS and Legacy NARMBS

Michael Guadagno
Analyst

Stuart Clemons, VP
RMBS Analyst

Thomas Korrell
Consumer ABS Analyst

Stella Magklivera
RMBS Analyst

Jenny Yu
RMBS Analyst

U.S. Residential Mortgage Lending

Bill Moss, MD
Head of U.S. Residential Mortgage Lending

John Rexer, VP
Portfolio Management

Uyen Phan, VP
Governance

Vince Credle
Head of Operations

Shane Larscheid
Head of Sales

Non-U.S. Residential Investments

Tim Steele, MD
Head of Non-US Residential Investments

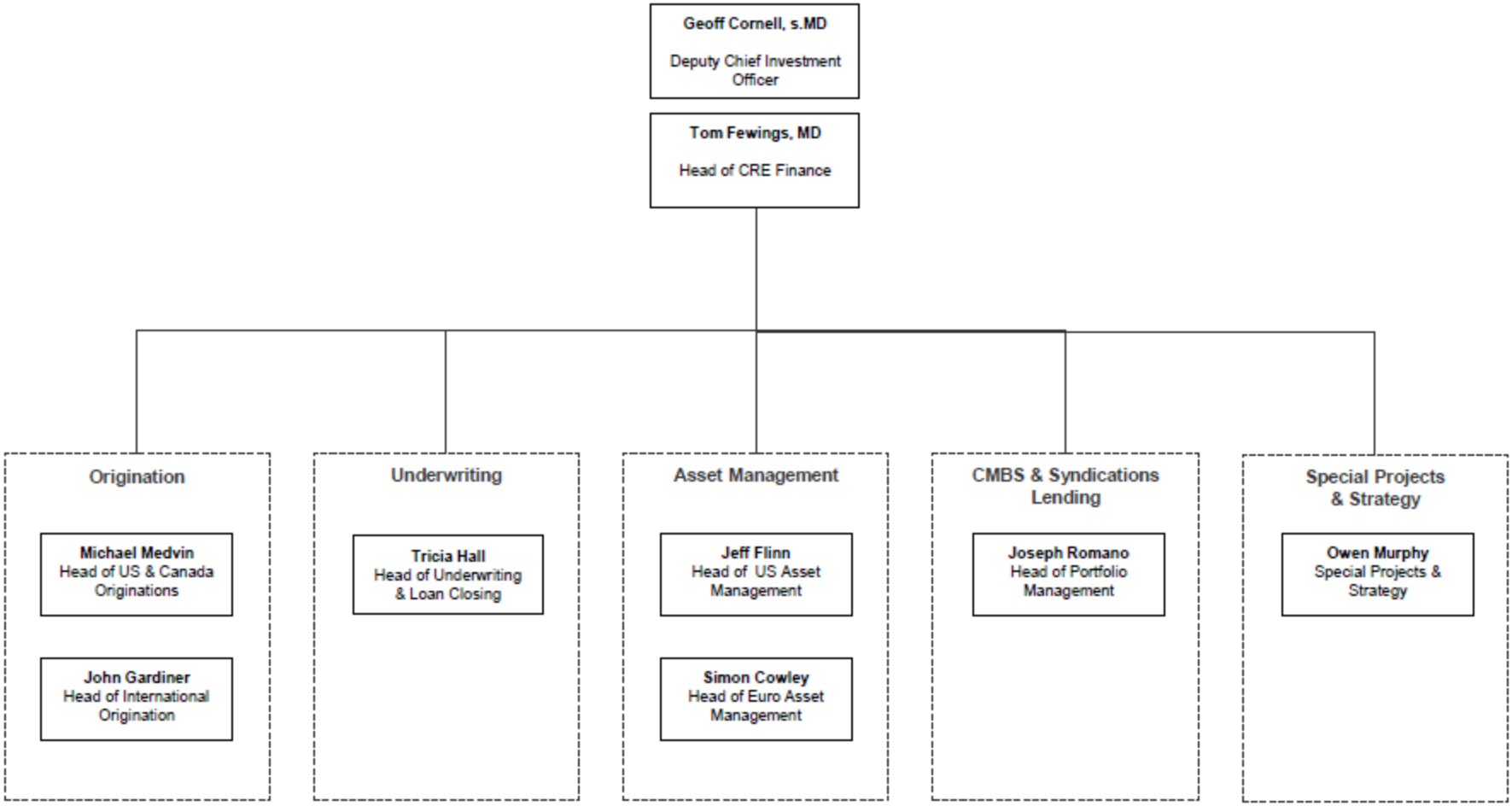
Will Brown
Portfolio Management

Lena Keothavong
Portfolio Management

Eugene Gan
Analyst

AIG

Introduction of Team – Global CRE Finance



SOX Control – NY Trade Approval

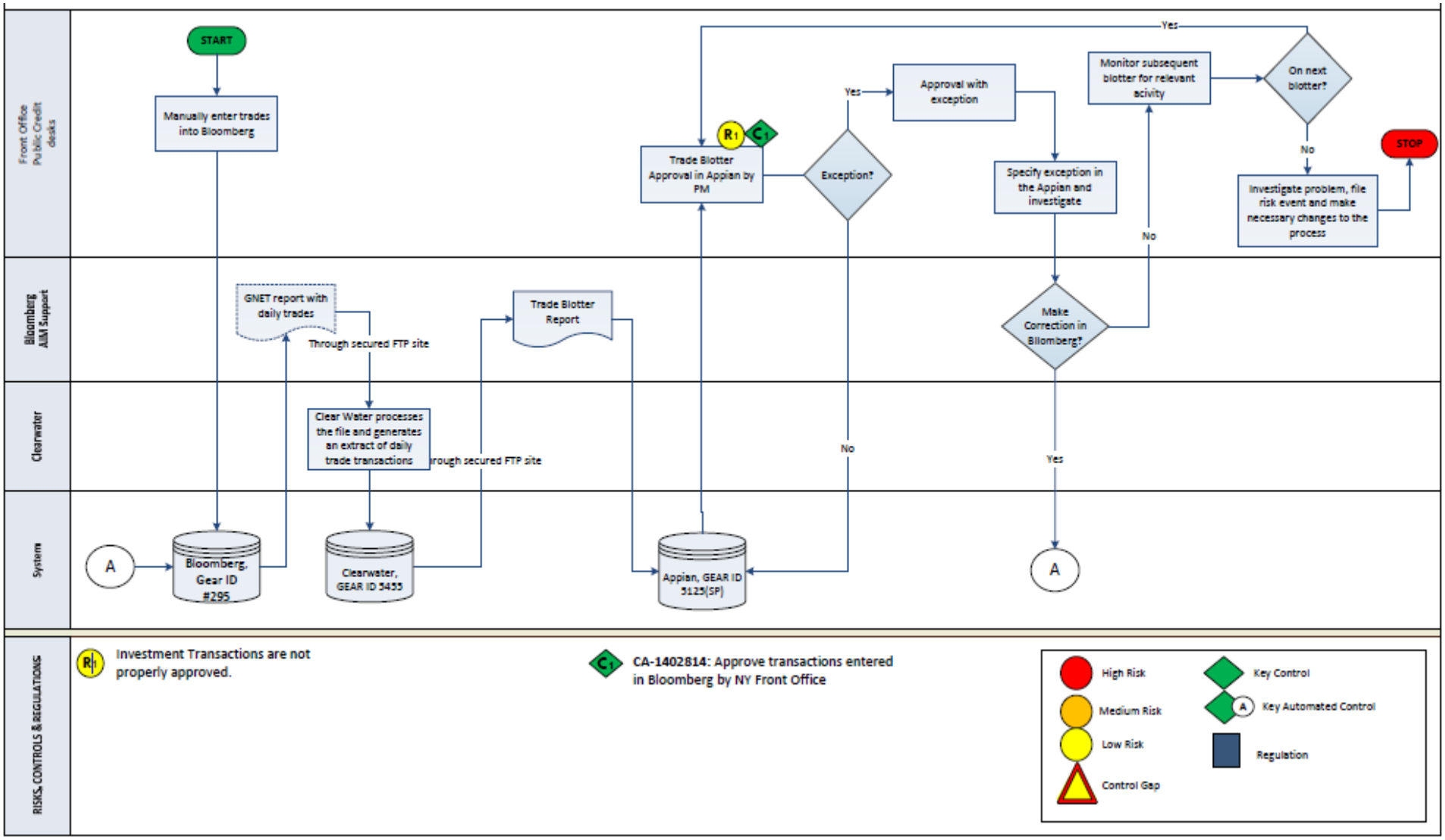
Control CA-1402814 (Risk – Low, Frequency – Daily)	
Description	**Additional Description**
Daily, NY Portfolio Managers approve trades entered in Bloomberg AIM trade system. The authorization of trades is evidenced through email or Appian workflow tool approval of trade blotters.	This control covers NY emerging markets, high grade, high yield, municipal bond and structured product portfolios.

Control CA-1403936 (Risk – Low, Frequency – Daily)	
Description	**Additional Description**
Daily, the Structured Products Portfolio Managers categorize all purchased securities on its blotter as credit impaired or not. Approval of this assessment is evidenced through Portfolio Manager's sign off of daily PDF trade blotters.	A trade blotter is generated overnight from Clearwater that identifies whether or not the securities were purchased credit impaired. The blotter is automatically emailed to the front office and Investment Accounting. The blotter is reviewed and signed by the PM to evidence their approval of the information contained on the blotter, including the Y/N flag indicating whether each trade was designated as purchased credit impaired based on pre-trade review of the credit analysis summary. Documentation supporting the credit impaired assessment is maintained by the front office's.

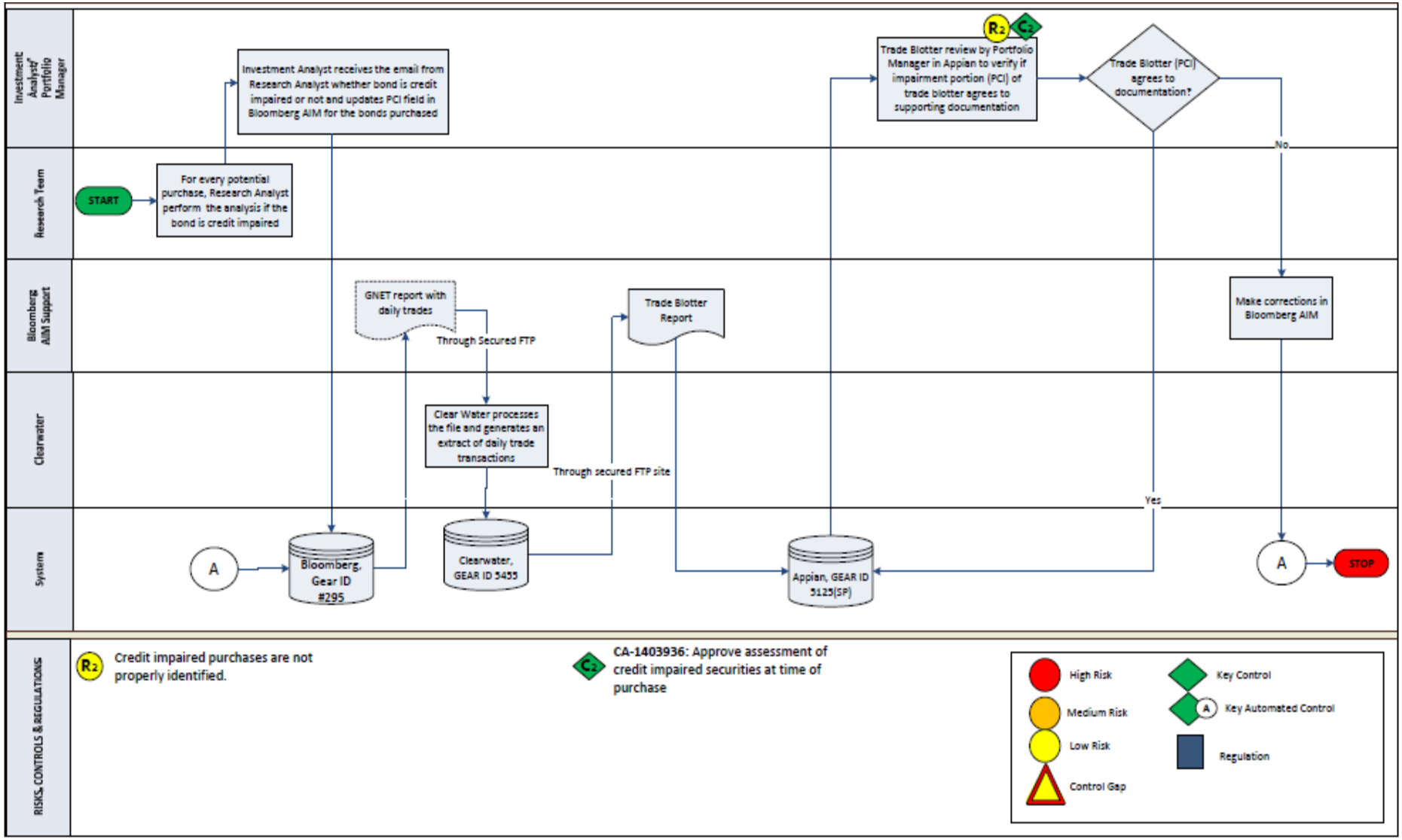
On May 7 2019, Thomas Korrell verified that the control descriptions are accurate for 2019. ✓

AIG

Process Flow – NY Trade Approval



Process Flow – NY CIPI



Walkthrough Sample – NY Trade Approval - CA-1402814

Evidence of Appian approval of Daily trades – Structured Products NY

Records / TBC AMG Structured Blotters

AMG Structured Blotters Confirmation

Summary | News | Related Actions

Blotter Confirmation Process Status

In Portfolio Managers Review — Review Completed — **Approved**

Blotter

Blotter Name
AMG_PTSTradeBlotter_RMBS_04-16-2019

Submitted On
4/17/2019 8:15 AM EDT

Asset Class
RMBS

Reviewed By
Thomas Korrell

Status
Approved

Approved By
Douglas Lee

Reviewer Comments

Reviewer	Review Date	Comments	Reviewer Role
Douglas Lee	4/17/2019 1:13 PM EDT		AMG Non Agency RMBS Approver
Thomas Korrell	4/17/2019 9:38 AM EDT	NRZT 2018-3A A1 (64830KAA5)	AMG Non Agency RMBS Reviewer

AIG

Walkthrough Sample – NY Trade Approval - CA-1402814

Approved Structured Products NY Trade Blotter

From: AMG RMBS Struct Prod Blotter Approval - 9458 <process1074117285@aig.com>
Sent: Wed 4/17/2019 1:14 PM
To: Fulmer, Ryan; Lee, Douglas; Spilberg, Greg; Korrell, Thomas
Cc:
Subject: Approved Blotter for AMG_PTSTradeBlotter_RMBS_04-16-2019 4/17/2019 8:15 AM EDT

Message | AMG_PTSTradeBlotter_RMBS_04-16-2019.csv

Please find the fully Approved AMG_PTSTradeBlotter_RMBS_04-16-2019 blotter attached.

Reviewer: Thomas Korrell
Review Date: 4/17/2019 9:38 AM EDT

Reviewer Comments: NRZT 2018-3A A1 (64830KAA5)

Approver: Douglas Lee
Approved Time: 4/17/2019 1:13 PM EDT
Approver Comments: N/A

AMG_PTSTradeBlotter_RMBS_04-16-2019 [Read-Only] - Microsoft Excel

File | Home | Insert | Page Layout | Formulas | Data | Review | View | Acrobat

N12

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	W	X	Y
1	HEADERAMG_PTS_NonAgencyRMBS_20190416_20190416																						
2	PM	Trader	B/S	Trade Dat	Account	Settle Dat	Sec Description	Cusip	Coupon	Par	Factor	Price	Proceeds	A/L	DUR	Yield	Benchma	Spread	Swapspr	Broker	Long Note 4	PCI	Status
3	RF Fulmer	DLEE	B	4/16/2019	LXSMWLCM	4/18/2019	NRZT 20183A A1	US64830KAA51	4.5	9,740,000	0.9025	103.457	9,094,270.96	4.48	3.88	3.57	DM	120	117	BK OF AM	CMO NON NA	No	New Trade
4	RF Fulmer	DLEE	B	4/16/2019	VRCNCMO	4/18/2019	NRZT 20183A A1	US64830KAA51	4.5	5,266,000	0.9025	103.457	4,916,882.02	4.48	3.88	3.57	DM	120	117	BK OF AM	CMO NON NA	No	New Trade
5	RF Fulmer	DLEE	B	4/16/2019	VRMBNRM	4/18/2019	NRZT 20183A A1	US64830KAA51	4.5	6,426,000	0.9025	103.457	5,999,977.94	4.48	3.88	3.57	DM	120	117	BK OF AM	CMO NON NA	No	New Trade
6	RF Fulmer	DLEE	B	4/16/2019	VRNCMO	4/18/2019	NRZT 20183A A1	US64830KAA51	4.5	8,568,000	0.9025	103.457	7,999,970.59	4.48	3.88	3.57	DM	120	117	BK OF AM	CMO NON NA	No	New Trade
7	TRAILER 4																						

Walkthrough Sample – NY Trade Approval - CA-1402814

Approved Structured Products NY Trade Blotter

From: AMG RMBS Struct Prod Blotter Approval - 9458 <process1074117285@aig.com>
Sent: Wed 4/17/2019 1:14 PM
To: Fulmer, Ryan; Lee, Douglas; Spilberg, Greg; Korrell, Thomas
Cc:
Subject: Approved Blotter for AMG_PTSTradeBlotter_RMBS_04-16-2019 4/17/2019 8:15 AM EDT

Message | AMG_PTSTradeBlotter_RMBS_04-16-2019.csv

Please find the fully Approved AMG_PTSTradeBlotter_RMBS_04-16-2019 blotter attached.

Reviewer: Thomas Korrell
Review Date: 4/17/2019 9:38 AM EDT

Reviewer Comments: NRZT 2018-3A A1 (64830KAA5)

Approver: Douglas Lee
Approved Time: 4/17/2019 1:13 PM EDT
Approver Comments: N/A

AMG_PTSTradeBlotter_RMBS_04-16-2019 [Read-Only] - Microsoft Excel

File | Home | Insert | Page Layout | Formulas | Data | Review | View | Acrobat

N12

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	W	X	Y
1	HEADERAMG_PTS_NonAgencyRMBS_20190416_20190416																						
2	PM	Trader	B/S	Trade Dat	Account	Settle Dat	Sec Description	Cusip	Coupon	Par	Factor	Price	Proceeds	A/L	DUR	Yield	Benchma	Spread	Swapspr	Broker	Long Note 4	PCI	Status
3	RF Fulmer	DLEE	B	4/16/2019	LXSMWLCM	4/18/2019	NRZT 20183A A1	US64830KAA51	4.5	9,740,000	0.9025	103.457	9,094,270.96	4.48	3.88	3.57	DM	120	117	BK OF AM	CMO NON NA	No	New Trade
4	RF Fulmer	DLEE	B	4/16/2019	VRCNCMO	4/18/2019	NRZT 20183A A1	US64830KAA51	4.5	5,266,000	0.9025	103.457	4,916,882.02	4.48	3.88	3.57	DM	120	117	BK OF AM	CMO NON NA	No	New Trade
5	RF Fulmer	DLEE	B	4/16/2019	VRMBNRM	4/18/2019	NRZT 20183A A1	US64830KAA51	4.5	6,426,000	0.9025	103.457	5,999,977.94	4.48	3.88	3.57	DM	120	117	BK OF AM	CMO NON NA	No	New Trade
6	RF Fulmer	DLEE	B	4/16/2019	VRNCMO	4/18/2019	NRZT 20183A A1	US64830KAA51	4.5	8,568,000	0.9025	103.457	7,999,970.59	4.48	3.88	3.57	DM	120	117	BK OF AM	CMO NON NA	No	New Trade
7	TRAILER 4																						

AIG

Walkthrough Sample – NY CIPI - CA-1403936

Support for Credit Impairment Purchase Identification assessment

From: Magdivera, Stella
Sent: Tue 4/16/2019 2:57 PM
To: Korrell, Thomas; Clemons, Stuart; Sharma, Sudhir; Fulmer, Ryan; Lee, Douglas; Spilberg, Greg; Gorshkov, Victor
Cc:
Subject: NRZT 2018-3A A1 (64830KAA5) - Purchase Summary

Message | Baseline - Base_Base - 64830KAA5 - Cash Flow Data.csv | 0 CDR - Base_Base - 64830KAA5 - Cash Flow Data.csv | Non-Agency Final Purchase Summary_NRZT 2018-3A A1_04.16.19.xlsm

Tom,

Attached is the final trade data for today's NRZT 2018-3A A1 (64830KAA5) purchase from ML. The bond is not projected to take a principal writedown in the base case but I am attaching the base and 0 CDR cash flows for your consideration. Thank you,

Stella

Non-Agency Final Purchase Summary_NRZT 2018-3A A1_04.16.19 [Read-Only] - Microsoft Excel

File | Home | Insert | Page Layout | Formulas | Data | Review | View | Acrobat

C7 | NRZT 2018-3A A1

AIG

LPRM-Intex Interface v2.84_NRMLT 2018-3A A1_FINAL PURCHASE SUMMARY_04.16.19.xlsm

Assign Model Path

ML

#	Cusip	Bond	Original Face	Factor	Current Face	Purchase Price	Proceeds*	Loan Count	Collateral Type	Tranche Type	Tranche Credit	Monoline Exposure	Coupon	Coupon Type	Day Count	Base Mod Duration	Base Mod Convexity	Base Principal Writedown
1	64830KAA5	NRZT 2018-3A A1	30,000,000	0.9025	27,075,107	103.457031	28,011,102	6732	RPL	Passthrough	Senior	No	4.5	Net WAC Fixed	30/360	3.9	0.3	0.0
			30,000,000		**27,075,107**	**103.457**	**28,011,102**									**3.9**	**0.3**	**0.0**

AIG

LPRM-Intex Interface v2.84_NRMLT 2

Assign Model Path

ML

#	Cusip	Bond	Base Mod Convexity	Base Principal Writedown	Optimistic pWAL	Optimistic Yield	Optimistic N-Spread	Optimistic DM	Baseline pWAL	Baseline Yield	Baseline N-Spread	Baseline DM	Severe Financial pWAL	Severe Financial Yield	Severe Financial N-Spread	Severe Financial DM	Severe Financial Plus pWAL	Severe Financial Plus Yield	Severe Financial Plus N-Spread	Severe Financial Plus DM	Consumer (Life) NAIC Break Points	Consumer (Life) Expected 12/31/2018 NAIC Rating	Commercial (P&C) NAIC Break Points	Commercial (P&C) Expected 12/31/2018 NAIC Rating
1	64830KAA5	NRZT 2018-3A A1	0.3	0.0	4.3	3.5	115	118	4.5	3.6	117	120	4.9	3.6	123	126	4.9	3.6	124	127	Not Modeled	1	Not Modeled	1
			0.3	**0.0**	**4.3**	**3.5**	**115**	**118**	**4.5**	**3.6**	**117**	**120**	**4.9**	**3.6**	**123**	**126**	**4.9**	**3.6**	**124**	**127**				

AIG

NY OTTI Process and Cashflow review – SOX Controls

Control CA-1403571 (Risk – Medium, Frequency – Quarterly)	
Description	**Additional Description**
Quarterly, the Structured Product Group's Senior Management and the AIG Chief Credit Officer review and approve assumptions utilized in the structured products OTTI process contained within the OTTI memo. The OTTI memo includes results of the OTTI assessments. Approval is evidenced via sign off of the memo by the AMG Chief Credit Officer or ERM Chief Risk Officer.	

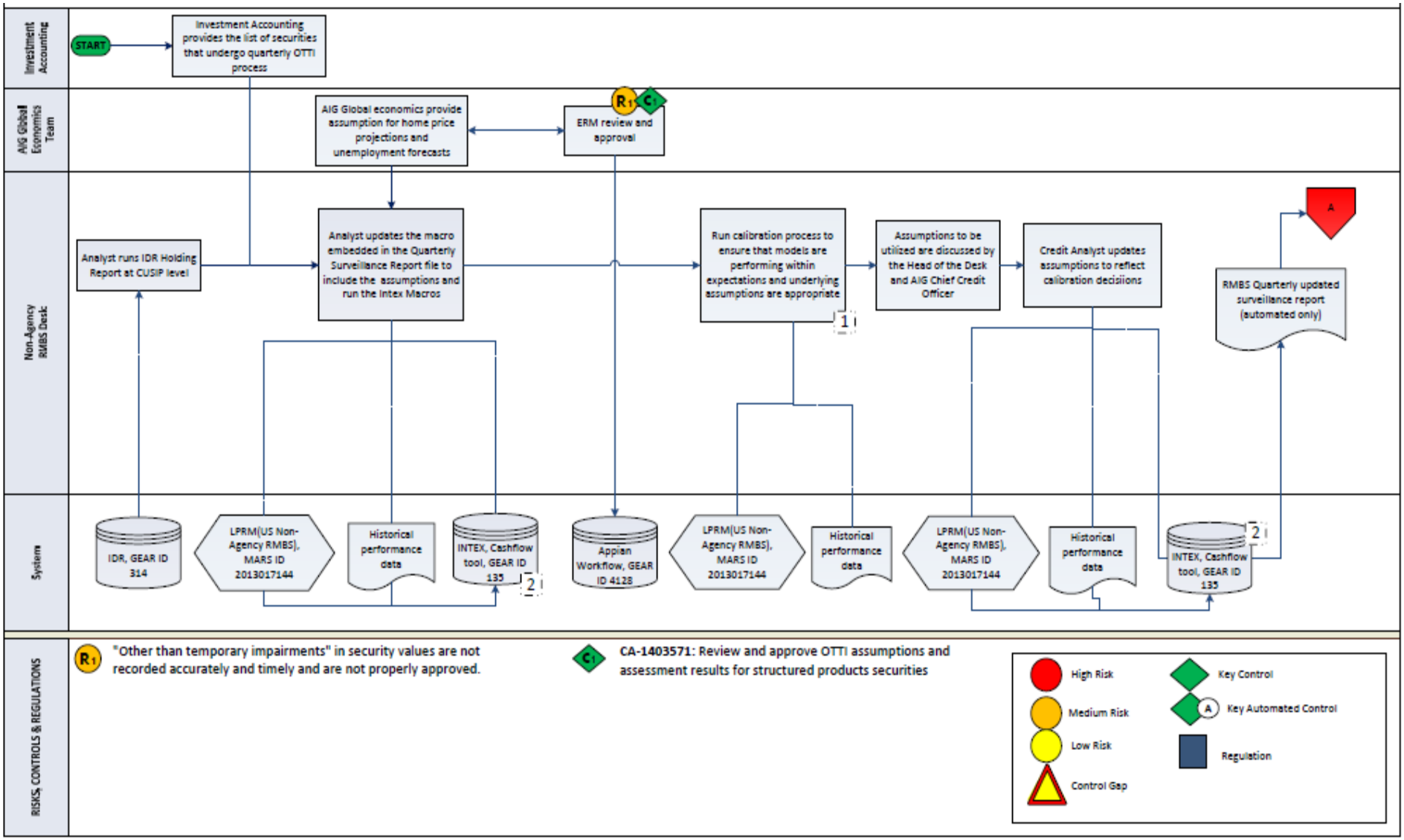
Control CA-1403572 (Risk – Medium, Frequency – Quarterly)	
Description	**Additional Description**
Quarterly, the Head of each Structured Products desk reviews and approves its OTTI Investment Accounting template that contains recovery values and related cash flow files prior to submission to Investment Accounting. Management review is documented via email or Appian workflow tool approval of the investment Accounting template.	

Control CA-1404325 (Risk – Medium, Frequency – Quarterly)	
Description	**Additional Description**
Quarterly, the Investment Analyst signs off on the analysis where the OTTI analysis is performed manually. Management review and approval is evidenced through email or Appian workflow tool approval of the OTTI analysis file.	

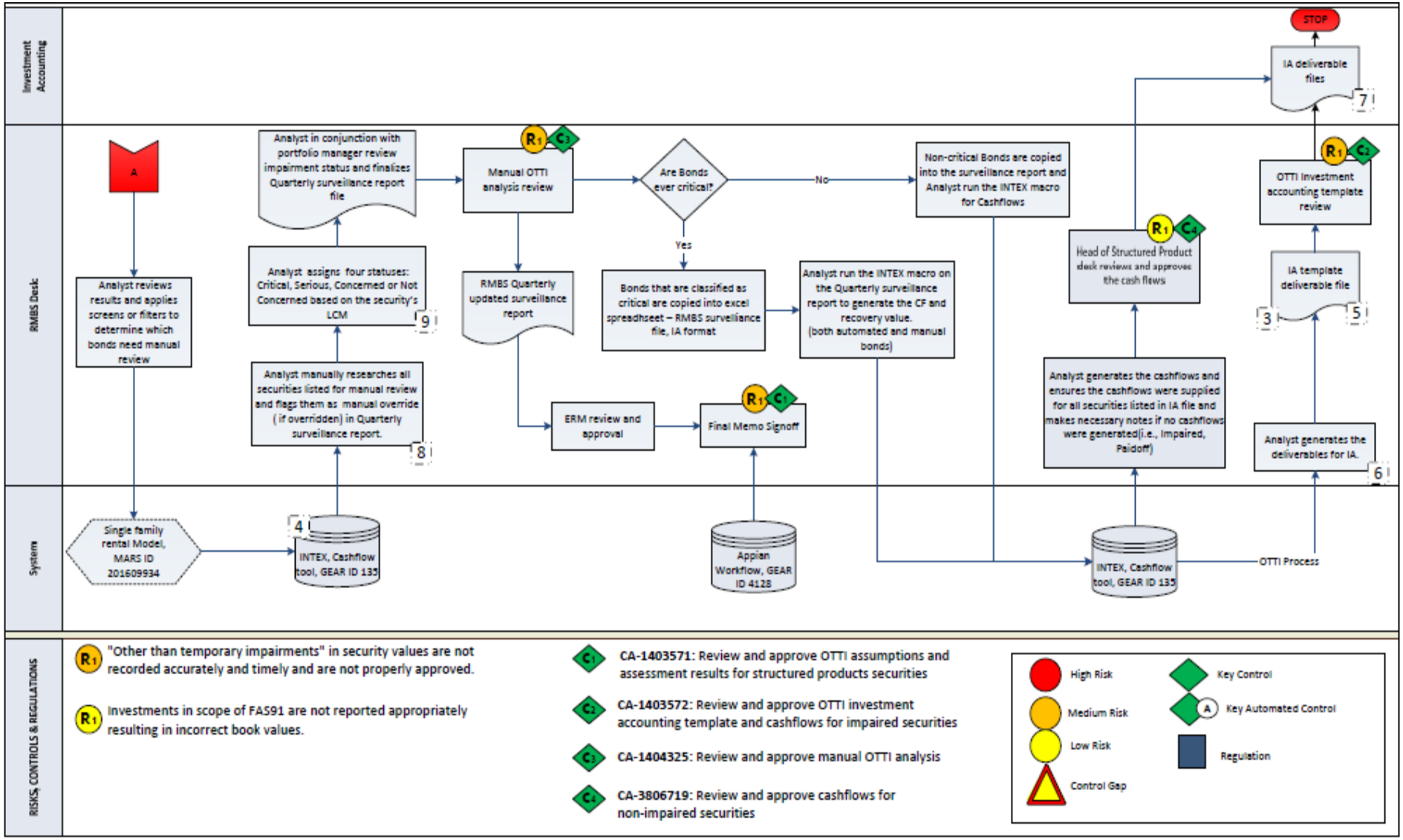
Control CA-3806719 (Risk – Low, Frequency – Quarterly)	
Description	**Additional Description**
Quarterly, the Head of Structured Product desk reviews and approves the cash flows calculated for non-credit impaired securities based on the population provided by Investment Accounting. The approved cash flow file is uploaded to Investment Accounting Sharepoint. Management review is documented via email or Appian workflow tool.	

On May 07 2019, Ryan Fulmer (US RMBS), Joseph Romano (US CMBS), Greg Spilberg (Public ABS), verified that these control descriptions are accurate for 2019.

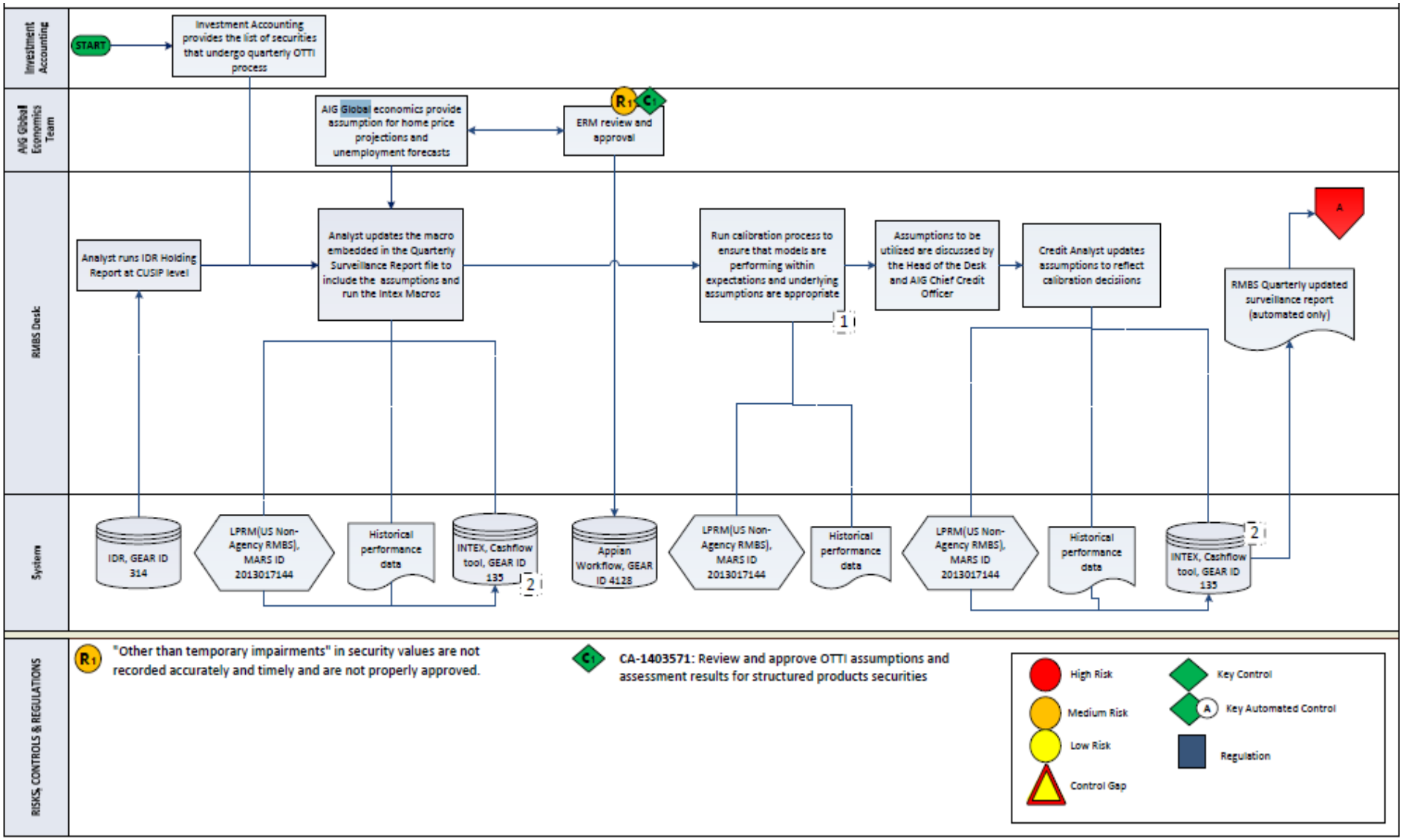
Process Flow - US Non-agency RMBS OTTI and cashflow review



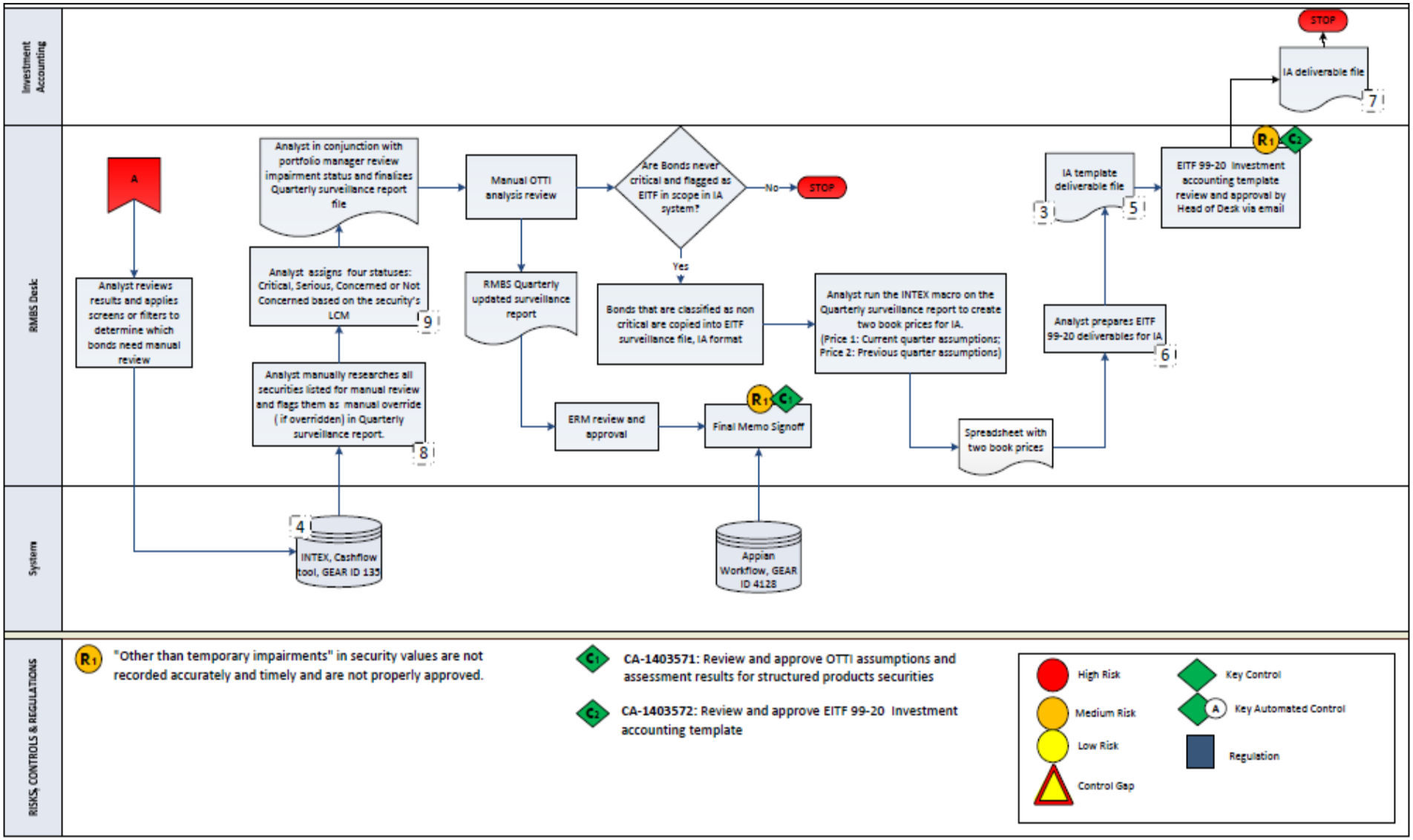
Process Flow - US Non-agency RMBS OTTI and cashflow review (Contd.)



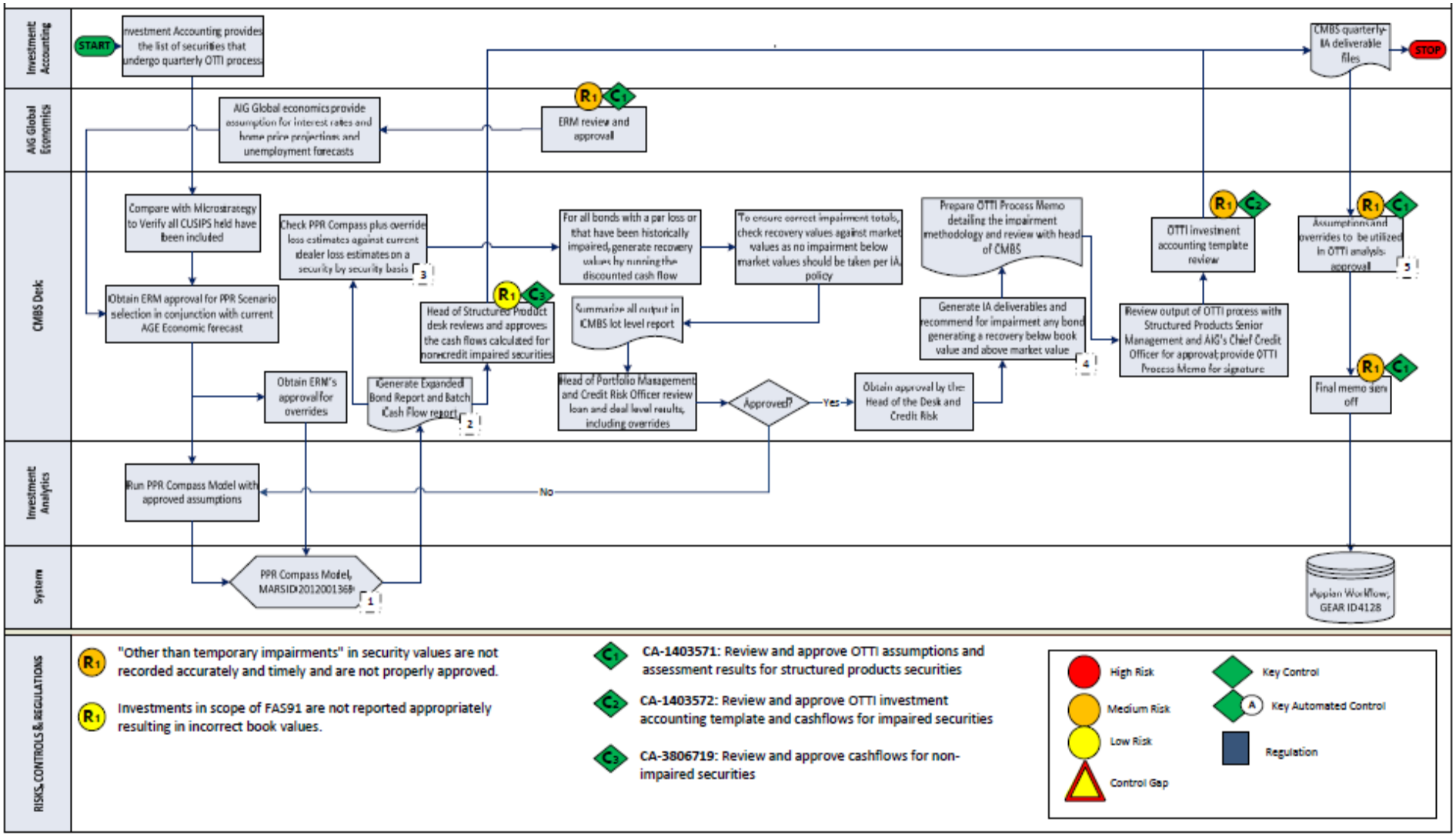
Process Flow - US EITF 99-20



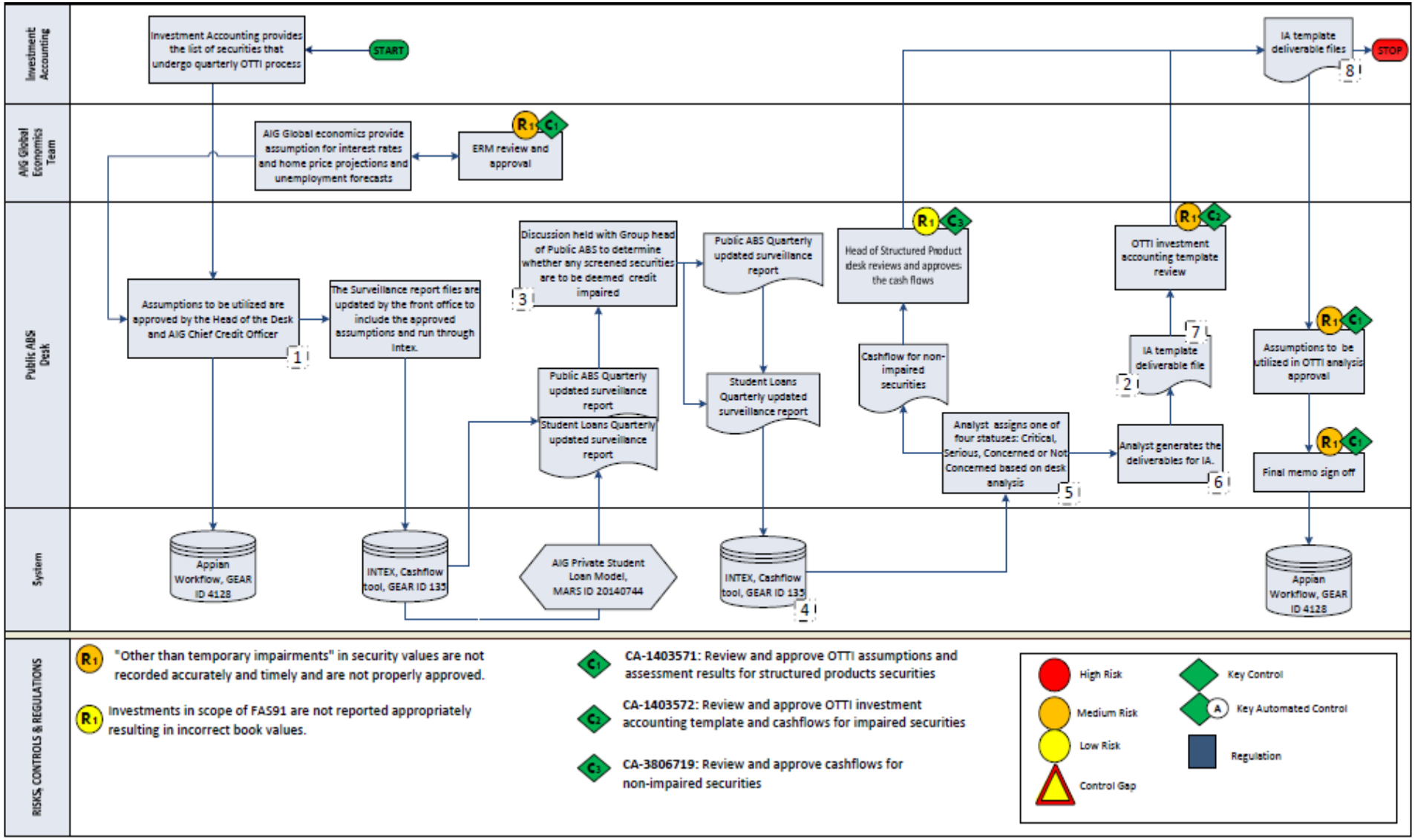
Process Flow - US EITF 99-20 (contd.)



Process Flow - US CMBS OTTI and cashflow review



Process Flow - US Public ABS OTTI and cashflow review



Walkthrough Sample – US RMBS OTTI - CA-1403572

Approval of RMBS OTTI Analysis and email to Investment Accounting communicating the deliverables of Q1 2019 – GAAP & STAT

From: Clemons, Stuart
To: Kang, Samuel; Silva, Rosa@InvestAcct; Yu, Connie
Cc: Fulmer, Ryan; Sharma, Sudhir; Magklivera, Stella
Subject: Q12019 Non Agency OTTI Templates Uploaded
Sent: Tue 3/12/2019 6:27 PM

Sam,
I have uploaded the Q1 2019 Non Agency RMBS GAAP and STAT deliverables templates to Share Point. The Discounted Recovery Value (Column W) is based on the "discount rate to use" provided to us in column BJ. If there are any changes to these discount rates, then we will need to provide corrected RVs.

- 1Q2019_OTTI Domestic GAAP Non Agency RMBS.xlsx
- 1Q2019_OTTI Domestic STAT Non Agency RMBS.xlsx

From: Fulmer, Ryan
To: Clemons, Stuart
Cc: Magklivera, Stella; Sharma, Sudhir
Subject: RE: Q12019 OTTI Deliverables Templates
Sent: Tue 3/12/2019 6:20 PM

Approved, subject to IA's comfort with the discount rates.

From: Clemons, Stuart
Sent: Tuesday, March 12, 2019 4:37 PM
To: Fulmer, Ryan <Ryan.Fulmer@aig.com>
Cc: Magklivera, Stella <Stella.Magklivera@aig.com>; Sharma, Sudhir <Sudhir.Sharma@aig.com>
Subject: Q12019 OTTI Deliverables Templates

Ryan,
I have filled in the GAAP and STAT OTTI deliverables templates that contain our expected lifetime principal and interest, sum of principal as a % of par, Undiscounted RV, and also the Discounted RV using the "Discount rate to use" that IA has supplied in column BJ.

The files can be found here:

M:\StructuredProducts\RESI CREDIT\OTTD Memos\2019 Q1\Deliverables Templates
- 1Q2019_OTTI Domestic GAAP Non Agency RMBS.xlsx
- 1Q2019_OTTI Domestic STAT Non Agency RMBS.xlsx

Please let me know if you approve to upload these deliverables templates to Share Point.

Walkthrough Sample – US RMBS OTTI - CA-1403572

Example of Investment Accounting Template Q1 2019 – RMBS US GAAP - Extract

1Q2019_OTTI Domestic GAAP Non Agency RMBS - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

A4 Credit Impaired Securities

	A	B	C	D	I	J	K	L	M	N	O	P	V	W	X	Y	Z	AA	AB	AC	AD	AE
1	Batch Seq #	Record Control	Acctng System Primary ID	Security Desc	Lot Number	Quantity	Orig Par Value U	Book Value USD GAAP	Market Value USD GAAI	USD GAAP Unrealized Gain/Loss	MVvsRV pct.	RE Rtg Owner BL	RE Credit Analys	Recvry Val % of Cur Par- Struc	Undisc Sum of Principal Recvd	Undisc Sum of Principal %CurPa r	Undisc Sum of Interest Recvd	Undiscounted Sum of Cash Fl	Undisc Sum Cash Flow % CurP	Discount Rate Override ,if use	Comment3	Collateral Ma
4	Credit Impaired Securities																					
5	7	13130178	000780AW6	ABN AMRO Mortgage Co	182723382	286335.89	3739532	234699	248292.33	13593.41	105.79	Asset Ma	Un-Assigned	81.93	284,908	99.50	69,265	354,173	123.88			RMBS NC
6	383	13130879	00441TAA1	Ace Securities Corp. SEF	218842031	7771839.69	45610000	4895432	5924922.61	1029490.61	121.03	Asset Ma	Un-Assigned	68.07	5,997,793	77.17	1,592,865	7,590,658	97.91			RMBS NC
7	384	13130880	00441TAA1	Ace Securities Corp. SEF	218842034	8519885.65	50000000	5366621	6495201.28	1128580.28	121.03	Asset Ma	Un-Assigned	68.07	6,575,085	77.17	1,746,179	8,321,265	97.91			RMBS NC
8	385	13130881	00441TAA1	Ace Securities Corp. SEF	217985953	1459456.41	8565000	919302	1112627.98	193325.98	121.03	Asset Ma	Un-Assigned	68.07	1,126,312	77.17	299,121	1,425,433	97.91			RMBS NC
9	386	13130882	00441TAA1	Ace Securities Corp. SEF	217985961	8519885.65	50000000	5366621	6495201.28	1128580.28	121.03	Asset Ma	Un-Assigned	68.07	6,575,085	77.17	1,746,179	8,321,265	97.91			RMBS NC
10	387	13130883	00441TAA1	Ace Securities Corp. SEF	217985956	8519885.65	50000000	6341484	6495201.28	153717.28	102.42	Asset Ma	Un-Assigned	68.07	6,575,085	77.17	1,746,179	8,321,265	97.91			RMBS NC
11	388	13130884	00441TAA1	Ace Securities Corp. SEF	215477096	8519885.65	50000000	5366621	6495201.28	1128580.28	121.03	Asset Ma	Un-Assigned	68.07	6,575,085	77.17	1,746,179	8,321,265	97.91			RMBS NC
12	389	13130885	00441TAA1	Ace Securities Corp. SEF	215477102	8519885.65	50000000	5366621	6495201.28	1128580.28	121.03	Asset Ma	Un-Assigned	68.07	6,575,085	77.17	1,746,179	8,321,265	97.91			RMBS NC
13	390	13130886	00441TAA1	Ace Securities Corp. SEF	215477099	8519885.65	50000000	5366621	6495201.28	1128580.28	121.03	Asset Ma	Un-Assigned	68.07	6,575,085	77.17	1,746,179	8,321,265	97.907			RMBS NC
14	391	13130887	00441TAA1	Ace Securities Corp. SEF	215477093	8223393.63	48260000	5179862	6269168.27	1089306.27	121.03	Asset Ma	Un-Assigned	68.07	6,346,272	77.17	1,685,412	8,031,685	97.91			RMBS NC
15	392	13130888	00441TAA1	Ace Securities Corp. SEF	218560812	8519885.65	50000000	5366621	6495201.28	1128580.28	121.03	Asset Ma	Un-Assigned	68.07	6,575,085	77.17	1,746,179	8,321,265	97.91			RMBS NC
16	393	13130889	00441TAA1	Ace Securities Corp. SEF	218560809	1459456.41	8565000	919302	1112627.98	193325.98	121.03	Asset Ma	Un-Assigned	68.07	1,126,312	77.17	299,121	1,425,433	97.91			RMBS NC
17	394	13130890	00441TAA1	Ace Securities Corp. SEF	217984837	1459456.41	8565000	919302	1112627.98	193325.98	121.03	Asset Ma	Un-Assigned	68.07	1,126,312	77.17	299,121	1,425,433	97.91			RMBS NC
22	404	13130901	004421MW0	ACE SECURITIES CORP.	182748400	4776800.42	22680000	4682974	4825651.33	142677.13	103.05	Asset Ma	Un-Assigned	98.21	4,625,982	96.84	783,138	5,409,120	116.54			RMBS NC
23	405	13130902	004421MW0	ACE SECURITIES CORP.	182748675	1263703.82	6000000	1239056	1276627.34	37571.72	103.03	Asset Ma	Un-Assigned	98.22	1,223,805	96.84	207,179	1,430,984	116.54			RMBS NC
24	415	13130912	00442KAC5	Ace Securities Corp. SEF	215477105	8750053.87	20393675	4408228	4771892.63	363664.63	108.25	Asset Ma	Un-Assigned	50.55	4,979,025	56.90	1,228,303	6,207,328	71.07			RMBS NC
25	416	13130913	00442KAC5	Ace Securities Corp. SEF	218560818	1844946.12	4300000	929474	1006152.07	76678.07	108.25	Asset Ma	Un-Assigned	50.55	1,049,826	56.90	258,987	1,308,813	71.07			RMBS NC
26	417	13130914	00442KAD3	Ace Securities Corp. SEF	215317252	2274003.36	5300000	1156737	1251482.97	94745.97	108.19	Asset Ma	Un-Assigned	51.18	1,293,971	56.90	331,447	1,625,418	71.61			RMBS NC
27	418	13130915	00442KAD3	Ace Securities Corp. SEF	215477108	5348665.72	12466089	2720751	2943603.41	222852.41	108.19	Asset Ma	Un-Assigned	51.18	3,043,540	56.90	779,593	3,823,134	71.61			RMBS NC
41	433	13131012	007036QE9	Adjustable Rate Mortgag	218560859	2357232.81	17255000	2110964	2152690.76	41726.76	101.98	Asset Ma	Un-Assigned	90.11	2,252,306	95.55	327,514	2,579,820	109.49			RMBS NC
42	496	13131015	007036RU2	Adjustable Rate Mortgag	218560868	5829010.93	10994000	4717963	5527681.38	809718.38	117.16	Asset Ma	Un-Assigned	94.23	5,656,418	97.04	1,007,700	6,664,118	114.33			RMBS NC
43	497	13131016	007036RU2	Adjustable Rate Mortgag	218558548	5829010.93	10994000	4717963	5527681.38	809718.38	117.16	Asset Ma	Un-Assigned	94.23	5,656,418	97.04	1,007,700	6,664,118	114.33			RMBS NC
44	498	13131017	007036SC1	Adjustable Rate Mortgag	215477117	7514101.47	55983000	6880145	6872792.45	-7352.55	99.893	Asset Ma	Un-Assigned	94.37	7,066,863	94.05	1,408,152	8,475,015	113.93			RMBS NC
54	508	13131027	007036UQ7	Adjustable Rate Mortgag	218842964	4262334.31	53114000	3253011	3032018.76	-220992.24	93.207	Asset Ma	Un-Assigned	76.76	3,025,147	70.97	926,594	3,951,741	93.27			RMBS NC
2846	42895	13226040	36185MBL5	GMAC Mortgage Corpora	231461482	170694.07	1400000	163890	161150.92	-2739.08	98.329	Asset Ma	Un-Assigned	92.29	147,784	86.58	22,165	169,949	107.93			RMBS NC
2847	42896	13226041	36185MBL5	GMAC Mortgage Corpora	231259365	2050970.55	16821667	1983541	1936305.1	-47235.9	97.619	Asset Ma	Un-Assigned	93.00	1,775,699	86.58	266,320	2,042,019	107.93			RMBS NC
2848	42897	13226042	36185MBL5	GMAC Mortgage Corpora	231270670	2050970.43	16821666	1983541	1936304.98	-47236.02	97.619	Asset Ma	Un-Assigned	93.00	1,775,699	86.58	266,320	2,042,018	107.93			RMBS NC
2849	42898	13226043	36185MBL5	GMAC Mortgage Corpora	231259361	2050970.55	16821667	1983541	1936305.1	-47235.9	97.619	Asset Ma	Un-Assigned	93.00	1,775,699	86.58	266,320	2,042,019	107.93			RMBS NC
2850	42902	13226096	US126694GR3	Countrywide Home Loan:	231259366	3136541.14	19650000	3131245	2901932.26	-229312.74	92.677	Asset Ma	Un-Assigned	98.61	3,027,214	96.51	635,464	3,662,678	119.31			RMBS NC
2851	42903	13226097	US126694GR3	Countrywide Home Loan:	231270671	3136541.14	19650000	3131184	2901932.26	-229251.74	92.678	Asset Ma	Un-Assigned	98.98	3,027,214	96.51	635,464	3,662,678	119.31			RMBS NC
2852	42904	13226098	US126694GR3	Countrywide Home Loan:	231259362	3136541.14	19650000	3131184	2901932.26	-229251.74	92.678	Asset Ma	Un-Assigned	98.98	3,027,214	96.51	635,464	3,662,678	119.31			RMBS NC
2855																						
2856	Non Credit Impaired Securities																					
2857	8	13130179	000780NC6	ABN AMRO Mortgage Co	191029785	979973.77	3639951	949912	964065.46	14153.88	101.49	Asset Ma	Un-Assigned									RMBS NC
2858	9	13130180	000780ND4	ABN AMRO Mortgage Co	182723684	451402.57	1668310	345294	431374.65	86080.92	124.93	Asset Ma	Un-Assigned									RMBS NC

Sheet1

Walkthrough Sample – US RMBS OTTI - CA-1403572

Example of Investment Accounting Template Q1 2019 – RMBS US STAT - Extract

1Q2019_OTTI Domestic STAT Non Agency RMBS - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

A1 Batch Seq #

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	V	W	X	Y	Z
1	Batch Seq #	Record Control #	Accting System Primary ID	Security Desc	GL Group	Accountingsysportfolio ID	Accountingsysportfolion ame	Portfolio	Lot Number	Quantity	Orig Par Value USD	Book Value USD GAAP	Market Value USD GAAP	USD GAAP Unrealized Gain/Loss	MVvsBV pct.	RE Rtg Owner BL	RE Credit Analyst	Recvry Val % of Cur Par-Struct	Undisc Sum of Principal Recvd	Undisc Sum of Principal%CurPar	Undisc Sum of Interest Recvd
4	**Impaired Securities**																				
5	471	13130990	007034BN	Adjustab	0	129695	AIG-VALI	AIG-VALI	215475737	9165083.22	17791000	8098307.34	8463205.56	364898	104.506	Asset Ma	Un-Assigned	92.84	8,612,753	94.0	2,255,726
6	472	13130991	007034BN	Adjustab	0	129024	AIG-AH P	AIG-AH P	218556262	9165083.22	17791000	8111497.1	8463205.56	351708	104.336	Asset Ma	Un-Assigned	91.76	8,612,753	94.0	2,255,726
7	767	13131516	02149QA	Countryw	0	129214	AIG-LEX-1	AIG-LEX-1	217984161	12658374.8	39425750	10686159.23	11157361.21	471202	104.409	Asset Ma	Un-Assigned	82.83	12,266,534	96.9	2,775,650
8	768	13131517	02149QA	Countryw	0	128706	AIG-AGL-	AIG-AGL-	226229165	7705649.13	24000000	6864743.08	6791923.27	-72819.8	98.9392	Asset Ma	Un-Assigned	84.28	7,467,120	96.9	1,689,647
9	769	13131518	02149QA	Countryw	0	128706	AIG-AGL-	AIG-AGL-	218841228	15802761.3	49219250	13972110.52	13928890.4	-43220.1	99.6907	Asset Ma	Un-Assigned	81.59	15,313,586	96.9	3,465,131
10	779	13131535	02150TAD	Countryw	0	129024	AIG-AH P	AIG-AH P	218557298	6598342.08	20446000	5348549.76	5929925.41	581376	110.87	Asset Ma	Un-Assigned	79.41	6,434,972	97.5	1,502,961
11	780	13131536	02150TAD	Countryw	0	129024	AIG-AH P	AIG-AH P	218557295	16136021.9	50000000	12981248.55	14501431.59	1520183	111.711	Asset Ma	Un-Assigned	79.30	15,736,507	97.5	3,675,440
22	2534	13134213	05541YAV	BCAP LLC	0	129695	AIG-VALI	AIG-VALI	215475785	7082925.27	12883000	6159720.16	6357665.31	197945	103.214	Asset Ma	Un-Assigned	81.92	6,793,815	95.9	1,198,216
23	2535	13134214	05541YAV	BCAP LLC	0	129024	AIG-AH P	AIG-AH P	218556336	3035879.88	5521905	2565431.71	2725019.32	159588	106.221	Asset Ma	Un-Assigned	82.12	2,911,962	95.9	513,579
24	2797	13134670	05946XSC	Banc of A	0	128760	AIG-AGL-	AIG-AGL-	182752011	2333324.44	12614400	2319344.7	2443504.96	124160	105.353	Asset Ma	Un-Assigned	96.97	2,323,981	99.6	788,757
25	2934	13134856	05955YAY	Banc of A	0	129695	AIG-VALI	AIG-VALI	215475812	4607579.51	7973276	3744278.49	4228707	484429	112.938	Asset Ma	Un-Assigned	79.35	3,647,527	79.2	1,637,256
26	2935	13134857	05955YAY	Banc of A	0	129695	AIG-VALI	AIG-VALI	215475793	10966228.3	18976724	8911536.46	10064496.16	1152960	112.938	Asset Ma	Un-Assigned	79.35	8,681,263	79.2	3,896,737
27	2936	13134858	05955YAY	Banc of A	0	129695	AIG-VALI	AIG-VALI	215475823	15577243.3	26955945	12658605.83	14296356.15	1637750	112.938	Asset Ma	Un-Assigned	79.35	12,331,510	79.2	5,535,215
28	2961	13134938	05990QAF	Banc of A	0	129024	AIG-AH P	AIG-AH P	218556354	1927421.2	4229388	1297852.88	1010714.81	-287138	77.8759	Asset Ma	Un-Assigned	63.84	1,214,787	63.0	485,602
29	2962	13134939	05990QAF	Banc of A	0	129497	AIG-USL-2	AIG-USL-2	218556102	4496599.74	9867000	3034155.86	2357958.9	-676197	77.7138	Asset Ma	Un-Assigned	63.87	2,834,051	63.0	1,132,891
30	3239	13135448	073868AA	Bear Stea	0	128706	AIG-AGL-	AIG-AGL-	182756465	2049487.39	21654000	1557232.47	2026939.33	469707	130.163	Asset Ma	Un-Assigned	103.95	2,417,705	118.0	340,710
31	3251	13135460	07386HQ	Bear Stea	0	129214	AIG-LEX-1	AIG-LEX-1	217984200	4812091.82	50000000	4140638.34	4376449.77	235811	105.695	Asset Ma	Un-Assigned	92.45	4,484,703	93.2	953,963
32	3252	13135461	07386HQ	Bear Stea	0	129214	AIG-LEX-1	AIG-LEX-1	217984209	4812091.82	50000000	4140638.34	4376449.77	235811	105.695	Asset Ma	Un-Assigned	92.45	4,484,703	93.2	953,963
33	3253	13135462	07386HQ	Bear Stea	0	129214	AIG-LEX-1	AIG-LEX-1	217984193	1775969.85	18453200	1528160.94	1615190.06	87029.1	105.695	Asset Ma	Un-Assigned	92.45	1,655,142	93.2	352,073
34	3254	13135463	07386HQ	Bear Stea	0	129497	AIG-USL-2	AIG-USL-2	218556177	4812091.82	50000000	4214670.86	4376449.77	161779	103.838	Asset Ma	Un-Assigned	90.49	4,484,703	93.2	953,963
35	3255	13135464	07386HQ	Bear Stea	0	129497	AIG-USL-2	AIG-USL-2	218556154	4715849.98	49000000	4130377.39	4288920.78	158543	103.838	Asset Ma	Un-Assigned	90.49	4,395,009	93.2	934,883
36	3256	13135465	07386HQ	Bear Stea	0	128706	AIG-AGL-	AIG-AGL-	226229168	4812091.82	50000000	4188194.43	4376449.77	188255	104.495	Asset Ma	Un-Assigned	90.98	4,484,703	93.2	953,963
261	6340	13148342	23242GA	Countryw	0	129024	AIG-AH P	AIG-AH P	218561317	122585.5	80150000	0	122256.43	122256	0	Asset Ma	Un-Assigned	-	-	0.0	-
262	28962	13191244	361856CV	GMAC Mc	0	128876	AIG-AGL-	AIG-AGL-	218840797	2557645.5	75000000	0	2471630.09	2471630	0	Asset Ma	Un-Assigned	89.81	2,425,110	94.8	111,240
265																					
266	**Non Impaired Securities**																				
267	347	13130823	004375BZ	Accredite	0	129547	AIG-USL-2	AIG-USL-2	191614825	9187451.98	15000000	9154169.24	9209497.27	55328	100.604	Asset Ma	Un-Assigned				
268	402	13130898	00441YAA	Ace Secu	0	129497	AIG-USL-2	AIG-USL-2	218556691	6730894.15	47924000	5933679.16	6471646.36	537967	109.066	Asset Ma	Un-Assigned				
269	485	13131004	007036HY	Adjustab	0	129024	AIG-AH P	AIG-AH P	218557266	2651546.45	41561000	2470975.19	2512233.14	41258	101.67	Asset Ma	Un-Assigned				
270	812	13131568	02151RAA	Countryw	0	129214	AIG-LEX-1	AIG-LEX-1	217985004	10505596.2	50000000	9260084.04	9982107.59	722024	107.797	Asset Ma	Un-Assigned				

Sheet1

Walkthrough Sample – US RMBS cashflow review - CA-3806719

Approval of Cashflow files for non-impaired non-agency RMBS and email to Investment Accounting communicating the cashflow deliverables

From: Clemons, Stuart
To: Yu, Connie; Kang, Samuel; Fulmer, Ryan
Cc: Sharma, Sudhir; Magklivera, Stella
Subject: Non-Agency Non-Impaired CFs Uploaded
Sent: Fri 3/15/2019 3:52 PM

Sam & Connie,
I have uploaded the non-agency non-impaired RMBS deliverables template and cashflow files to SharePoint. The two files I uploaded are named this:

Deliverables Template

- Non impaired Non Agency CFsQ12019 Non Agency Non Impaired Securities - Log.xlsx

Cashflow Files

- Non Agency Non Impaired CFs

Let me know if you need anything else.

From: Fulmer, Ryan
To: Clemons, Stuart
Cc:
Subject: RE: Q12019 Non Impaired Non-Agency CFs
Sent: Fri 3/15/2019 3:27 PM

approved

Next Last

From: Clemons, Stuart
Sent: Friday, March 15, 2019 3:20 PM
To: Fulmer, Ryan <Ryan.Fulmer@aig.com>
Cc: Sharma, Sudhir <Sudhir.Sharma@aig.com>; Magklivera, Stella <Stella.Magklivera@aig.com>
Subject: Q12019 Non Impaired Non-Agency CFs

Ryan,
I have run the non–impaired non-agency cashflows. Below are the locations for the deliverables template and cashflow files. I ran the 373 lots that are non-impaired, and excluded the 50 lots that have $0 balance and the three lots that became first time impaired in Q1.

Deliverables Template
M:\StructuredProducts\RESI CREDIT\OTTD Memos\2019 Q1\List of Q119 Non Credit Impaired Securities - Log.xlsx

Cashflow Files
M:\StructuredProducts\RESI CREDIT\OTTD Memos\2019 Q1\Non Impaired CFs

The model I used to run these securities (with assumptions) can be found here:
M:\StructuredProducts\RESI CREDIT\Surveillance\2019\Q1 2019\20191Q Surveillance Macro\LPRM-Intex Interface v2.83 - Non Impaired Bonds.xlsm

Please review and let me know if you approve for me to upload to Share Point.

AIG

Walkthrough Sample – US RMBS cashflow review - CA-3806719

Example of Cashflow file for non-impaired securities posted in the IA sharepoint - Extract

NI Base - Base_Base - 00077B5D1 - Cash Flow Data - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

A54 Period

	A	B	C	D	E	F	G	H	I	J	K
53											
54	Period	Principal	Interest	Total CF	Balance	Princ Writedown	Gross Writedown				
55	Total	150535.58	34759.23	185294.81		0	0				
56	20190228	0	0	0	150535.58	0	0				
57	20190325	2540.06	721.32	3261.37	147995.52	0	0				
58	20190425	2534.01	709.15	3243.15	145461.51	0	0				
59	20190525	2584.5	697	3281.51	142877.01	0	0				
60	20190625	2921.93	684.62	3606.55	139955.08	0	0				
61	20190725	2002.2	670.62	2672.82	137952.88	0	0				
62	20190825	2322.97	661.02	2984	135629.91	0	0				
63	20190925	2768.36	649.89	3418.25	132861.55	0	0				
64	20191025	2433.15	636.63	3069.78	130428.4	0	0				
65	20191125	2524.99	624.97	3149.96	127903.41	0	0				
66	20191225	2426.79	612.87	3039.66	125476.62	0	0				
67	20200125	2907.66	601.24	3508.91	122568.95	0	0				
68	20200225	1973.47	587.31	2560.78	120595.49	0	0				
69	20200325	1815.95	577.85	2393.81	118779.53	0	0				
70	20200425	2461.63	569.15	3030.78	116317.91	0	0				
71	20200525	2740.3	557.36	3297.66	113577.61	0	0				
72	20200625	2043.88	544.23	2588.11	111533.72	0	0				
73	20200725	2437.33	534.43	2971.76	109096.39	0	0				
74	20200825	1961.3	522.75	2484.05	107135.09	0	0				
75	20200925	1894.24	513.36	2407.6	105240.85	0	0				
76	20201025	2044.42	504.28	2548.7	103196.43	0	0				
77	20201125	1914.21	494.48	2408.69	101282.22	0	0				
78	20201225	1155.25	485.31	1640.56	100126.97	0	0				
79	20210125	1804.12	479.78	2283.9	98322.85	0	0				
80	20210225	2672.24	471.13	3143.37	95650.61	0	0				
81	20210325	1550.78	458.33	2009.11	94099.83	0	0				
82	20210425	1857.59	450.9	2308.49	92242.24	0	0				

NI Base - Base_Base - 00077B5D1

AIG

Walkthrough Sample – US RMBS OTTI - CA-1404325

Approval of Manual OTTI Analysis and assumptions for Q1 2019 - Extract

9928 : Assumptions: US - Q1/2019 for Non-Agency RMBS

Summary | News | Related Actions

Detail Status : Approved

Initiating | Review In-Progress | Approval In-Progress | **Approved**

General Information

Subject: Assumptions: US - Q1/2019 for Non-Agency RMBS
Year: 2019
Quarter: Q1
Region: US
Initiator:
Second Initiator: Sudhir Sharma

Request Submission Date: Mar 11, 2019 1:41 PM
Final Approval Due Date: Mar 20, 2019 8:00 PM
Asset Class: Non-Agency RMBS
Document Type: Assumptions

Document Version 2 for approval

Current Document

Version #	Attachment Name	Document Type	Role	Uploaded By	Uploaded On
2	9928_General Document Approval Final PDF		System	System	3/14/2019 6:03 PM EDT
2	LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version2		Initiator		3/11/2019 5:21 PM EDT

Reviewers Completed/In-Progress

Reviewer Level	Reviewer Name	Reviewed Documents Name	Comments	Decision	Assigned On	Completed On
1	Ryan Fulmer	LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version2	revised version approved		3/11/2019 5:21 PM EDT	3/11/2019 6:01 PM EDT
1	Ryan Fulmer	LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version1	please make changes discussed		3/11/2019 1:44 PM EDT	3/11/2019 4:51 PM EDT

AIG

Walkthrough Sample – US RMBS OTTI - CA-1404325

Approval of Manual OTTI Analysis and assumptions for Q1 2019 - Extract

Approvals Completed/In-Progress

Approval Level	Approver Name	Approved Documents Name	Comments	Decision	Assigned On	Completed On
3	Andrew Payne	LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version2	Approved.		3/14/2019 1:43 PM EDT	3/14/2019 6:03 PM EDT
2	David Naranjo Setien	LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version2	Approved.		3/13/2019 2:50 PM EDT	3/14/2019 12:36 PM EDT
2	Kenneth Mcgloin	LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version2	Approved		3/13/2019 2:50 PM EDT	3/13/2019 6:47 PM EDT
2	David Kogan	LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version2	returned as requested		3/13/2019 11:54 AM EDT	3/13/2019 12:29 PM EDT
2	Kenneth Mcgloin	LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version2			3/13/2019 11:54 AM EDT	

1 – 5 of 7

Approvals Completed/In-Progress

Approval Level	Approver Name	Approved Documents Name	Comments	Decision	Assigned On	Completed On
1	Ryan Fulmer	LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version2	approved		3/13/2019 11:39 AM EDT	3/13/2019 11:54 AM EDT
1	Ryan Fulmer	LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version2	Approval time expired and was returned to initiator.		3/11/2019 6:01 PM EDT	

6 – 7 of 7

AIG

Walkthrough Sample – US RMBS OTTI - CA-1404325

Approved US RMBS manual OTTI Analysis and assumptions for Q1 2019 - Extract

LPRM-Intex Interface v2.83 - Q1 2019 Surveillance_version2 [Read-Only] - Microsoft Excel

File | Home | Insert | Page Layout | Formulas | Data | Review | View | Acrobat

Security Warning Some active content has been disabled. Click for more details. Enable Content

IJ5 Severity Outlier

AIG

LPRM-Intex Interface

Run Reports

SM
SS
CL
SC

Portfolio	Security ID	Security Name	Sum of Current Face USD	Sum of Book Value USD GAAP	Sum of Market Value USD GAAP	1/31 Book Price	1/31 Mkt Price	Q4 Ever Impaired	Final Q1 2019 Ever Impaired	Analyst	Q1 Status	MV > $500k?	CPR Outlier AND Loan Count > 50	Severity Outlier	Fails Lifetime severity Test (?)	Fails Defaults vs DQ Screen	Assign for MV ($40mm Threshold)	Assign for MODEL bonds?	Assign for Manual Bonds	Assign for Deal Bonds	Overall Assigned	H
Q1 Surveillance	03306*AB1	#N/A Invalid Security	38,646,481	-	-	0.0	0	N	N	SC	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	03306*AH8	#N/A Invalid Security	39,493	-	-	0.0	0	N	N	SM	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	19034#AB2	#N/A Invalid Security	57,015	53,842	55,312	94.4	97.01335	N	N	SC	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	00077BKC6	AMAC 1999-RS1 A	60,813	62,197	50,416	102.3	82.90296	N	N	SC	Serious	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	05539TAP0	BFC 2004-1 1B1	70,050	71,144	71,276	101.6	101.7515	N	N	SC	Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	05539TAQ8	BFC 2004-1 1B2	127,904	115,586	96,056	90.4	75.1	N	N	SC	Serious	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	05539TAT2	BFC 2004-1 2B1	85,532	85,342	87,752	99.8	102.5955	N	N	SC	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	29477HAA3	EQVA 1997-A A	2,242,760	-	166,029	0.0	7.4029	Y	Y	SC	Critical	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	30253MAR3	FNT 2001-2 1B1	149,050	148,152	147,208	99.4	98.76392	N	N	SS	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	30253MAS1	FNT 2001-2 1B2	76,612	75,777	62,981	98.9	82.20842	N	N	SS	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	31359UPW9	FNW 1998-W3 B1	864,860	630,243	591,187	72.9	68.35637	Y	Y	SM	Critical	Y	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	31359UWE1	FNW 1998-W5 B1	1,357,628	1,344,072	1,384,843	99.0	102.0046	N	N	SM	Not Concerned	Y	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	437609AN0	HSMS 1998-1 M	189,442	187,810	189,250	99.1	99.89849	N	N	SM	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	45661FAB7	INDYL 2006-L2 A2	4,188,390	-	3,184,260	0.0	76.02586	Y	Y	SS	Critical	Y	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	493918A*7	KP 1993-1 B1	2,470	2,141	2,469	86.7	99.9498	N	N	SM	Serious	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	617445CG4	MSC 1996-1 B1	83,147	83,483	82,736	100.4	99.50635	N	N	SM	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	617445CL3	MSC 1996-1 B4	18,964	19,096	18,561	100.7	97.87196	N	N	SM	Serious	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	617445CM1	MSC 1996-1 B5	11,237	11,237	9,300	100.0	82.76292	Y	Y	SM	Critical	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	675748AE7	OCMBS 1998-R1 B1	6,766,613	3,694,135	6,161,542	54.6	91.05799	Y	Y	SC	Critical	Y	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	675748AF4	OCMBS 1998-R1 B2	8,579,394	-	3,053,044	0.0	35.58578	Y	Y	SC	Critical	Y	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	74434UCH5	PHMS 1994-A 2B	4,635	4,464	4,651	96.3	100.3307	N	N	SC	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	74434UCN2	PHMS 1994-A 3B5	4,615	4,655	4,607	100.9	99.81518	N	N	SM	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	74434UHX5	PHMS 1994-E 1B1	2,786	2,783	2,778	99.9	99.68775	N	N	SC	Not Concerned	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	07383UGB5	PRIME 2004-CL1A B1	6,850,109	5,192,710	5,851,265	75.8	85.41856	Y	Y	SC	Critical	Y	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	073914C43	SAMI 1998-2 D	86,595	25,840	1	29.8	0.000993	Y	Y	SS	Critical	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	073914C50	SAMI 1998-2 E	50,062	50,199	1	100.3	0.000999	Y	Y	SS	Critical	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	073914C68	SAMI 1998-2 F	62,233	0	1	0.0	0.000996	Y	Y	SS	Critical	N	N	N	N	N	N	N	Y	N	Y	No
Q1 Surveillance	073914C76	SAMI 1998-2 G	17,499	12,908	0	73.8	0.001029	Y	Y	SS	Critical	N	N	N	N	N	N	N	Y	N	Y	No

portfolioAnalysis | Surveillance Meet.03.06.19 | Offering Sheet | cashFlowAnalysis | rollRateModelAssumptions | ceOverrides | ceOverrides2

AIG

Walkthrough Sample – US RMBS OTTI - CA-1403571 and CA-1404325

Approval of RMBS OTTI memo for Q1 2019 - Extract

General Document Approval

General Information

Request ID : 10172

Subject : Q1 2019 Surveillance Memo

Submission Date : 4/26/2019 3:22 PM EDT

Final Approval Due Date : 5/31/2019 11:30 PM EDT

Initiator :

Second Initiator : Sudhir Sharma

Documents Approved : Q1 2019 OTTI - US Non-Agency RMBS_version1

Initiator Comments

Comments	Comments made by	Comments made on
Attached please find the Q1 2019 Surveillance Memo		4/26/2019 3:35 PM EDT

Reviewers Comments

Reviewer level	Reviewer Name	Reviewed Document Name	Comments	Decision	Assigned On	Completed On
1	Kenneth Mcgloin	Q1 2019 OTTI - US Non-Agency RMBS_version1	Review complete	Completed Review	4/26/2019 3:35 PM EDT	4/29/2019 2:25 PM EDT
1	David Naranjo Setien	Q1 2019 OTTI - US Non-Agency RMBS_version1	Reviewed.	Completed Review	4/26/2019 3:35 PM EDT	4/29/2019 3:58 PM EDT

Approvers Comments

Approval level	Approver Name	Approved Document Name	Comments	Decision	Assigned On	Completed On
1	Ryan Fulmer	Q1 2019 OTTI - US Non-Agency RMBS_version1	approved	Approved	4/29/2019 3:58 PM EDT	4/30/2019 10:18 AM EDT
2	Geoffrey Cornell	Q1 2019 OTTI - US Non-Agency RMBS_version1	Approved	Approved	4/30/2019 10:18 AM EDT	4/30/2019 3:45 PM EDT
3	Andrew Payne	Q1 2019 OTTI - US Non-Agency RMBS_version1	Approved.	Approved	4/30/2019 3:45 PM EDT	5/1/2019 12:14 PM EDT

AIG

Walkthrough Sample – US RMBS OTTI - CA-1403571

Q1 2019 - RMBS OTTI final memo - Extract

AIG

Memo

TO: Geoff Cornell, Ryan Fulmer, Andrew Payne, Ken McGloin, David Naranjo

CC: Sudhir Sharma

FROM: Stella Magkivera

DATE: April 26th, 2019

RE: Q1 2019 US Non-Agency RMBS Surveillance and OTTI Process

- **In Q1 2019, we used LPRM version 5.2 as approved by IVFA.**
- **We removed existing CRR, CDR and severity multiples and re-applied them where appropriate. A CRR multiple was not applied to pools with less than 50 loans.**
- **We assigned for Analyst review all bonds with a market value greater than or equal to $40mm vs $45mm in Q4.**

Surveillance of the US RMBS portfolio this quarter was performed primarily with the Loan Performance RiskModel (LPRM). LPRM is described in the document "Loan Performance Risk Model Assessment.doc" dated June 15th 2010. The version of LPRM used this quarter was LPRM 5.2.

Although LPRM is used to analyze approximately 99% of all assets in the US non-agency RMBS portfolio, its coverage of the US RMBS market is incomplete. In particular, LPRM does not model certain collateral types (e.g. HELOCs). Some securities utilize LPRM to run the underlying assets but analysis requires some adjustments (e.g. re-REMICs). Others cannot be run in LPRM at all and are analyzed using historical performance trends as a guide or, in the absence of such data, go through a purely manual review by an analyst. AIG Investments' non-agency exposure by the relevant modeling tool is broken out in the table below. The breakdown of the portfolio by collateral type and vintage is shown in Appendix B. Further, Appendix C breaks out portfolio purchases in Q1 2019, and Appendix D shows estimated OTTI for the quarter[1] as well as the percentage of the portfolio we took as OTTI per Quarter. Note that Appendix B represents the universe covered by the surveillance process.

Tools Used for Analysis	# of Cusips	1/31/2019 Par Value ($bn)	1/31/2019 Book Value ($bn)
Loan Performance RiskModel	**1524**	**$22.95**	**$15.44 (99.6%)**
Fully Automatic	*1520*	*$22.84*	*$15.43*
*Semi-Automatic**	*4*	*$0.01*	*$0.01*
Single Family Rental	**5**	**$0.10**	**$0.10**
Historical Performance Data	**34**	**$0.09**	**$0.06 (0.4%)**
Manual**	**27**	**$0.06**	**$0.01 (0.04%)**
Total	**1590**	**$23.10**	**$15.6 (100.0%)**

* Collateral performance vectors of underlying collateral are run through LPRM. However, running these bonds in Intex requires manual adjustments because they are typically a re-REMIC or were wrapped post issuance.
** Do not run through LPRM or the historical performance approach and require manual analysis.

Systems and Data Sources

Collateral information to model transactions is pulled from either the Loan Performance database or Intex. In the case of LPRM, the collateral data is granular by loan and includes characteristics such as FICO, LTV, documentation, occupancy status, etc. In addition, LPRM uses interest rates from Intex, and home price forecasts that AIG Global Economics creates and ERM approves as inputs. In contrast, bonds that do not run through LPRM rely on historical aggregate pool level data, such as CPR, CDR and the percentage of the pool that is seriously delinquent.

Based on these inputs, both approaches produce monthly projections of voluntary prepayments (CRR), defaults (CDR), loss severity and delinquencies. These vectors are applied to each security using Intex, which then produces bond-level principal and interest cashflows. A spreadsheet macro written in Visual Basic has been developed to substantially automate this process.

Modeling Assumptions

Note: For modeling purposes, collateral data from LPRM was as of 1/31/2019. The forward interest rate curves used in Intex were as of 02/28/2019. Intex deals were updated as of the 02/25/2019 remittance (when available).

The major inputs to LPRM are interest rates and home price projections.

Interest rates used in both LPRM and the historical data approach are based on the Intex forward curve. For indices that do not have a maturity-derived forward curve – such as the 30-year mortgage rate – we generate forward curves based on the current spread of the index to Treasuries or libor.

The **home price projections** used in LPRM are the Baseline scenario produced by the AIG Global Economics (AGE) team, which are vetted and approved by Enterprise Risk Management (ERM).

AGE provides home price projections at the CBSA level based on the CoreLogic HPI index. AGE's projections aggregated up to the national level, as well as for a few large CBSAs, are shown below. Prices in the chart are normalized to 1 as of December 2018, which was the latest update of the CoreLogic index when surveillance was performed. It is important to note that individual CBSA projections may differ significantly from national level projections.

AIG

Walkthrough Sample – EITF 99-20- CA-1403572

Approval of EITF 99-20 Analysis and email to Investment Accounting communicating the deliverables of Q1 2019 – GAAP & STAT

From: "Magklivera, Stella" <Stella.Magklivera@aig.com>
Date: March 18, 2019 at 1:15:35 PM EDT
To: "Kang, Samuel" <Samuel.Kang@aig.com>
Cc: "Sharma, Sudhir" <Sudhir.Sharma@aig.com>
Subject: Q1 2019 GAAP & STAT EITF 9920

Sam,

The Q1 2019 GAAP & STAT EITF 9920 files are posted on Sharepoint. Please, let me know if you have any questions. Thank you,

Stella

- GAAP EITF 9920-Book Pxs for NonImpaired NonAgy RMBS bonds-Q1 2019 - For IA
- STAT EITF 9920-Book Pxs for NonImpaired NonAgy RMBS bonds-Q1 2019 - For IA

From: Fulmer, Ryan
Sent: Monday, March 18, 2019 11:59 AM
To: Magklivera, Stella <Stella.Magklivera@aig.com>
Cc: Sharma, Sudhir <Sudhir.Sharma@aig.com>
Subject: RE: GAAP & STAT EITF 9920 Q1 2019

approved

From: Magklivera, Stella
Sent: Monday, March 18, 2019 11:30 AM
To: Fulmer, Ryan <Ryan.Fulmer@aig.com>
Cc: Sharma, Sudhir <Sudhir.Sharma@aig.com>
Subject: GAAP & STAT EITF 9920 Q1 2019

Ryan,

Attached please find the GAAP and STAT EITF 9920 Q1 2019 files. Please, let us know if you approve after our discussions with Investment Accounting. Thank you,

Stella

AIG

Walkthrough Sample – EITF 99-20 - CA-1403572

Example of Investment Accounting Template Q1 2019 – EITF 99-20 GAAP - Extract

GAAP EITF 9920-Book Pxs for NonImpaired NonAgy RMBS bonds-Q1 2019 - For IA - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

A2 Portfolio

	A	B	C	D	E	F	G	H	I	J
1					Last Quarter Assumptions	Current Quarter Assumptions		Purchase Px - IDB		
2	Portfolio	Security ID	Security Name	Run Mo	Price-Q4 2018 Assumptions	Price-Q1 2019 Assumptions	1Q 2018 Ever O	Comment	IA Discount Ra	IsEITF 99-20
3	NON SOP_Domestic GAAP-Control 9	000780ND4	AMAC 2003-11 B1	MODEL	76.63	76.83	N		12.28	Yes
4	NON SOP_Domestic GAAP-Control 10	000780PA8	AMAC 2003-13 A4	MODEL	98.63	98.68	N		5.82	Yes
5	NON SOP_Domestic GAAP-Control 346	004375BZ3	ACCR 2004-3 1A5	MODEL	85.37	85.51	N		10.49	Yes
6	NON SOP_Domestic GAAP-Control 347	004375BZ3	ACCR 2004-3 1A5	MODEL	99.23	99.23	N		5.10	Yes
7	NON SOP_Domestic GAAP-Control 398	00441YAA0	ACE 2006-OP2 A1	MODEL	88.12	87.05	N		5.70	Yes
8	NON SOP_Domestic GAAP-Control 399	00441YAA0	ACE 2006-OP2 A1	MODEL	88.12	87.05	N		5.70	Yes
9	NON SOP_Domestic GAAP-Control 400	00441YAA0	ACE 2006-OP2 A1	MODEL	88.08	87.02	N		5.71	Yes
10	NON SOP_Domestic GAAP-Control 401	00441YAA0	ACE 2006-OP2 A1	MODEL	88.08	87.02	N		5.71	Yes
11	NON SOP_Domestic GAAP-Control 402	00441YAA0	ACE 2006-OP2 A1	MODEL	88.08	87.02	N		5.71	Yes
12	NON SOP_Domestic GAAP-Control 406	004421YR8	ACE 2006-HE2 A1	MODEL	88.18	87.14	N		5.82	Yes
13	NON SOP_Domestic GAAP-Control 407	004421YR8	ACE 2006-HE2 A1	MODEL	88.16	87.13	N		5.82	Yes
14	NON SOP_Domestic GAAP-Control 408	004421YR8	ACE 2006-HE2 A1	MODEL	88.16	87.13	N		5.82	Yes
15	NON SOP_Domestic GAAP-Control 409	004421YR8	ACE 2006-HE2 A1	MODEL	88.16	87.13	N		5.82	Yes
16	NON SOP_Domestic GAAP-Control 410	004421YR8	ACE 2006-HE2 A1	MODEL	88.15	87.11	N		5.83	Yes
17	NON SOP_Domestic GAAP-Control 411	004421YR8	ACE 2006-HE2 A1	MODEL	88.15	87.11	N		5.83	Yes
18	NON SOP_Domestic GAAP-Control 412	004421YR8	ACE 2006-HE2 A1	MODEL	88.15	87.11	N		5.83	Yes
19	NON SOP_Domestic GAAP-Control 413	004421YR8	ACE 2006-HE2 A1	MODEL	88.15	87.11	N		5.83	Yes
20	NON SOP_Domestic GAAP-Control 414	004421YR8	ACE 2006-HE2 A1	MODEL	88.15	87.11	N		5.83	Yes
21	NON SOP_Domestic GAAP-Control 481	007036FT8	ARMT 2005-1 4A1	MODEL	98.90	98.19	N		4.86	Yes
22	NON SOP_Domestic GAAP-Control 482	007036FT8	ARMT 2005-1 4A1	MODEL	98.90	98.20	N		4.86	Yes
23	NON SOP_Domestic GAAP-Control 483	007036HY5	ARMT 2005-3 5A1	MODEL	92.74	92.15	N		6.38	Yes
24	NON SOP_Domestic GAAP-Control 484	007036HY5	ARMT 2005-3 5A1	MODEL	92.74	92.15	N		6.38	Yes
25	NON SOP_Domestic GAAP-Control 485	007036HY5	ARMT 2005-3 5A1	MODEL	92.70	92.11	N		6.39	Yes
26	NON SOP_Domestic GAAP-Control 494	007036QV1	ARMT 2005-8 7A32	MODEL	77.51	78.25	N		15.16	Yes
27	NON SOP_Domestic GAAP-Control 495	007036QV1	ARMT 2005-8 7A32	MODEL	77.42	78.16	N		15.22	Yes
28	NON SOP_Domestic GAAP-Control 523	00764MHC4	AABST 2005-5 1A4	MODEL	93.01	92.84	N		5.95	Yes
29	NON SOP_Domestic GAAP-Control 524	00764MHC4	AABST 2005-5 1A4	MODEL	93.01	92.84	N		5.95	Yes
30	NON SOP_Domestic GAAP-Control 809	02151RAA1	CWALT 2007-OH2 A1A	MODEL	88.22	87.04	N		5.83	Yes
31	NON SOP_Domestic GAAP-Control 810	02151RAA1	CWALT 2007-OH2 A1A	MODEL	89.74	88.53	N		5.45	Yes

Bucket Table | Pivot | Results

AIG

Walkthrough Sample – EITF 99-20 - CA-1403572

Example of Investment Accounting Template Q1 2019 – EITF 99-20 STAT - Extract

STAT EITF 9920-Book Pxs for NonImpaired NonAgy RMBS bonds-Q1 2019 - For IA - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

A3 Non-SOP Domestic STAT-Control 347

	A	B	C	D	E	F	G	H	I	J
1					Last Quarter Assumptions	Current Quarter Assumptions		Purchase Px - IDB		
2	Portfolio	Security ID	Security Name	Run Mo	Price-Q4 2018 Assumptions	Price-Q1 2019 Assumptions	1Q 2019 Ever OTTI	Comment	IA Discount Ra	IsEITF 99-2
3	Non-SOP Domestic STAT-Control 347	004375BZ3	#N/A Invalid Security	MODEL	85.76	86.08	N		10.2	Yes
4	Non-SOP Domestic STAT-Control 402	00441YAA0	ACE 2006-OP2 A1	MODEL	89.32	88.37	N		5.4	Yes
5	Non-SOP Domestic STAT-Control 485	007036HY5	ARMT 2005-3 5A1	MODEL	91.85	91.08	N		6.7	Yes
6	Non-SOP Domestic STAT-Control 812	02151RAA1	CWALT 2007-OH2 A1A	MODEL	86.89	85.87	N		6.1	Yes
7	Non-SOP Domestic STAT-Control 1477	02660TDH3	AHM 2005-1 6A	MODEL	102.88	102.55	N		3.2	Yes
8	Non-SOP Domestic STAT-Control 1583	03072SKZ7	AMSI 2003-10I AF5	MODEL	103.50	103.96	N		4.8	Yes
9	Non-SOP Domestic STAT-Control 1976	040104QN4	ARSI 2005-W5 A2C	MODEL	93.24	92.07	N		4.3	Yes
10	Non-SOP Domestic STAT-Control 1980	040104QP9	ARSI 2005-W5 A2D	MODEL	91.76	91.02	N		4.6	Yes
11	Non-SOP Domestic STAT-Control 2626	05569QAC8	BNCMT 2007-2 A3	MODEL	94.43	93.48	N		4.3	Yes
12	Non-SOP Domestic STAT-Control 2821	05949ARU6	BOAMS 2004-I 2A2	MODEL	99.82	98.96	N		5.0	Yes
13	Non-SOP Domestic STAT-Control 2824	05949AUW8	BOAMS 2004-J 2A1	MODEL	99.16	98.46	N		5.1	Yes
14	Non-SOP Domestic STAT-Control 2910	05952DAB4	BAFC 2007-A 2A1	MODEL	97.01	95.66	N		3.9	Yes
15	Non-SOP Domestic STAT-Control 2912	05952DAB4	BAFC 2007-A 2A1	MODEL	97.09	95.74	N		3.9	Yes
16	Non-SOP Domestic STAT-Control 3929	12559QAF9	CITM 2007-1 1M1	MODEL	99.37	97.76	N		4.5	Yes
17	Non-SOP Domestic STAT-Control 3930	12559QAF9	CITM 2007-1 1M1	MODEL	89.09	87.86	N		6.0	Yes
18	Non-SOP Domestic STAT-Control 3931	12559QAF9	CITM 2007-1 1M1	MODEL	99.37	97.76	N		4.5	Yes
19	Non-SOP Domestic STAT-Control 3932	12559QAF9	CITM 2007-1 1M1	MODEL	98.84	97.25	N		4.6	Yes
20	Non-SOP Domestic STAT-Control 3933	12559QAF9	CITM 2007-1 1M1	MODEL	89.09	87.86	N		6.0	Yes
21	Non-SOP Domestic STAT-Control 3934	12559QAF9	CITM 2007-1 1M1	MODEL	97.15	95.63	N		4.8	Yes
22	Non-SOP Domestic STAT-Control 3935	12559QAF9	CITM 2007-1 1M1	MODEL	89.09	87.86	N		6.0	Yes
23	Non-SOP Domestic STAT-Control 3936	12559QAF9	CITM 2007-1 1M1	MODEL	89.09	87.86	N		6.0	Yes
24	Non-SOP Domestic STAT-Control 3937	12559QAF9	CITM 2007-1 1M1	MODEL	89.09	87.86	N		6.0	Yes
25	Non-SOP Domestic STAT-Control 3938	12559QAF9	CITM 2007-1 1M1	MODEL	89.09	87.86	N		6.0	Yes
26	Non-SOP Domestic STAT-Control 3939	12559QAF9	CITM 2007-1 1M1	MODEL	89.09	87.86	N		6.0	Yes
27	Non-SOP Domestic STAT-Control 3940	12559QAF9	CITM 2007-1 1M1	MODEL	89.09	87.86	N		6.0	Yes
28	Non-SOP Domestic STAT-Control 3941	12559QAF9	CITM 2007-1 1M1	MODEL	89.09	87.86	N		6.0	Yes
29	Non-SOP Domestic STAT-Control 3942	12559QAF9	CITM 2007-1 1M1	MODEL	89.09	87.86	N		6.0	Yes
30	Non-SOP Domestic STAT-Control 4039	12594XAX2	CSMC 2017-HL1 B2	MODEL	97.50	97.56	N		4.0	Yes
31	Non-SOP Domestic STAT-Control 4040	12594XAX2	CSMC 2017-HL1 B2	MODEL	97.50	97.56	N		4.0	Yes
32	Non-SOP Domestic STAT-Control 4041	12594XAY0	CSMC 2017-HL1 B3	MODEL	92.97	93.10	N		4.6	Yes
33	Non-SOP Domestic STAT-Control 4042	12594XAY0	CSMC 2017-HL1 B3	MODEL	92.97	93.10	N		4.6	Yes

Bucket Table / Pivot / Results

AIG

Walkthrough Sample – US CMBS - CA-1403572 and CA-3806719

Approval of CMBS OTTI Analysis and Cashflows for non-impaired securities and email to Investment Accounting communicating the deliverables of Q1 2019 GAAP

From: Samaan, Jayson
Sent: Tue 3/12/2019 10:20 AM
To: Yu, Connie; McIntyre, Steve@InvestACCT; Kang, Samuel
Cc: Mezrin, Vadim; Petitto, James M; Finch, Robert Lee; Kogan, David S; Romano, Joseph; Hall, Tricia; Horsford, Colin; Chung, Albert; Liu, Cynthia
Subject: FW: OTTI Structured 1Q19 (GAAP) - (CMBS)

We have reviewed the [GAAP] [CMBS] securities identified by Investment Accounting for possible impairment and highlighted the appropriate securities as being credit-impaired in accordance with asset class specific credit policies and procedures which are approved by AIG Credit Risk Management. Please find our 1Q 2019 credit impairment recommendations along with related recovery values and cash flows in the file(s) titled [1Q2019_OTTIEVal02062019_GAAP - FINAL] with a date/time stamp of

[3/12/2019 6:19 AM]

at the following link:

GAAP

From: Romano, Joseph
Sent: Monday, March 11, 2019 8:45 PM
To: Samaan, Jayson <Jayson.Samaan@aig.com>
Cc: Hall, Tricia <Tricia.Hall@aig.com>; Liu, Cynthia <Cynthia.Liu@aig.com>
Subject: Re: OTTI Structured 1Q19 (GAAP) - (CMBS)

Approved.

On Mar 11, 2019, at 6:54 PM, Samaan, Jayson <Jayson.Samaan@aig.com> wrote:

> Joe,
>
> We have reviewed the [GAAP] [CMBS] securities identified by Investment Accounting for possible impairment and highlighted the appropriate securities as being credit-impaired in accordance with asset class specific credit policies and procedures which are approved by AIG Credit Risk Management. Please find our 1Q 2019 credit impairment recommendations along with related recovery values and cash flows in the file(s) titled [1Q2019_OTTIEVal02062019_GAAP - FINAL] with a date/time stamp of
>
> [3/11/2019 6:52 PM]
>
> at the following link:
>
> GAAP

Walkthrough Sample – US CMBS - CA-1403572 and CA-3806719

Approval of CMBS OTTI Analysis and Cashflows for non-impaired securities and email to Investment Accounting communicating the deliverables of Q1 2019 STAT

From: Samaan, Jayson
Sent: Tue 3/12/2019 10:20 AM
To: Silva, Rosa@InvestAcct; Yu, Connie; McIntyre, Steve@InvestACCT; Kang, Samuel
Cc: Fan, Hui; Mezrin, Vadim; Petitto, James M; Finch, Robert Lee; Kogan, David S; Romano, Joseph; Hall, Tricia; Horsford, Colin; Chung, Albert; Liu, Cynthia
Subject: FW: OTTI Structured 1Q19 (STAT) - (CMBS)

We have reviewed the [STAT] [CMBS] securities identified by Investment Accounting for possible impairment and highlighted the appropriate securities as being credit-impaired in accordance with asset class specific credit policies and procedures which are approved by AIG Credit Risk Management. Please find our 1Q 2019 credit impairment recommendations along with related recovery values and cash flows in the file(s) titled [1Q2019_OTTIEVal02062019_STAT - FINAL] with a date/time stamp of

[3/11/2019 3:48 PM]

at the following link:

STAT

Next Last

From: Romano, Joseph
Sent: Monday, March 11, 2019 8:45 PM
To: Samaan, Jayson <Jayson.Samaan@aig.com>
Cc: Hall, Tricia <Tricia.Hall@aig.com>; Liu, Cynthia <Cynthia.Liu@aig.com>
Subject: Re: OTTI Structured 1Q19 (STAT) - (CMBS)

Approved.

On Mar 11, 2019, at 6:53 PM, Samaan, Jayson <Jayson.Samaan@aig.com> wrote:

> Joe,
>
> We have reviewed the [STAT] [CMBS] securities identified by Investment Accounting for possible impairment and highlighted the appropriate securities as being credit-impaired in accordance with asset class specific credit policies and procedures which are approved by AIG Credit Risk Management. Please find our 1Q 2019 credit impairment recommendations along with related recovery values and cash flows in the file(s) titled [1Q2019_OTTIEVal02062019_STAT - FINAL] with a date/time stamp of
>
> [3/11/2019 3:48 PM]
>
> at the following link:
>
> STAT

AIG

Walkthrough Sample – US CMBS OTTI - CA-1403572

Example of Investment Accounting Template Q1 2019 – CMBS US GAAP – Extract

1Q2019_OTTIEVal02062019_GAAP - FINAL 3.12 Update - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

A2 Credit Impaired Securities

	A	B	C	D	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO
1	Batch Seq #	Record Control #	Accting System Primary ID	Security Desc	Proposed Rank	Recovery Value	Estimated Reserve	RE Credit Analyst	Recvry Val % of Cur Par-Struct	Undisc Sum of Principal Recvd	Undisc Sum of Principal %CurPar	Undisc Sum of Interest Recvd	Undiscounted Sum of Cash Flow	Undisc Sum Cash Flow % CurPar	Discount Rate Override ,if used	Comment3	Collateral Major	Collateral Minor	AIG Collateral Type	AIG Asset Class Level 3	AIG Asset Class Level 1	% of Book Detail	Credit Family	RF Credit Analyst	Risk Entity	Portfolio Manager	AIG Consol FAS 115
2	Credit Impaired Securities																										
3	1799	13132989	036510AB1	ANSONIA CDO LTD SER 2006-1ACL AFX				Un-Assig	0.0419	2451827.52	0.858	359907	2811734.07	0.9839	1207.3		CDO	CDO CME	CDO CME	CDO	FIXED IN(	>100%		Un-Assig	ANSONIA	Joseph F	AFS
4	3310	13135519	07387BFZ	BEAR STEARNS COMMERCIAL MORTGA				Un-Assig	0.8131	2507000	1	205828	2712827.796	1.0821	22.862		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Bear Ste.	Joseph F	AFS
5	3311	13135520	07387BFZ	BEAR STEARNS COMMERCIAL MORTGA				Un-Assig	0.8131	493000	1	40476	533475.9089	1.0821	22.862		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Bear Ste.	Joseph F	AFS
6	3312	13135521	07387BFZ	BEAR STEARNS COMMERCIAL MORTGA				Un-Assig	0.8131	500000	1	41051	541050.6175	1.0821	22.862		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Bear Ste.	Joseph F	AFS
7	3313	13135522	07387BFZ	BEAR STEARNS COMMERCIAL MORTGA				Un-Assig	0.8131	2500000	1	205253	2705253.088	1.0821	22.862		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Bear Ste.	Joseph F	AFS
8	11440	13157317	361849R4E	GMAC COMMERCIAL MORTGAGE SECUF				Un-Assig	0.7469	4232701.901	0.9887	265869	4498571.148	1.0508	33.798		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	GMAC C	Joseph F	AFS
9	11441	13157318	361849R4E	GMAC COMMERCIAL MORTGAGE SECUF				Un-Assig	0.7469	11851565.32	0.9887	744434	12595999.21	1.0508	33.798		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	GMAC C	Joseph F	AFS
10	11605	13157618	3622MSAA	GS MORTGAGE SECURITIES TRUST SER				Un-Assig	0.8326	496667.748	1	19522	516189.744	1.0393	37.219		CMBS NC	CMBS O	CMBS O	CMBS NC	FIXED IN(	>100%		Un-Assig	GS Mortg	Joseph F	AFS
11	11606	13157619	3622MSAA	GS MORTGAGE SECURITIES TRUST SER				Un-Assig	0.8326	827779.58	1	32537	860316.24	1.0393	37.219		CMBS NC	CMBS O	CMBS O	CMBS NC	FIXED IN(	>100%		Un-Assig	GS Mortg	Joseph F	AFS
12	11607	13157620	3622MSAA	GS MORTGAGE SECURITIES TRUST SER				Un-Assig	0.8326	496667.748	1	19522	516189.744	1.0393	37.219		CMBS NC	CMBS O	CMBS O	CMBS NC	FIXED IN(	>100%		Un-Assig	GS Mortg	Joseph F	AFS
13	11608	13157621	3622MSAA	GS MORTGAGE SECURITIES TRUST SER				Un-Assig	0.8326	662223.664	1	26029	688252.992	1.0393	37.219		CMBS NC	CMBS O	CMBS O	CMBS NC	FIXED IN(	>100%		Un-Assig	GS Mortg	Joseph F	AFS
14	13843	13161806	46628FAN	JP MORGAN CHASE COMMERCIAL MOR				Un-Assig	0.5187	194080.19	0.692	17882	211961.91	0.7557	39.733		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Jp Morga	Joseph F	AFS
15	14634	13162954	50179MAH	LB-UBS COMMERCIAL MORTGAGE TRU				Un-Assig	1.0425	329130.02	0.9334	44097	373227.05	1.0585	0.729		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>60%, <=75%		Un-Assig	Lb-Ubs C	Joseph F	AFS
16	14723	13163117	52109PAJ4	LB-UBS COMMERCIAL MORTGAGE TRU				Un-Assig	1.0035	7000000	1	148248	7148247.96	1.0212	7.1017		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	LB-UBS	Joseph F	AFS
17	15879	13165405	59022HLP	MERRILL LYNCH MORTGAGE TRUST SEF				Un-Assig	0.9253	1354269.32	1	94507	1448776.735	1.0698	12.773		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Merrill Lyr	Joseph F	AFS
18	15880	13165406	59022HLP	MERRILL LYNCH MORTGAGE TRUST SEF				Un-Assig	0.9253	4965654.177	1	346527	5312181.365	1.0698	12.773		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Merrill Lyr	Joseph F	AFS
19	15881	13165407	59022HLP	MERRILL LYNCH MORTGAGE TRUST SEF				Un-Assig	0.9253	1354269.32	1	94507	1448776.735	1.0698	12.773		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Merrill Lyr	Joseph F	AFS
20	15882	13165408	59022HLP	MERRILL LYNCH MORTGAGE TRUST SEF				Un-Assig	0.9253	1354269.32	1	94507	1448776.735	1.0698	12.773		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Merrill Lyr	Joseph F	AFS
21	15883	13165409	59022HLP	MERRILL LYNCH MORTGAGE TRUST SEF				Un-Assig	0.9253	902846.2166	1	63005	965851.1599	1.0698	12.773		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Merrill Lyr	Joseph F	AFS
22	15884	13165410	59022HLP	MERRILL LYNCH MORTGAGE TRUST SEF				Un-Assig	0.9253	2020569.823	1	141005	2161574.886	1.0698	12.773		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Merrill Lyr	Joseph F	AFS
23	15885	13165411	59022HLP	MERRILL LYNCH MORTGAGE TRUST SEF				Un-Assig	0.9253	1805692.424	1	126010	1931702.31	1.0698	12.773		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Merrill Lyr	Joseph F	AFS
24	15886	13165412	59022HLP	MERRILL LYNCH MORTGAGE TRUST SEF				Un-Assig	0.9253	1805692.424	1	126010	1931702.31	1.0698	12.773		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Merrill Lyr	Joseph F	AFS
34	29158	13191595	47631WAB	JER CDO SER 2006-2ACL AFL Flt % Due (				Un-Assig	0	0	0	0	0	0	13.221		CDO	CDO CME	CDO CME	CDO	FIXED IN(	>100%		Un-Assig	JER CDO	Joseph F	AFS
35	29159	13191596	47631WAB	JER CDO SER 2006-2ACL AFL Flt % Due (				Un-Assig	0	0	0	0	0	0	13.221		CDO	CDO CME	CDO CME	CDO	FIXED IN(	>100%		Un-Assig	JER CDO	Joseph F	AFS
36	29196	13191662	50177AAV	LB COMMERCIAL CONDUIT MORTGAGE S				Un-Assig	0.9823	6746885.513	1	208652	6955537.835	1.0309	5.0401		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	LB Comm	Joseph F	AFS
37	29197	13191663	50177AAV	LB COMMERCIAL CONDUIT MORTGAGE S				Un-Assig	0.9823	3618663.552	1	111910	3730573.344	1.0309	5.0401		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	LB Comm	Joseph F	AFS
38	29198	13191664	50177AAV	LB COMMERCIAL CONDUIT MORTGAGE S				Un-Assig	0.9823	3313794.458	1	102481	3416275.952	1.0309	5.0401		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	LB Comm	Joseph F	AFS
39	29199	13191665	50177AAV	LB COMMERCIAL CONDUIT MORTGAGE S				Un-Assig	0.9823	2889628.767	1	89364	2978992.63	1.0309	5.0401		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	LB Comm	Joseph F	AFS
40	28202	13189263	059511AQ8	BANC OF AMERICA COMMERCIAL MOR S				Un-Assig	0	0	0	0	0	0	16.919		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>100%		Un-Assig	Banc of A	Joseph F	AFS
41	16307	13166246	617451CW	MORGAN STANLEY CAPITAL I TRUST SEI				Un-Assig	0.7151	8465029.432	1	2E+06	10232716.44	1.2088	16.503		CMBS NC	CMBS CC	CMBS CC	CMBS NC	FIXED IN(	>60%, <=75%		Un-Assig	Morgan S	Joseph F	AFS
42																											
43	Securities not identified as Credit Impaired																										
44	181	13130490	00183HAE1	AVENUE OF AMERICAS SER 2015-1177CL				Un-Assigned									CMBS NC	CMBS LA	CMBS SA	CMBS NC	FIXED IN(	>95%, <=100%		Un-Assig	AOA Mor	Joseph F	AFS
45	182	13130491	00183HAE1	AVENUE OF AMERICAS SER 2015-1177CL				Un-Assigned									CMBS NC	CMBS LA	CMBS SA	CMBS NC	FIXED IN(	>95%, <=100%		Un-Assig	AOA Mor	Joseph F	AFS
46	183	13130492	00183HAG	AVENUE OF AMERICAS SER 2015-1177CL				Un-Assigned									CMBS NC	CMBS LA	CMBS SA	CMBS NC	FIXED IN(	>95%, <=100%		Un-Assig	AOA Mor	Joseph F	AFS
47	184	13130493	00183HAG	AVENUE OF AMERICAS SER 2015-1177CL				Un-Assigned									CMBS NC	CMBS LA	CMBS SA	CMBS NC	FIXED IN(	>95%, <=100%		Un-Assig	AOA Mor	Joseph F	AFS

Sheet1

Walkthrough Sample – US CMBS OTTI - CA-1403572

Example of Investment Accounting Template Q1 2019 – CMBS US STAT – Extract

1Q2019_OTTIEVal02062019_STAT - FINAL 3.14 - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

A2 Credit Impaired Securities

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	Batch Seq #	Record Control #	Accting System Primary ID	Security Desc	GL Group	Accountingsysportfolio ID	Accountingsysportfolio name	Portfolio	Lot Number	Quantity	Orig Par Value USD	Book Value USD GAAP	Market Value USD GAAP	USD GAAP Unrealized Gain/Loss	MVvsBV pct.	RE Rtg Owner BL	Comment	Comment2	Proposed Rank	Recovery Value	Estimated Reserve	RE Credit Analyst	Recvry Val % of Cur Par-Struct	Undisc Sum of Principal Recvd	Undisc Sum of Principal%CurPar
2	Credit Impaired Securities																								
3	17796	13169260	682439AU8	1166 AVE	0	128871	AIG-AGL-	AIG-AGL-	191012975	5000000	5000000	1535882	5300234	3764352	345.094	Asset Management Group-Structured						Un-Assig	0.2993	4999338	0.99987
4	17797	13169261	682439AU8	1166 AVE	0	129556	AIG-USL-2	AIG-USL-2	191029681	5000000	5000000	4841127	5300234	459107	109.483	Asset Management Group-Structured						Un-Assig	0.2993	4999338	0.99987
5	29159	13191596	47631WAB3	JER CDO S	0	128871	AIG-AGL-	AIG-AGL-	218840866	1.9E+07	3.5E+07	122332	164252	41919.4	134.267	Asset Management Group-Structured						Un-Assig	0	0	0
6	29196	13191662	50177AAV1	LB COMM	0	128871	AIG-AGL-	AIG-AGL-	218840908	6752855	4.1E+07	6630046	6681771	51725.3	100.78	Asset Management Group-Structured						Un-Assig	0.7693	6746886	1
7	29197	13191663	50177AAV1	LB COMM	0	128871	AIG-AGL-	AIG-AGL-	218840931	3621865	2.2E+07	3554155	3583740	29584.9	100.832	Asset Management Group-Structured						Un-Assig	0.7693	3618664	1
8	29198	13191664	50177AAV1	LB COMM	0	128800	AIG-AGL-	AIG-AGL-	182794344	3316726	2E+07	3255788	3281813	26025.2	100.799	Asset Management Group-Structured						Un-Assig	0.7693	3313794	1
9	29199	13191665	50177AAV1	LB COMM	0	128800	AIG-AGL-	AIG-AGL-	182794345	2892185	1.7E+07	2836372	2861741	25369.3	100.894	Asset Management Group-Structured						Un-Assig	0.7693	2889629	1
10	28202	13189263	059511AQ8	BANC OF	0	128800	AIG-AGL-	AIG-AGL-	182794343	2.6E+07	6.5E+07	1.3E+07	1.5E+07	2077491	115.602	Asset Management Group-Structured						Un-Assig	0	0	0
11																									
12	Securities not identified as Credit Impaired																								
13	181	13130490	00183HAE1	AVENUE (	0	129196	AIG-LEX-1	AIG-LEX-1	182726180	5000000	5000000	5056764	4926429	-130335	97.4226	Asset Management Group-Structured						Un-Assigned			
14	183	13130492	00183HAG6	AVENUE (	0	129001	AIG-AH P	AIG-AH P	218556115	5175000	5175000	5144699	5067258	-77441.4	98.4947	Asset Management Group-Structured						Un-Assigned			
15	2378	13133998	05523GAC5	BANC OF	0	128871	AIG-AGL-	AIG-AGL-	218840984	5E+07	5E+07	2701870	2374485	-327385	87.883	Asset Management Group-Structured						Un-Assigned			
16	2379	13133999	05523GAC5	BANC OF	0	128871	AIG-AGL-	AIG-AGL-	218840996	5E+07	5E+07	2701870	2374485	-327385	87.883	Asset Management Group-Structured						Un-Assigned			
17	2380	13134000	05523GAC5	BANC OF	0	128682	AIG-AGL-	AIG-AGL-	218840859	1.7E+07	1.7E+07	901884	792603	-109281	87.883	Asset Management Group-Structured						Un-Assigned			
18	2381	13134001	05523GAC5	BANC OF	0	129196	AIG-LEX-1	AIG-LEX-1	217984342	2.5E+07	2.5E+07	1349726	1187243	-162483	87.9618	Asset Management Group-Structured						Un-Assigned			
19	2382	13134002	05523GAC5	BANC OF	0	129196	AIG-LEX-1	AIG-LEX-1	217984417	2.5E+07	2.5E+07	1350266	1187717	-162548	87.9618	Asset Management Group-Structured						Un-Assigned			
20	2383	13134003	05523GAE1	BANC OF	0	129196	AIG-LEX-1	AIG-LEX-1	217984425	2.5E+07	2.5E+07	505906	420917	-84989.4	83.2006	Asset Management Group-Structured						Un-Assigned			
21	2384	13134004	05523GAE1	BANC OF	0	129556	AIG-USL-2	AIG-USL-2	218555853	5.9E+07	5.9E+07	1180433	982139	-198294	83.2016	Asset Management Group-Structured						Un-Assigned			
22	2409	13134046	05524UAA7	BANC OF	0	129137	AIG-DSAF	AIG-FRCL	191378850	4425000	4425000	4550462	4452086	-98375.2	97.8381	Asset Management Group-Structured						Un-Assigned			
23	2410	13134047	05524UAA7	BANC OF	0	129196	AIG-LEX-1	AIG-LEX-1	217983969	1E+07	1E+07	1E+07	1E+07	-59898.7	99.4082	Asset Management Group-Structured						Un-Assigned			
24	2413	13134050	05524VAE7	BANC OF	0	129196	AIG-LEX-1	AIG-LEX-1	217984434	4225000	4225000	4434241	4321287	-112954	97.4527	Asset Management Group-Structured						Un-Assigned			
25	2415	13134052	05524VAG2	BANC OF	0	129196	AIG-LEX-1	AIG-LEX-1	217984443	1000000	1000000	1049298	1023614	-25684	97.5523	Asset Management Group-Structured						Un-Assigned			
26	2419	13134056	05525BAG5	BANC OF	0	128888	AIG-AGL-	AIG-AGL-	213218874	2500000	2500000	2501601	2475385	-26216.5	98.952	Asset Management Group-Structured						Un-Assigned			
27	2422	13134059	05525MAA4	BANC OF	0	128871	AIG-AGL-	AIG-AGL-	218840843	5250000	5250000	5540626	5276399	-264227	95.2311	Asset Management Group-Structured						Un-Assigned			
28	2424	13134061	05525MAA4	BANC OF	0	128682	AIG-AGL-	AIG-AGL-	215323116	2.2E+07	2.2E+07	2.3E+07	2.2E+07	-450053	98.034	Asset Management Group-Structured						Un-Assigned			
29	2427	13134064	05525MAA4	BANC OF	0	129669	AIG-VALI	AIG-VALI	215474989	2187500	2187500	2295420	2198500	-96920.6	95.7777	Asset Management Group-Structured						Un-Assigned			
30	2431	13134068	05525MAE6	BANC OF	0	128682	AIG-AGL-	AIG-AGL-	224517486	1.5E+07	1.5E+07	1.5E+07	1.5E+07	-656457	95.673	Asset Management Group-Structured						Un-Assigned			

Sheet1

Walkthrough Sample – US CMBS Non-impaired Cashflows review - CA-3806719

Example of Q1'2019 cashflow for non-impaired securities submitted to IA – Extract

ControlKey 11440 - 361849R46 - GMACC 2006-C1 AJ - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

H17 Cashflow

AIG Asset Management

Control Key:	11440
Cusip:	361849R46
Deal Name:	GMACC 2006-C1
Class:	AJ
Face:	4,281,220
Discount Rate:	33.80
NPV:	3,197,853

Deliverables

Recovery Value as % of Current Par (Structured)	Undiscounted Sum of Principal Received (A)	Undiscounted Sum of Principal as a % of Par (Current Par)	Undiscounted Sum of Interest Received (B)	Undiscounted Sum of Cash Flow (C=A+B)	Undiscounted Sum of Cash Flow as % of Par (Curr Par)
74.69%	4,232,702	98.87%	265,869	4,498,571	105.08%

Period#	Date	Enhancement	Coupon	Interest	Penalty	Principal	Cashflow	Balance	LossAmt	Accum Int	Shortfall	Int Not Paid Due to Cap
1	4/10/2019	0.00	5.35	19,105	0	1,832	20,937	4,279,539	-151	0		0
2	5/10/2019	0.00	5.35	19,076	0	1,924	21,000	4,277,765	-150	0		0
3	6/10/2019	0.00	5.35	19,068	0	1,874	20,942	4,276,047	-155	0		0
4	7/10/2019	0.00	5.35	19,060	0	1,944	21,004	4,274,253	-150	0		0
5	8/10/2019	0.00	5.35	19,052	0	1,894	20,946	4,272,515	-156	0		0
6	9/10/2019	0.00	5.35	19,045	0	1,904	20,949	4,270,767	-156	0		0
7	10/10/2019	0.00	5.35	19,037	0	1,974	21,010	4,268,944	-151	0		0
8	11/10/2019	0.00	5.35	19,029	0	1,925	20,953	4,267,176	-157	0		0
9	12/10/2019	0.00	5.35	19,021	0	2,036	21,057	4,265,291	-151	0		0
10	1/10/2020	0.00	5.35	19,013	0	1,988	21,001	4,263,459	-157	0		0
11	2/10/2020	0.00	5.35	19,004	0	2,001	21,005	4,261,618	-159	0		0
12	3/10/2020	0.00	5.35	18,996	0	2,125	21,121	4,259,637	-144	0		0
13	4/10/2020	0.00	5.35	18,987	0	3,737,106	3,756,093	472,320	50,212	0		0
14	5/10/2020	0.00	5.35	2,105	0	1,923	4,028	470,382	15	0		0
15	6/10/2020	0.00	5.35	2,097	0	1,870	3,967	468,497	15	0		0
16	7/10/2020	0.00	5.35	2,088	0	1,945	4,033	466,537	15	0		0
17	8/10/2020	0.00	5.35	2,080	0	1,892	3,972	464,617	28	0		0
18	9/10/2020	0.00	5.35	2,071	0	401,012	403,083	63,551	54	0		0
19	10/10/2020	0.00	5.35	283	0	963	1,246	62,587	1	0		0
20	11/10/2020	0.00	5.35	279	0	970	1,249	61,617	1	0		0
21	12/10/2020	0.00	5.35	275	0	976	1,251	60,640	1	0		0
22	1/10/2021	0.00	5.35	270	0	983	1,253	59,656	1	0		0

dcfTemplate (2)

AIG

Walkthrough Sample – US CMBS OTTI - CA-1403571

Appian Approval of CMBS OTTI Memo - Extract

General Document Approval

General Information

Request ID : 9987

Subject : Process Memo: US - Q1/2019 for CMBS

Submission Date : 3/20/2019 4:08 PM EDT

Final Approval Due Date : 4/30/2019 8:00 PM EDT

Initiator : Jayson Samaan

Second Initiator : Cynthia Liu

Documents Approved : Exhibit A - OTTI Q1 2019 Final_version2; US CMBS OTTI Process Memo Q1 2019 FINAL V2_version2

Initiator Comments

Comments	Comments made by	Comments made on
Process Memo: US - Q1/2019 for CMBS	Jayson Samaan	3/20/2019 4:23 PM EDT
Process Memo: US - Q1/2019 for CMBS (modified to reflect that the AGE Scenario has been used since 2017Q4 OTTI)	Jayson Samaan	3/26/2019 1:10 PM EDT

Reviewers Comments

Reviewer level	Reviewer Name	Reviewed Documents Name	Comments	Decision	Assigned On	Completed On
1	Joseph Romano	Exhibit A - OTTI Q1 2019 Final_version1, US CMBS OTTI Process Memo Q1 2019 FINAL_version1	approved	Completed Review	3/20/2019 4:23 PM EDT	3/20/2019 4:25 PM EDT
1	Joseph Romano	Exhibit A - OTTI Q1 2019 Final_version2, US CMBS OTTI Process Memo Q1 2019 FINAL V2_version2		Completed Review	3/26/2019 1:11 PM EDT	3/26/2019 1:20 PM EDT
2	David Naranjo Setien	Exhibit A - OTTI Q1 2019 Final_version2, US CMBS OTTI Process Memo Q1 2019 FINAL V2_version2	Reviewed.	Completed Review	3/26/2019 1:20 PM EDT	3/26/2019 3:41 PM EDT
2	Kenneth Mcgloin	Exhibit A - OTTI Q1 2019 Final_version2, US CMBS OTTI Process Memo Q1 2019 FINAL V2_version2	Review complete	Completed Review	3/26/2019 1:20 PM EDT	3/27/2019 2:24 PM EDT
3	Andrew Payne	Exhibit A - OTTI Q1 2019 Final_version2, US CMBS OTTI Process Memo Q1 2019 FINAL V2_version2	Review complete.	Completed Review	3/27/2019 2:24 PM EDT	3/27/2019 4:02 PM EDT
2	David Naranjo Setien	Exhibit A - OTTI Q1 2019 Final_version1, US CMBS OTTI Process Memo Q1 2019 FINAL_version1	Request Recalled	Skipped	3/20/2019 4:25 PM EDT	
2	Kenneth Mcgloin	Exhibit A - OTTI Q1 2019 Final_version1, US CMBS OTTI Process Memo Q1 2019 FINAL_version1	Request Recalled	Skipped	3/20/2019 4:25 PM EDT	

Approvers Comments

Approval level	Approver Name	Approved Documents Name	Comments	Decision	Assigned On	Completed On
1	Tom Fewings	Exhibit A - OTTI Q1 2019 Final_version2, US CMBS OTTI Process Memo Q1 2019 FINAL V2_version2	na	Approved	3/27/2019 4:02 PM EDT	3/27/2019 6:01 PM EDT
1	Geoffrey Cornell	Exhibit A - OTTI Q1 2019 Final_version2, US CMBS OTTI Process Memo Q1 2019 FINAL V2_version2	approved	Approved	3/27/2019 4:02 PM EDT	3/28/2019 6:20 AM EDT
2	Kenneth Mcgloin	Exhibit A - OTTI Q1 2019 Final_version2, US CMBS OTTI Process Memo Q1 2019 FINAL V2_version2	Approved	Approved	3/28/2019 6:20 AM EDT	3/28/2019 8:32 AM EDT
2	David Naranjo Setien	Exhibit A - OTTI Q1 2019 Final_version2, US CMBS OTTI Process Memo Q1 2019 FINAL V2_version2	Approved.	Approved	3/28/2019 6:20 AM EDT	4/1/2019 9:14 AM EDT
3	Andrew Payne	Exhibit A - OTTI Q1 2019 Final_version2, US CMBS OTTI Process Memo Q1 2019 FINAL V2_version2	Approved.	Approved	4/1/2019 9:14 AM EDT	4/11/2019 1:04 PM EDT

AIG

Walkthrough Sample – US CMBS OTTI - CA-1403571

Q1 2019 – Approved CMBS OTTI memo - Extract

AIG

AIG Investments
80 Pine Street, 8th Floor
New York, NY 10005
www.aig.com

To: Geoffrey Cornell, Tom Fewings, Joseph Romano, Ken McGloin, David Kogan, David Naranjo

From: Tricia Hall

Date: March 26, 2019

RE: Q1 2019 US/Canadian CMBS Impairment Process

Summary of Major Changes to First Quarter 2019 Impairment Process

- No change in methodology.
- No change in scenario selection.

Table 1: CMBS Portfolio Summary ($MM)

	12.31.18 BV (GAAP)	Buy	Sell	OTTI	BV Adj[1]	1.31.19 BV (GAAP)	1.31.19 BV (STAT)	1.31.19 MV
Senior/IG/AAA	$3,543	$40	($92)	$0	($203)	$3,286	$3,293	$3,306
AM	$1,647	$100	$0	($0)	$15	$1,861	$1,842	$1,840
AJ	$90	$0	$0	($6)	$0	$45	$39	$49
SUBORDINATE	$985	$8	$0	($0)	($88)	$806	$806	$815
SASB	$3,979	$1	($10)	$0	($179)	$3,791	$3,787	$3,789
Resecuritization	$1	$0	$0	$0	$0	$1	$1	$4
Selkirk						$0	$798	$821
Total US	$9,804	$230	($102)	($6)	($454)	$9,472	$10,266	$10,323
Canada	$154	$0	$0	$0	($4)	$150	$150	$149
Grand Total	$9,962	$230	($102)	($6)	($462)	$9,622	$10,415	$10,472

Note: Excludes Out of Scope positions: Agency CMBS, Interest only tranches which are MTM. Selkirk is out of scope for GAAP, but in scope for Stat.
1. Amortization and Paydowns.

Description of Process for US CMBS Holdings ($9,472 MM):

US CMBS holdings are analyzed using the Portfolio & Property Research, Inc.("PPR") Compass model. PPR is one of the leading independent providers of commercial real estate research and analysis. The Compass model provides loan level losses, which are utilized to generate loss adjusted bond level cash flows via Trepp, an internet-based third party analytical tool. AGE Baseline Scenario has been used starting from 2016Q4 OTTI. In addition, to gauge the reasonableness of Compass model losses, deal level loss estimates are benchmarked with at least three third-party loss providers where available. This benchmarking analysis is included in the Appendix: Benchmarking AIG Deal Level Loss Assessment to Dealer Estimates.

Selkirk Transaction ($798 MM STAT):

The AIG-sponsored Selkirk transaction is out of scope on a GAAP basis, but is in scope on a STAT basis. These bonds are subject to the general process described above; however, overrides (if any) are developed in conjunction with the CML team's specific and general allowance modeling process.

Description of Process for Canadian Holdings ($150 MM):

The AIG Canadian CMBS portfolio, transferred to the US CMBS team as of Q1 2014, is comprised of 12 transactions collateralized by approximately 425 loans and is predominantly rated AA and above. Average defeasance adjusted credit enhancement to the portfolio is 17.8%, compared with losses of 1.5% in the base case and 6.6% in the stress case; LCMs are 12.51x and 2.37x, respectively. Individual transaction-level LCMs are a minimum of 3.8x in the base case and range between 1.6x and 23.2x in the stress case. While the base case is used for OTTI, none of the Canadian holdings are expected to incur impairment in either scenario.

Given the relative size and senior positions of this portfolio (mainly AAA), these bonds pose minimal risk. In addition, the Canadian market has strict underwriting standards for commercial loans as well as a strong credit history. Since there are no external models available for commercial loans in Canada, we use a systematic approach to assess the portfolio for OTTI.

In our approach, the potential base loss of each loan is calculated as loan balance minus value; where loan balance is as of maturity (except for loans with DSCR<1.0x, the current loan balance is used) and value is from the most recent appraisal and adjusted downward by 100% of any DSCR decrease, when DSCR has declined since securitization. While there are no losses to date, an impairment would be taken where the sum of collateral loan values for a given deal are insufficient relative to credit enhancement of the bond we hold. Our conservative approach gives no credit to loan recourse structured in the majority of the Canadian loan collateral, where borrowers are more incentivized to resolve credit issues as reflected in the historical loss severity rate less than 1%.

Description of Scenario Assumption and Model Selection

Scenario Assumption:

AGE Baseline scenario has been used since 2017Q4 OTTI, which has been approved by Enterprise Risk Management ("ERM").

Model Selection:

A new version of the model was provided by the vendor in June 2016. The new version of the model has been tested by the structured products modeling group and validated on December 15th, 2016.

Because the vendor calibrated the new version of credit model to their revised historic CRE market data, the current validated version is no longer compatible with the new CRE market forecasts from either the vendor or the internal AIG Global Economics (AGE) team. As a result, the new version had to be used for the current OTTI and the same would apply for all future runs.

From a risk mitigation perspective, the Analytic team will continue to perform key controls currently in place when running production processes, such as reviewing inputs and verifying reasonableness of results. For OTTI purpose, the CMBS team will confirm with investment analytics that the model has been validated.

Maturity Gap:

In 2010, PPR developed a Maturity Gap feature in response to the upcoming maturity of five-year 2006-2007 vintage loans and the potential dearth of refinancing sources. While the concept of addressing maturity risk is valid, the original maturity gap feature overstated losses. Over the past two years, PPR has refined its model more in-line with AIG's view of maturity risk. As the Commercial Mortgage Loan (CML) group has been using the PPR Maturity Gap model for their Loan Loss Allowance process, and in order to be consistent within the firm, the CMBS Group implemented this feature as of September 30, 2015.

AIG

Walkthrough Sample – US Public ABS OTTI - CA-1403572

Approval for IA templates (GAAP) of Public ABS to submit OTTI Analysis to Investment Accounting - Extract

From: Korrell, Thomas
Sent: Mon 3/11/2019 2:37 PM
To: Sapia, Joseph; Yu, Connie; Silva, Rosa@InvestAcct; McIntyre, Steve@InvestACCT; Kang, Samuel
Cc: Destro, Anthony; Fan, Hui; Mezrin, Vadim; Finch, Robert Lee; Kogan, David S; Horsford, Colin; Chung, Albert; Petitto, James M; Knepple, Paul; Spilberg, Greg
Subject: OTTI Structured 1Q19 (GAAP) - (ABS)

We have reviewed the [GAAP] [ABS] securities identified by Investment Accounting for possible impairment and highlighted the appropriate securities as being credit-impaired in accordance with asset class specific credit policies and procedures which are approved by AIG Credit Risk Management. Please find our 1Q 2019 credit impairment recommendations along with related recovery values and cash flows in the file(s) titled [1Q2019_OTTIEVal02062019_GAAP_Final]

at the following link:

ABS

Intent

No intent to sell

From: Knepple, Paul
Sent: Monday, March 11, 2019 2:09 PM
To: Korrell, Thomas <Thomas.Korrell@aig.com>
Cc: Spilberg, Greg <Greg.Spilberg@aig.com>
Subject: RE: OTTI Structured 1Q19 (GAAP) - (ABS)

OK to submit.

PK

From: Korrell, Thomas
Sent: Monday, March 11, 2019 2:08 PM
To: Knepple, Paul <Paul.Knepple@aig.com>
Cc: Spilberg, Greg <Greg.Spilberg@aig.com>
Subject: OTTI Structured 1Q19 (GAAP) - (ABS)

Paul,

We have reviewed the [GAAP] [ABS] securities identified by Investment Accounting for possible impairment and highlighted the appropriate securities as being credit-impaired in accordance with asset class specific credit policies and procedures which are approved by AIG Credit Risk Management. Please find our 1Q 2019 credit impairment recommendations along with related recovery values and cash flows in the file(s) titled [1Q2019_OTTIEVal02062019_GAAP_Final]

at the following link:

ABS

Intent

And advise Intent to sale, if applicable.

Walkthrough Sample – US Public ABS OTTI - CA-1403572

Approval for IA templates (STAT) of Public ABS to submit OTTI Analysis to Investment Accounting - Extract

From: Korrell, Thomas
Sent: Mon 3/11/2019 2:37 PM
To: Sapia, Joseph; Yu, Connie; Silva, Rosa@InvestAcct; McIntyre, Steve@InvestACCT; Kang, Samuel
Cc: Destro, Anthony; Fan, Hui; Mezrin, Vadim; Finch, Robert Lee; Kogan, David S; Horsford, Colin; Chung, Albert; Petitto, James M; Knepple, Paul; Spilberg, Greg
Subject: OTTI Structured 1Q19 (STAT) - (ABS)

We have reviewed the [STAT] [ABS] securities identified by Investment Accounting for possible impairment and highlighted the appropriate securities as being credit-impaired in accordance with asset class specific credit policies and procedures which are approved by AIG Credit Risk Management. Please find our 1Q 2019 credit impairment recommendations along with related recovery values and cash flows in the file(s) titled [1Q2019_OTTIEVal02062019_STAT_Final]

at the following link:

ABS

Intent

No intent to sell

From: Knepple, Paul
Sent: Monday, March 11, 2019 2:10 PM
To: Korrell, Thomas <Thomas.Korrell@aig.com>
Cc: Spilberg, Greg <Greg.Spilberg@aig.com>
Subject: RE: OTTI Structured 1Q19 (STAT) - (ABS)

OK to submit.

PK

Next Last

From: Korrell, Thomas
Sent: Monday, March 11, 2019 2:08 PM
To: Knepple, Paul <Paul.Knepple@aig.com>
Cc: Spilberg, Greg <Greg.Spilberg@aig.com>
Subject: OTTI Structured 1Q19 (STAT) - (ABS)

Paul,

We have reviewed the [STAT] [ABS] securities identified by Investment Accounting for possible impairment and highlighted the appropriate securities as being credit-impaired in accordance with asset class specific credit policies and procedures which are approved by AIG Credit Risk Management. Please find our 1Q 2019 credit impairment recommendations along with related recovery values and cash flows in the file(s) titled [1Q2019_OTTIEVal02062019_STAT_Final]

at the following link:

ABS

Intent

And advise Intent to sale, if applicable.

Walkthrough Sample – US Public ABS OTTI - CA-1403572

Example of Investment Accounting Template Q1 2019 – Public ABS US GAAP – Extract

1Q2019_OTTIEVal02062019_GAAP_Final - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

A2 Securities Identified as Not Credit Impaired

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X
1	Batch Seq #	Record Contro		Accting System Primary ID	Security Desc	GL Group	Accountingsysportfolio	Accountingsysportfolioname	Portfolio	Lot Number	Quant	Orig Par Value USD	Book Value USD GAAP	Market Value USD GAAP	USD GAAP Unrealized Gain/Loss	MVvsBV pct.	RE Rtg Owner BL	Comment	Comment2	Proposed Ran	Recovery Valu	Estimated Reser	RE Credit Analy	Recvry Val % of Cur Par-Struct
2	Securities Identified as Not Credit Impaired																							
3	2629	13134403	13134403	05570XAT	BMW Car	0	128462	AIG-ICAN	AIG-ICAN	182754770	9000000	6847200	6838582.266	6819948.144	-18634.1	99.7275	Asset Management Group-Structured						Un-Assigned	
4	4734	13138074	13138074	14041NFF	Capital C	0	128416	AIG-AIG I	AIG-AIG I	229431365	5000000	5000000	5045367.49	5007994.5	-37373	99.2593	Asset Management Group-Structured						Un-Assigned	
5	4735	13138075	13138075	14041NFF	Capital C	0	128416	AIG-AIG I	AIG-AIG I	229431368	4500000	4500000	4500000	4507195.05	7195.05	100.16	Asset Management Group-Structured						Un-Assigned	
6	4736	13138076	13138076	14041NFF	Capital C	0	128416	AIG-AIG I	AIG-AIG I	229431362	8000000	8000000	8074931.16	8012791.2	-62140	99.2305	Asset Management Group-Structured						Un-Assigned	
7	4737	13138077	13138077	14041NFF	Capital C	0	128416	AIG-AIG I	AIG-AIG I	195025659	14977000	14977000	15064046.87	15000946.73	-63100.1	99.5811	Asset Management Group-Structured						Un-Assigned	
8	4738	13138078	13138078	14041NFF	Capital C	0	128416	AIG-AIG I	AIG-AIG I	195025658	22825000	22825000	22957659.72	22861494.89	-96164.8	99.5811	Asset Management Group-Structured						Un-Assigned	
9	4739	13138079	13138079	14041NFF	Capital C	0	128416	AIG-AIG I	AIG-AIG I	229431371	3429000	3429000	3449440.26	3434482.63	-14957.6	99.5664	Asset Management Group-Structured						Un-Assigned	
10	4740	13138080	13138080	14041NFF	Capital C	0	128416	AIG-AIG I	AIG-AIG I	229431377	12000000	12000000	12101259.33	12019186.8	-82072.5	99.3218	Asset Management Group-Structured						Un-Assigned	
11	4741	13138081	13138081	14041NFF	Capital C	0	128416	AIG-AIG I	AIG-AIG I	229431374	10000000	10000000	10059599.13	10015989	-43610.1	99.5665	Asset Management Group-Structured						Un-Assigned	
12	4742	13138082	13138082	14041NFF	Capital C	0	129165	AIG-GRAI	AIG-GRAI	181888026	943000	943000	948620.85	944507.76	-4113.09	99.5664	Asset Management Group-Structured						Un-Assigned	
13	4743	13138083	13138083	14041NFF	Capital C	0	129117	AIG-CI PC	AIG-CI PC	182915880	11429000	11429000	11497123.76	11447273.83	-49849.9	99.5664	Asset Management Group-Structured						Un-Assigned	
14	4744	13138084	13138084	14041NFF	Capital C	0	128415	AIG-AIG I	AIG-AIG I	229667231	20500000	20500000	20500000	20532777.45	32777.5	100.16	Asset Management Group-Structured						Un-Assigned	
15	4745	13138085	13138085	14041NFF	Capital C	0	128488	AIG-ASSL	AIG-ASSL	181888154	943000	943000	948620.85	944507.76	-4113.09	99.5664	Asset Management Group-Structured						Un-Assigned	
16	4746	13138086	13138086	14041NFF	Capital C	0	129438	AIG-SOP I	AIG-SOP I	181888227	6619000	6619000	6658453.25	6629583.12	-28870.1	99.5664	Asset Management Group-Structured						Un-Assigned	
17	4747	13138087	13138087	14041NFF	Capital C	0	128540	AIG-SPEC	AIG-SPEC	181887977	3208000	3208000	3227121.62	3213129.27	-13992.4	99.5664	Asset Management Group-Structured						Un-Assigned	
18	4777	13138142	13138142	14161ZCE	CARDS II	0	128462	AIG-ICAN	AIG-ICAN	182754790	10000000	7608000	7634532.444	7571329.44	-63203	99.1721	Asset Management Group-Structured						Un-Assigned	
19	4778	13138143	13138143	14161ZCE	CARDS II	0	128462	AIG-ICAN	AIG-ICAN	182754750	10000000	7608000	7632444.078	7571329.44	-61114.6	99.1993	Asset Management Group-Structured						Un-Assigned	
20	5334	13139296	13139296	17305EDT	Citibank	0	129654	AIG-VALI	AIG-VALI	182727713	4000000	4000000	3992132.59	5036586.8	1044454	126.163	Asset Management Group-Structured						Un-Assigned	
21	5335	13139297	13139297	17305EDT	Citibank	0	128763	AIG-AGL-	AIG-AGL-	182745998	16000000	16000000	15968530.34	20146347.2	4177817	126.163	Asset Management Group-Structured						Un-Assigned	
22	5336	13139298	13139298	17305EGD	Citibank	0	128416	AIG-AIG I	AIG-AIG I	229431380	42000000	42000000	42000000	42162514.8	162515	100.387	Asset Management Group-Structured						Un-Assigned	
23	5337	13139299	13139299	17305EGE	Citibank	0	129026	AIG-AH P	AIG-AH P	182766058	25000000	25000000	25000000	24999950	-50	99.9998	Asset Management Group-Structured						Un-Assigned	
24	5338	13139300	13139300	17305EGE	Citibank	0	128415	AIG-AIG I	AIG-AIG I	229667237	25000000	25000000	25209757.53	24999950	-209808	99.1678	Asset Management Group-Structured						Un-Assigned	
25	5339	13139301	13139301	17305EGE	Citibank	0	128415	AIG-AIG I	AIG-AIG I	229667240	25000000	25000000	25000000	24999950	-50	99.9998	Asset Management Group-Structured						Un-Assigned	
26	5340	13139302	13139302	17305EGE	Citibank	0	128415	AIG-AIG I	AIG-AIG I	229667234	25000000	25000000	25000000	24999950	-50	99.9998	Asset Management Group-Structured						Un-Assigned	
27	5341	13139303	13139303	17305EGE	Citibank	0	128415	AIG-AIG I	AIG-AIG I	229667246	5000000	5000000	5000000	4999990	-10	99.9998	Asset Management Group-Structured						Un-Assigned	
28	5342	13139304	13139304	17305EGE	Citibank	0	128415	AIG-AIG I	AIG-AIG I	229667243	20000000	20000000	20000000	19999960	-40	99.9998	Asset Management Group-Structured						Un-Assigned	
29	5343	13139305	13139305	17305EGF	Citibank	0	129185	AIG-LEX-1	AIG-LEX-1	224505966	16000000	16000000	16000000	16015980.8	15980.8	100.1	Asset Management Group-Structured						Un-Assigned	
30	5344	13139306	13139306	17305EGF	Citibank	0	128540	AIG-SPEC	AIG-SPEC	182750023	2000000	2000000	2005210.8	2001997.6	-3213.2	99.8398	Asset Management Group-Structured						Un-Assigned	
31	5345	13139307	13139307	17305EGF	Citibank	0	128540	AIG-SPEC	AIG-SPEC	182750014	1000000	1000000	1002605.4	1000998.8	-1606.6	99.8398	Asset Management Group-Structured						Un-Assigned	
32	5346	13139308	13139308	17305EGF	Citibank	0	129173	AIG-ILL P	AIG-ILL P	182718907	1500000	1500000	1500000	1501498.2	1498.2	100.1	Asset Management Group-Structured						Un-Assigned	

Sheet1

Walkthrough Sample – US Public ABS OTTI - CA-1403572

Example of Investment Accounting Template Q1 2019 – Public ABS US STAT – Extract

1Q2019_OTTIEVal02062019_STAT_Final - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

A2 Securities Identified as Not Credit Impaired

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
1	Batch Seq #	Record Contro	Accting System Primary ID	Security Desc	GL Group	Accounti ngsyspo rtfolio	Accounti ngsyspo rtfolion ame	Portfoli o	Lot Number	Quant	Orig Par Value USD	Book Value USD GAAP	Market Value USD GAAP	USD GAAP Unrealiz ed Gain/Lo ss	MVvsBV pct.	RE Rtg Owner BL	Comme nt	Comme nt2	Propose d Ran	Recover y Valu	Estimat ed Reser	RE Credit Analy	Recvry Val % of Cur Par-Struct	Undisc Sum of Principa l Recv	Undisc Sum of Principa l%CurPa r
2	Securities Identified as Not Credit Impaired																								
3	5334	13139296	17305EDT	Citibank	0	129654	AIG-VALI	AIG-VALI	182727713	4000000	4000000	3992133	5036587	1044454	126.163	Asset Management Group-Structured						Un-Assigned			
4	5340	13139302	17305EGE	Citibank	0	128415	AIG-AIG I	AIG-AIG I	229667234	25000000	25000000	25000000	24999950	-50	99.9998	Asset Management Group-Structured						Un-Assigned			
5	5343	13139305	17305EGF	Citibank	0	129185	AIG-LEX-1	AIG-LEX-1	224505966	16000000	16000000	16000000	16015981	15980.8	100.1	Asset Management Group-Structured						Un-Assigned			
6	12186	13158480	380881ED	Golden C	0	128416	AIG-AIG I	AIG-AIG I	192390199	5000000	5000000	5000000	4994053	-5947	99.8811	Asset Management Group-Structured						Un-Assigned			
7	12187	13158481	380881ED	Golden C	0	128416	AIG-AIG I	AIG-AIG I	192390242	5000000	5000000	5000000	4994053	-5947	99.8811	Asset Management Group-Structured						Un-Assigned			
8	16836	13167239	64031QBE	Nelnet St	0	129284	AIG-NUF-	AIG-NUF-	217983902	2852355	8100000	2467872	2687018	219146	108.88	Asset Management Group-Structured						Un-Assigned			
9	16837	13167240	64031QBL	Nelnet St	0	129284	AIG-NUF-	AIG-NUF-	217983932	1733017	5620000	1460546	1616504	155958	110.678	Asset Management Group-Structured						Un-Assigned			
10	17421	13168562	66704JBS	NORTHST	0	129185	AIG-LEX-1	AIG-LEX-1	217983905	5378860	20000000	5438317	5308150	-130167	97.6065	Asset Management Group-Structured						Un-Assigned			
11	18522	13170626	708788AC	Pennsylv	0	129394	AIG-NUF-	AIG-NUF-	191016947	5276030	12500000	4283608	4997526	713917	116.666	Asset Management Group-Structured						Un-Assigned			
12	20034	13173721	78442GLE	SLM Stud	0	129284	AIG-NUF-	AIG-NUF-	217983961	5474967	13623000	4532324	5188662	656338	114.481	Asset Management Group-Structured						Un-Assigned			
13	20035	13173722	78442GLE	SLM Stud	0	129026	AIG-AH P	AIG-AH P	218556142	2933807	7300000	2984148	2780388	-203759	93.1719	Asset Management Group-Structured						Un-Assigned			
14	20036	13173723	78442GLE	SLM Stud	0	129026	AIG-AH P	AIG-AH P	218556109	593593.6	1477000	603778.9	562552.6	-41226.4	93.1719	Asset Management Group-Structured						Un-Assigned			
15	20037	13173724	78442GLJ	SLM Stud	0	129284	AIG-NUF-	AIG-NUF-	217983993	9961226	24000000	8170458	9374777	1204319	114.74	Asset Management Group-Structured						Un-Assigned			
16	20038	13173725	78442GLV	SLM Stud	0	129284	AIG-NUF-	AIG-NUF-	217984029	1630578	3600000	1334553	1541912	207359	115.538	Asset Management Group-Structured						Un-Assigned			
17	20039	13173726	78442GLV	SLM Stud	0	129185	AIG-LEX-1	AIG-LEX-1	217983917	10870519	24000000	8897022	10279415	1382393	115.538	Asset Management Group-Structured						Un-Assigned			
18	20040	13173727	78442GLV	SLM Stud	0	129026	AIG-AH P	AIG-AH P	218556170	1087052	2400000	1060355	1027941	-32413.2	96.9432	Asset Management Group-Structured						Un-Assigned			
19	20042	13173729	78443CBH	SLM Stud	0	129284	AIG-NUF-	AIG-NUF-	182719363	13419242	23700000	13086079	13231708	145629	101.113	Asset Management Group-Structured						Un-Assigned			
20	20046	13173733	78443CBH	SLM Stud	0	129185	AIG-LEX-1	AIG-LEX-1	217983906	4246595	7500000	4123760	4187249	63488.9	101.54	Asset Management Group-Structured						Un-Assigned			
21	20047	13173734	78443CBH	SLM Stud	0	129185	AIG-LEX-1	AIG-LEX-1	182719399	12569923	22200000	12257846	12394258	136412	101.113	Asset Management Group-Structured						Un-Assigned			
22	20051	13173738	78443CBH	SLM Stud	0	129438	AIG-SOP I	AIG-SOP I	182723607	1302289	2300000	1271576	1284090	12514.3	100.984	Asset Management Group-Structured						Un-Assigned			
23	20053	13173740	78443CBH	SLM Stud	0	129117	AIG-CI PC	AIG-CI PC	182783481	3340655	5900000	3261868	3293969	32101.8	100.984	Asset Management Group-Structured						Un-Assigned			
24	20054	13173741	78443CBH	SLM Stud	0	129117	AIG-CI PC	AIG-CI PC	182783473	736076.6	1300000	717801.8	725789.9	7988.1	101.113	Asset Management Group-Structured						Un-Assigned			
25	20056	13173743	78443CBH	SLM Stud	0	129173	AIG-ILL P	AIG-ILL P	182719085	679455.3	1200000	662586.3	669959.9	7373.63	101.113	Asset Management Group-Structured						Un-Assigned			
26	20057	13173744	78443CBH	SLM Stud	0	128784	AIG-AGL-	AIG-AGL-	218840802	4246595	7500000	4123323	4187249	63926.5	101.55	Asset Management Group-Structured						Un-Assigned			
27	20058	13173745	78443CBN	SLM Stud	0	129026	AIG-AH P	AIG-AH P	218556206	5542088	9000000	5639522	5504035	-135487	97.5975	Asset Management Group-Structured						Un-Assigned			
28	20059	13173746	78443CBN	SLM Stud	0	129026	AIG-AH P	AIG-AH P	218555970	6157875	10000000	5899220	6115594	216375	103.668	Asset Management Group-Structured						Un-Assigned			
29	20061	13173748	78443CBN	SLM Stud	0	128678	AIG-AGL-	AIG-AGL-	218840807	6157875	10000000	5898163	6115594	217432	103.686	Asset Management Group-Structured						Un-Assigned			
30	20065	13173752	78443CBL	SLM Stud	0	129185	AIG-LEX-1	AIG-LEX-1	182719279	1319541	5000000	1298458	1316591	18133.5	101.397	Asset Management Group-Structured						Un-Assigned			
31	20066	13173753	78443CBV	SLM Stud	0	129397	AIG-NUF\	AIG-NUF\	182725706	450000	450000	424798.7	438829.1	14030.4	103.303	Asset Management Group-Structured						Un-Assigned			
32	20067	13173754	78443CBV	SLM Stud	0	129284	AIG-NUF-	AIG-NUF-	217984073	8000000	8000000	7581629	7801406	219778	102.899	Asset Management Group-Structured						Un-Assigned			

Sheet1

Walkthrough Sample – US Public ABS Cashflow review - CA-3806719

Submission of cashflows for non-impaired Public ABS securities to Investment Accounting - Extract

From: Korrell, Thomas
To: Kang, Samuel
Cc: Yu, Connie; Knepple, Paul Hidden on 01-04-2019, 10:02:13; Spilberg, Greg
Subject: 1Q19 Cash Flows - Non Credit Impaired Securities - Follow up
Sent: Tue 3/26/2019 11:30 AM

Message | 1Q19 Non Impaired.zip (934 KB)

I need to look into these further, I'm not sure they fall under US ABS (Paul Knepple)

Accting System Primary ID	check	Security Desc
166430AA6	ABS	Chesterfield Financial Holding SER 2014-1ACL A
40053RAA0	ABS	GRX 1504 A

From: Kang, Samuel
Sent: Monday, March 25, 2019 3:41 PM
To: Clemons, Stuart <Stuart.Clemons@aig.com>; Liu, Cynthia <Cynthia.Liu@aig.com>; Geng, Lining <Lining.Geng@aig.com>; Roberts, Sam <Sam.Roberts@aig.com>; Keothavong, Lena <Lena.Keothavong@aig.com>; Vance, Frederick@New York <Frederick.Vance2@aig.com>; Keothavong, Lena <Lena.Keothavong@aig.com>; Steele, Tim <Tim.Steele@aig.com>; Shikov, Milen <Milen.Shikov@aig.com>; DeTommaso, Stephen <Stephen.DeTommaso@AIG.com>; Orlando, Alexander J <Alexander.Orlando@aig.com>; Leventis, Christine <Christine.Leventis@aig.com>; Brogdon, Christopher <Christopher.Brogdon@aig.com>; Korrell, Thomas <Thomas.Korrell@aig.com>; Knepple, Paul <Paul.Knepple@aig.com>; Denkler, Tom <Tom.Denkler@AIG.com>; Malfant, Christopher <Christopher.Malfant@aig.com>; Romano, Joseph <Joseph.Romano@aig.com>
Cc: Yu, Connie <Connie.Yu@aig.com>
Subject: 1Q19 Cash Flows - Non Credit Impaired Securities - Follow up

All

Attached is a list of non-credit Impaired securities for which we were not able to find the Cash Flows for this period. If you have not posted the Cash Flows files to Sharepoint, please provide as soon as possible. If you have posted the file, please verify that you have posted the files in the location indicated below, please verify that your files were checked-in after uploaded and let us know. If you do not check-in the file it will not be visible to others.

AIG

Walkthrough Sample – US Public ABS Cashflow review - CA-3806719

Cashflows for non-impaired Public ABS securities submitted to Investment Accounting - Extract

Conusmer Loans [Read-Only] - Microsoft Excel

File Home Insert Page Layout Formulas Data Review View Acrobat

G1 Cashflow

	A	B	C	D	E	F	G	H	I	J	K	L
1	Bond	Period	Date	Principal	Interest	Interest Shortfall	Cashflow	Balance	Interest Accrual Balance	Days In Accrual Period	Coupon	Factor
2	78471WAB1	0	Jan 01, 2019	0.00	0.00	0.00	0.00	10,000,000.00				1.0000
3	78471WAB1	1	Jan 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
4	78471WAB1	2	Feb 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
5	78471WAB1	3	Mar 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
6	78471WAB1	4	Apr 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
7	78471WAB1	5	May 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
8	78471WAB1	6	Jun 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
9	78471WAB1	7	Jul 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
10	78471WAB1	8	Aug 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
11	78471WAB1	9	Sep 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
12	78471WAB1	10	Oct 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
13	78471WAB1	11	Nov 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
14	78471WAB1	12	Dec 25, 2019	0.00	27,916.67	0.00	27,916.67	10,000,000.00	10,000,000.00	30	3.3500	1.0000
15	78471WAB1	13	Jan 25, 2020	111,680.24	27,916.67	0.00	139,596.91	9,888,319.76	10,000,000.00	30	3.3500	0.9888
16	78471WAB1	14	Feb 25, 2020	823,622.20	27,604.89	0.00	851,227.09	9,064,697.56	9,888,319.76	30	3.3500	0.9065
17	78471WAB1	15	Mar 25, 2020	816,905.65	25,305.61	0.00	842,211.27	8,247,791.90	9,064,697.56	30	3.3500	0.8248
18	78471WAB1	16	Apr 25, 2020	789,191.37	23,025.09	0.00	812,216.45	7,458,600.54	8,247,791.90	30	3.3500	0.7459
19	78471WAB1	17	May 25, 2020	776,848.40	20,821.93	0.00	797,670.32	6,681,752.14	7,458,600.54	30	3.3500	0.6682
20	78471WAB1	18	Jun 25, 2020	755,171.10	18,653.22	0.00	773,824.33	5,926,581.04	6,681,752.14	30	3.3500	0.5927
21	78471WAB1	19	Jul 25, 2020	742,402.98	16,545.04	0.00	758,948.01	5,184,178.06	5,926,581.04	30	3.3500	0.5184
22	78471WAB1	20	Aug 25, 2020	719,882.65	14,472.50	0.00	734,355.14	4,464,295.42	5,184,178.06	30	3.3500	0.4464
23	78471WAB1	21	Sep 25, 2020	700,350.71	12,462.82	0.00	712,813.53	3,763,944.71	4,464,295.42	30	3.3500	0.3764
24	78471WAB1	22	Oct 25, 2020	685,053.59	10,507.68	0.00	695,561.27	3,078,891.12	3,763,944.71	30	3.3500	0.3079
25	78471WAB1	23	Nov 25, 2020	659,301.03	8,595.24	0.00	667,896.27	2,419,590.08	3,078,891.12	30	3.3500	0.2420
26	78471WAB1	24	Dec 25, 2020	642,210.25	6,754.69	0.00	648,964.94	1,777,379.83	2,419,590.08	30	3.3500	0.1777
27	78471WAB1	25	Jan 25, 2021	614,980.06	4,961.85	0.00	619,941.91	1,162,399.77	1,777,379.83	30	3.3500	0.1162
28	78471WAB1	26	Feb 25, 2021	574,872.53	3,245.03	0.00	578,117.56	587,527.24	1,162,399.77	30	3.3500	0.0588
29	78471WAB1	27	Mar 25, 2021	523,010.77	1,640.18	0.00	524,650.95	64,516.48	587,527.24	30	3.3500	0.0065
30	78471WAB1	28	Apr 25, 2021	64,516.48	180.11	0.00	64,696.58	0.00	64,516.48	30	3.3500	0.0000

CF-Scen 1

AIG

Walkthrough Sample – US Public ABS OTTI - CA-1403571

Appian Approval of Public ABS OTTI Memo - Extract

General Document Approval

General Information

Request ID : 9929

Subject : Process Memo: US - Q1/2019 for ABS

Submission Date : 3/11/2019 2:46 PM EDT

Final Approval Due Date : 5/31/2019 5:00 PM EDT

Initiator : Thomas Korrell

Second Initiator :

Document Approved : 2019Q1 OTTI - ABS Process Memo_version1; Auto Watchlist - 1Q19_version1; Consumer Loan Watchlist - 1Q19_version1; Credit Card Watchlist - 1Q19_version1; SL Watchlist_1Q19_version1

Initiator Comments

Comments	Comments made by	Comments made on
Process Memo: US - 1Q/2019 for ABS	Thomas Korrell	3/11/2019 3:01 PM EDT

Reviewers Comments

Reviewer level	Reviewer Name	Reviewed Documents Name	Comments	Decision	Assigned On	Completed On
1	Paul Knepple	2019Q1 OTTI - ABS Process Memo_version1, Auto Watchlist - 1Q19_version1, Consumer Loan Watchlist - 1Q19_version1, Credit Card Watchlist - 1Q19_version1, SL Watchlist_1Q19_version1	Approved.	Completed Review	3/11/2019 3:02 PM EDT	3/12/2019 8:52 AM EDT
2	Andrey Jiansky	2019Q1 OTTI - ABS Process Memo_version1, Auto Watchlist - 1Q19_version1, Consumer Loan Watchlist - 1Q19_version1, Credit Card Watchlist - 1Q19_version1, SL Watchlist_1Q19_version1	Reviewed	Completed Review	3/12/2019 8:52 AM EDT	3/12/2019 2:34 PM EDT
3	Andrew Payne	2019Q1 OTTI - ABS Process Memo_version1, Auto Watchlist - 1Q19_version1, Consumer Loan Watchlist - 1Q19_version1, Credit Card Watchlist - 1Q19_version1, SL Watchlist_1Q19_version1	Review complete.	Completed Review	3/12/2019 2:34 PM EDT	3/12/2019 3:58 PM EDT
3	Kenneth Mcglcin	2019Q1 OTTI - ABS Process Memo_version1, Auto Watchlist - 1Q19_version1, Consumer Loan Watchlist - 1Q19_version1, Credit Card Watchlist - 1Q19_version1, SL Watchlist_1Q19_version1		Completed Review	3/12/2019 2:34 PM EDT	3/12/2019 6:52 PM EDT

Approvers Comments

Approval level	Approver Name	Approved Documents Name	Comments	Decision	Assigned On	Completed On
1	Ryan Fulmer	2019Q1 OTTI - ABS Process Memo_version1, Auto Watchlist - 1Q19_version1, Consumer Loan Watchlist - 1Q19_version1, Credit Card Watchlist - 1Q19_version1, SL Watchlist_1Q19_version1	approved	Approved	3/12/2019 6:52 PM EDT	3/13/2019 9:38 AM EDT
1	Geoffrey Cornell	2019Q1 OTTI - ABS Process Memo_version1, Auto Watchlist - 1Q19_version1, Consumer Loan Watchlist - 1Q19_version1, Credit Card Watchlist - 1Q19_version1, SL Watchlist_1Q19_version1	Approved	Approved	3/12/2019 6:52 PM EDT	3/13/2019 10:47 AM EDT
2	Andrey Jiansky	2019Q1 OTTI - ABS Process Memo_version1, Auto Watchlist - 1Q19_version1, Consumer Loan Watchlist - 1Q19_version1, Credit Card Watchlist - 1Q19_version1, SL Watchlist_1Q19_version1	Approved	Approved	3/13/2019 10:47 AM EDT	3/13/2019 11:07 AM EDT
3	Kenneth Mcglcin	2019Q1 OTTI - ABS Process Memo_version1, Auto Watchlist - 1Q19_version1, Consumer Loan Watchlist - 1Q19_version1, Credit Card Watchlist - 1Q19_version1, SL Watchlist_1Q19_version1	Approved	Approved	3/13/2019 11:07 AM EDT	3/13/2019 12:15 PM EDT
3	Andrew Payne	2019Q1 OTTI - ABS Process Memo_version1, Auto Watchlist - 1Q19_version1, Consumer Loan Watchlist - 1Q19_version1, Credit Card Watchlist - 1Q19_version1, SL Watchlist_1Q19_version1	Approved.	Approved	3/13/2019 11:07 AM EDT	3/13/2019 12:16 PM EDT

Walkthrough Sample – US Public ABS OTTI - CA-1403571

Approved Public ABS OTTI memo of Q1'2019 - Extract

AIG

AIG Investments
80 Pine Street, 8th Floor
New York, NY 10005
www.aig.com

TO: Paul Knepple, Andrew Forster, Geoff Cornell, Kenneth McGloin, Andy Payne, Andrey Jiansky

FROM: Public ABS Team

DATE: March 8, 2019

RE: AIG Investments Public ABS Quarterly Surveillance and OTTI Process

Summary of Major Changes and First Quarter 2019 Impairment Recommendations

- No changes in methodology.
- No impairments recommended for 1Q 2019.
- Purchases of $119mm and Sales of $211mm.

Portfolio Summary (In Scope)

	Book Value USD GAAP 1/31	Market Value USD GAAP 1/31	Book Value USD GAAP 10/31	Market Value USD GAAP 10/31	BV QoQ Change	MV QoQ Change
Student Loans	$ 1,072,476,557	$ 1,089,425,666	$ 1,054,082,748	$ 1,071,601,129	$ 18,445769	$ 17,822,557
FFELP	$ 57,225,451	$ 61,074,612	$ 51,790,945	$ 56,508,029	$ 5,423,486	$ 4,566,583
Private	$ 1,015,251,107	$ 1,028,349,055	$ 1,002,240,803	$ 1,015,093,101	$ 13,030,304	$ 13,255,954
Credit Cards	$ 792,409,962	$ 799,256,202	$ 945,607,640	$ 951,538,052	$ (153,197,678)	$ (152,291,850)
Auto – Loan	$ 198,056,624	$ 197,777,966	$ 256,545,999	$ 252,626,752	$ (9,524,963)	$ (5,794,465)
Auto – Lease	$ 62,288,127	$ 62,366,145	$ 46,441,545	$ 46,164,103	$ 9,193,898	$ 9,532,567
Auto – Floorplan	$ 201,647,467	$ 202,163,401	$ 217,074,400	$ 216,702,605	$ (57,762,945)	$ (56,924,067)
Consumer Loans	$ 195,222,865	$ 195,970,835	$ 180,559,507	$ 179,698,191	$ 14,863,558	$ 16,272,642
Grand Total	$ 2,522,079,582	$ 2,546,998,218	$ 2,680,264,641	$ 2,696,320,833	$ (158,185,059)	$ (151,322,615)

****$119mm in purchases: $57mm Student Loan, $23mm Auto Lease, $20mm Auto Loan and $18mm Consumer**
****$211mm in sales: $146mm Cards, $49mm Auto Loan and $15mm Auto Floorplan**

Security Screening Process
Given the diverse nature of AIG's ABS portfolio and sector-specific risks, the SPG (Structured Products Group) divides the portfolio by collateral type to complete its quarterly credit review process. The Public ABS portfolio is generally divided into the following four categories: Credit Cards, Autos (Loans, Leases and Floor Plan) Student Loans and Consumer Loans.

I. Credit Cards

Systems and Data Sources
Monthly feeds of ABS-specific risk metrics are downloaded from Intex (the primary source of data). Securities that fail primary surveillance screens are then run through Intex's cash flow engine. In addition, other data sources such as Bloomberg, trustee reports, prospectuses may be utilized as a secondary source in order to assemble the necessary risk metrics to make a fair credit assessment.

Credit Card transactions incorporate a revolving Master Trust structure for which monthly performance data is reported. Deterioration in monthly performance data (principally, a decline in three-month average Excess Spread below 0%) can automatically trigger an Early Amortization Event. At that time, the revolving period ends and all cash flows are used to amortize the notes. A principal write down can occur if the deterioration in performance depletes a bond's credit enhancement before principal is fully repaid. SPG's surveillance efforts are focused around predicting the likelihood of such an event.
Monthly performance data is downloaded from Bloomberg, Intex, and rating agency websites and compiled into a single spreadsheet for analysis. Downloaded data points include:

- Monthly Payment Rate
- Gross Portfolio Yield
- Charge offs
- Delinquencies
- Excess Spread
- Credit Enhancement

Additional descriptive information (e.g. Credit Rating, WAL, Original/Current Face, Book/Market Prices) is updated from the IDR.

All securities with three-month average Excess Spread levels below 4.5% are flagged for further manual review by the Portfolio Management Team. **(All of AIG's positions have three-month average Excess Spread greater than 10%.)** 4.5% is the level below which most transactions begin retaining Excess Spread to fund subordinate reserve accounts. A reduction in Excess Spread below 4.5% is a realistic indicator of increased risk of Early Amortization. During an early amortization event (i.e, excess spread < 0%), all principal collections become allocable to investors immediately (no new receivables are added). An OTTI credit impairment would be recommended if the cash flows generated under this revised scenario do not forecast full return of principal and interest. Screened securities which return full principal and interest are added to the watch list.

Sector Overview
Aggregate household debt balances ticked up in the fourth quarter of 2018 for the 18th consecutive quarter, and are now $869billion (6.9%) higher than the previous (2008Q3) peak of $12.68 trillion. As of December 31, 2018, total household indebtedness was $13.54 trillion, a $32 billion (0.2%) increase from the third quarter of 2018. Overall household debt is now 21.4% above the 2013Q2 trough.

The number of credit inquiries within the past six months – an indicator of consumer credit demand – declined to the lowest level seen in the history of the data.

Credit card balances rose by $26 billion to $870 billion. The increase in credit card balances is consistent with seasonal patterns but marks the first time credit card balances re-touched the 2008 nominal peak. The US economy continued to expand and unemployment stayed low, supporting obligors' ability to make payments on their credit card debt. Although a modest net share of banks reported tighter limits for credit cards in the most Senior Loan Officer Survey, a moderate net share of banks expect tighter standards for credit card loans and weaker performance in 2019.

As of February 2019, the JPM index of bank sponsored cards reported excess spread of 13.94% and chargeoffs of 2.26%. The charge-off rate for credit card ABS is 33bps above the recession low. While the charge-off and delinquency rates of credit card ABS continued to increase marginally year over year as of December 2018, the payment rate, yield and excess spread performance continued to improve from 2017 levels.

Portfolio activity during the period included $146mm in sales, primarily related to a cash raise for AIG Parent. The credit card portfolio totaled $792mm as of 1/31/19. Credit card ABS offers an attractive alternative to similar duration agencies and unsecured corporate bonds.

AIG

Key Inventories

Inventory Type	Details
Systems	• Bloomberg AIM • Clearwater Analytics • Appian Workflow • Intex Cashflow Tool
Models	• US Non-Agency RMBS(LPRM) • US Single Family Rental RMBS Model • US CMBS - Compass PPR/TREPP
EUCs (End User Computation)	• US Single Family Rental RMBS Model
Key Reports	• Trade Blotter Report
System Interfaces	• Trades are entered into Bloomberg and flow to Clearwater
Automated Calculation/System Functionality	• Trade Blotter in Appian cannot be modified
Automated Reconciliations	• None

AIG