



Due Date	R - 2012A 1-Dec		R - 2012B 1-Dec		R - 2012C 1-Dec		2012D 1-Dec		2012E (Taxable) 1-Dec		2012M1 1-Jan		2012M2 1-Jan		2013M1 1-Jan		2013A 1-Dec		R - 2013B 1-Dec		2013C (Taxable) 1-Dec		2013E 1-Dec		2014M1 1-Jan		2014A 1-Dec		R - 2014B 1-Dec		R - 2014C 1-Dec							
	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate						
2018	4,375,000	5.000	5,000,000	5.000	15,345,000	5.000	425,000	3.000							2,401,000	1.300																						
2019	2,000,000	3.000	7,200,000	5.000	20,990,000	5.000	2,095,000	4.000																														
2020	3,300,000	5.000	6,015,000	4.000	6,000,000	5.000	13,565,000	5.000	2,660,000	4.000																							7,920,000	4.000				
2021	6,495,000	5.000					1,110,000	4.000			1,082,400	2.250	1,389,800	2.250																			18,345,000	5.000				
2022	2,655,000	4.000					1,655,000	5.000	28,936,000	3.572	1,642,500	2.550	1,505,500	2.250	1,707,400	2.400																		19,400,000	5.000			
2023	2,755,000	4.500					775,000	4.000	28,936,000	3.722					1,690,000	2.400								2,225,200	3.000									24,915,000	5.000			
2024	830,000	3.000					6,350,000	5.000	28,936,000	3.922														3,964,500	3.000									23,720,000	5.000			
2025	2,250,000	5.000					7,275,000	5.000	28,936,000	4.122																								2,500,000	3.000			
2026	10,335,000	5.000					7,440,000	5.000	28,936,000	4.322																								37,940,000	5.000			
2026	9,365,000	5.000					7,595,000	5.000	28,936,000	4.522	778,400	3.500	752,400	3.200																					28,940,000	5.000		
2027	7,910,000	5.000					7,835,000	5.000	28,933,000	4.322	1,770,500	3.500	1,763,500	3.200	927,200	3.450																			16,545,000	5.000		
2028	1,105,000	4.500					7,305,000	5.000							2,269,500	3.450																		30,880,000	5.000			
2029	7,215,000	5.000					7,420,000	5.000																											10,000,000	5.000		
2029	2,675,000	3.000					8,005,000	5.000	89,218,000	4.551																									10,000,000	3.000		
2030	6,060,000	5.000					8,005,000	5.000																											3,795,000	5.000		
2031							3,675,000	3.500			1,592,600	4.000	1,180,800	3.700	2,019,800	3.900																			4,385,000	5.000		
2032							4,205,000	5.000			10,554,500	4.000	8,481,500	3.700																					4,610,000	5.000		
2033																																				18,035,000	5.000	
2034																																				4,835,000	5.000	
2035																																				5,080,000	5.000	
2036																																				10,000,000	5.000	
2036							545,000	4.000																												13,415,000	4.000	
2037																																					10,000,000	5.000
2038																																					58,160,000	5.000
2039																																						
2040																																						
2041																																						
2042																																						
2043							215,400,000	5.000																														
2044																																						
2045																																						
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Original Issue Amount	99,405,000		32,325,000		119,145,000		312,160,000		262,830,000		21,137,800		18,187,000		23,254,800		252,655,000		388,730,000		250,000,000		506,765,000		39,594,800		600,000,000		42,275,000						704,525,000			
Outstanding as of Dec 2017	74,520,000		12,200,000		34,555,000		298,785,000		262,830,000		17,420,900		15,073,500		21,446,400		252,655,000		388,730,000		250,000,000		506,765,000		33,067,500		525,000,000		42,275,000						704,525,000			
Dated	2/9/2012		4/5/2012		10/9/2012		4/26/2012		4/26/2012		5/1/2012		5/1/2012		5/1/2013		8/21/2013		8/21/2013		8/21/2013		19/4/2013		5/1/2014		7/9/2014		7/8/2014						10/28/2014			
Current Call Provisions	12/1/2021 @ 100%	No optional redemption	No optional redemption	6/1/22 @ 100%	Anytime "Make-Whole" T+25 bp	1/1/13 @ 100%**	1/1/13 @ 100%**	1/1/14 @ 100%**	12/1/23 @ 100%	12/1/23 @ 100%	Anytime "Make-Whole" T+35 bp	12/1/23 @ 100%	12/1/23 @ 100%	12/1/23 @ 100%	1/1/15 @ 100%**	6/1/24 @ 100% (5% 2049, 2054)	6/1/19 @ 100% (Step Coupon 2049)	6/1/24 @ 100%																	12/1/19 @ 100% (Step Coupon 2046)			
Purpose/ Bonds Refunded	R2003A (2015-2022 2026-2030) 2004A (2023-2031)	R2002A (2014-2021)	R2002D (2014-2021)																																			

Due Date	R - 2014D (Taxable)		2015A		R - 2015B		R - 2015C		2015D (Taxable)		2015M1		2015E		R - 2016A		R - 2016B		R - 2016C		2016D (Taxable)		2016M1		Retired Bonds	Refunded in Part By Series			
	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate	Amount	Rate					
2018																													
2019			16,080,000	5.000			38,705,000	5.000																			1967 N/A		
2020			5,485,000	4.000			43,690,000	5.000																			1950 N/A		
2021			11,335,000	5.000			60,545,000	5.000			5,960,500	1.750															1971 R-1977		
2022	4,825,000	2.906	4,480,000	5.000	20,640,000	5.000	74,595,000	5.000																				1973 Commercial Paper	
2023	4,965,000	3.056	17,720,000	5.000	20,505,000	5.000	19,940,000	5.000																				1976 R-1977	
2024	5,115,000	3.256	5,000,000	3.000	23,725,000	5.000					2,337,400	2.500																1977 Commercial Paper, R-1997A	
2025	5,290,000	3.408	19,650,000	5.000							2,909,000	2.500																1977 R-1977	
2026	6,415,000	3.506	23,305,000	5.000																								1978 Commercial Paper	
2027																												1979A R-1993ABC	
2028			23,390,000	5.000																								1980A R-1986AB, R-1988A, R-1991C	
2029			5,370,000	5.000																								1981A R-1986AB, R-1988A, R-1991C	
2030																												1981B R-1985A, R-1986AB	
2031			11,550,000	5.000																								1981C R-1982, R-1985A, R-1986AB	
2032			1,775,000	3.500																								1982 R-1982, R-1986AB	
2033			1,925,000	3.500																								1982A R-1982, R-1986AB	
2034			1,990,000	3.500																								1982B R-1985, R-1986AB	
2035			1,215,000	3.500																								1985 Commercial Paper, R-1991B	
2036			2,145,000	3.625																								1985A R-1985A, R-1986AB	
2037																													1985B R-1985A, R-1986AB
2038			2,225,000	3.625																									1985C R-1985A, R-1986AB
2039																													1985D R-1985A, R-1986AB
2040			5,130,000	3.750																									1985E R-1985A, R-1986AB
2041			2,050,000	4.000																									1985F R-1985A, R-1986AB
2042																													1985G R-1985A, R-1986AB
2043																													1985H R-1985A, R-1986AB
2044			11,420,000	4.000																									1985I R-1985A, R-1986AB
2045			2,860,000	5.000					169,657,000	4.770																			1985J R-1985A, R-1986AB
2046																													1985K R-1985A, R-1986AB
2047																													1985L R-1985A, R-1986AB
2048																													1985M R-1985A, R-1986AB
2049																													1985N R-1985A, R-1986AB
2050			311,315,000	5.000																									1985O R-1985A, R-1986AB
2051																													1985P R-1985A, R-1986AB
2052																													1985Q R-1985A, R-1986AB
2053																													1985R R-1985A, R-1986AB
2054																													1985S R-1985A, R-1986AB
2055			89,995,000	5.000																									1985T R-1985A, R-1986AB
2056																													1985U R-1985A, R-1986AB
Original Issue Amount	31,795,000		598,960,000		64,870,000		270,170,000		169,657,000		36,136,600		300,000,000		543,745,000		598,705,000		52,400,000		322,650,000				42,142,700			1985V R-1985A, R-1986AB	
Outstanding as of Dec-2017	31,795,000		591,825,000		64,870,000		198,770,000		169,657,000		34,802,400		300,000,000		543,745,000		598,705,000		52,400,000		322,650,000				40,823,300			1985W R-1985A, R-1986AB	
Dated	10/28/2014		2/29/2015		4/7/2015		10/8/2015		2/28/2015		5/1/2015		12/22/2015		2/19/2016		7/20/2016		10/13/2016		7/20/2016				5/1/2016			1985X R-1985A, R-1986AB	
Current Call Provisions	Anytime "Make-Whole" T+25 bp		6/1/25 @ 100%		No optional redemption		No optional redemption		Anytime "Make-Whole" T+35 bp		1/1/2016 @ 100%**		12/1/25 @ 100%		12/1/2020 @ 100% (2048, 2049)		12/1/2026 @ 100%		12/1/2026 @ 100%		Anytime "Make-Whole" T+20 bp				1/1/2017 @ 100%**			1985Y R-1985A, R-1986AB	
Purpose/ Bonds Refunded	Retirement of CP Notes 2003A (2032) 2005A (2015) 2006C (2016) 2007B (2016, 2019) 2010B (2016, 2019) 2011B (2014) 2012A (2014) 2012B (2014) 2012C (2014) 2013D (2015)		New Money / Retirement of CP Notes 2006A (2017, 2018, 2030) 2007A (2020, 2027, 2032) 2008A (2022-2027, 2029) 2009B (2020, 2021, 2024, 2026)		2005C (2023-2025)		2005A (2017-2022) 2005B (2017-2023)		New Money / Retirement of CP Notes		New Money * Capital Appreciation Bonds ** CABs Callable at accreted value		New Money		2007A (2037, 2042) 2008A (2028, 2038) 2009A (2024-2032) 2009B (2022, 2023, 2027, 2028, 2029, 2034, 2039) 2014A (2049)		New Money		2006C (2016-2022, 2036)		New Money				New Money * Capital Appreciation Bonds ** CABs Callable at accreted value			1985Z R-1985A, R-1986AB	
Arbitrage Yield					3.22666						2.502394		4.070692		3.016406		2.629652		2.537185										1985AA R-1985A, R-1986AB
Escrow Depleted	1/1/2018		1/1/2019		7/1/2015		1/1/2016								6/1/2019		1/1/2020		1/1/2017										1985AB R-1985A, R-1986AB
Note																													1985AC R-1985A, R-1986AB

Updated: 3/20/2018