

SUBMISSION
REQUIRED/OPTIONAL DATA ELEMENTS

Set forth below is a table showing the relationship between the various submission types and required and optional data tags. As submission messages are processed by EMMA, the message data content will be verified with exception response messages returned to the submitter system. Response messages will be classified as error, warning or informational.

Submission Data Tags						
Form G-32 Submissions						
EMMA Primary Market Disclosure Service						
XML Container	Data Tag	Primary Market Disclosures				Advance Refunding Disclosures [Refunded Issue]
		[New Issue] CUSIP based (CUSIP-9)	[New Issue] Ineligible for CUSIP Number Assignment (non-CUSIP)	[Remarketed]	[New Issue] Commercial Paper (CUSIP-6)	
Submission	Submission Type	R	R	R	R	R
	Submission Status	R	R	R	R	R
	Submission Identifier	O (for subsequent submissions)	R (for subsequent submissions)	O (for subsequent submissions)	R (for subsequent submissions)	R (for subsequent submissions)
	Submission Underwritten CUSIP9 Identifier	O (for subsequent submissions)	N/A	O (for subsequent submissions)	N/A	N/A
Offering	Offering Type	R	R	R	R	R
	OS Availability Status	AA	AA	AA	AA	AA
	POS Availability Status	AA	AA	AA	AA	AA
	Underwriting Spread Disclosure Indicator	R	R	R	R	N/A

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Offering	Underwriting Spread	R (not required if disclosed in official statement or for competitive sale)	R (not required if disclosed in official statement or for competitive sale)	R (not required if disclosed in official statement or for competitive sale)	R (not required if disclosed in official statement or for competitive sale)	N/A
	Underwriter Assessment Exemption Indicator	AA	AA	AA	AA	AA
	Underwriter Assessment Discount Indicator	AA	AA	AA	AA	AA
Issue	Issue Type	R	R	R	R	R
	Security Type	R	R	R	R	R
	Issuer Name	R	R	R	R	R (if Security Type = non-CUSIP)
	Issue Description	R	R	R	R	R (if Security Type = non-CUSIP)
	Issuer State	O	R	O	O	R (if Security Type = non-CUSIP)
	Issue Closing Date	R	R	R	R	N/A
	Issue Dated Date	O	R	O	O	O
Original Dated Date	N/A	N/A	R (only if same CUSIP and dated date has changed)	N/A	N/A	

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Issue	CUSIP6	N/A	N/A	N/A	R	N/A
	Original CUSIP9 Of Remarketed Security	N/A	N/A	R (only if new CUSIP assigned)	N/A	N/A
	CUSIP9 Of Latest Maturity On Issue Not Underwritten	R (only if Non-Underwritten Issue in Offering)	N/A	R (only if Non-Underwritten Issue in Offering)	N/A	N/A
Securities	CUSIP9	R	N/A	R	N/A	AA
	Maturity Date	O	R	O	O	AA
	Security Dated Date	N/A	R	N/A	N/A	N/A
	Maturity Principal Amount	R	R	R	N/A	N/A
	Initial Offering Price or Yield	R	R	R	N/A	N/A
	Interest Rate (1)	O	R	O	O	O
	Underwritten Indicator	R (only if underwrite less than whole Issue)	R (only if underwrite less than whole Issue)	R (only if underwrite less than whole Issue)	N/A	N/A
	Par Value Underwritten	R (only if Underwritten Indicator = PartiallyUnderwritten)	R (only if Underwritten Indicator = PartiallyUnderwritten)	R (only if Underwritten Indicator = PartiallyUnderwritten)	N/A	N/A

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Securities	Original CUSIP9 of Refunded Security	N/A	N/A	N/A	N/A	R
	New CUSIP9 of Refunded Security	N/A	N/A	N/A	N/A	AA
	New CUSIP9 of Unrefunded Balance	N/A	N/A	N/A	N/A	AA
Document	Document Type	R	R	R	R	R
	Document Description	O	O	O	O	O
	Document Posting Operation Indicator	O	O	O	O	O
	Document Disclosure Completion Indicator	R	R	R	R	R
	Original CUSIP9 of Refunded Security	N/A	N/A	N/A	N/A	R
	CUSIP9 Identifier Of Refunding Issue	N/A	N/A	N/A	N/A	R

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File	File Order	O	O	O	O	O
	Date Received from Issuer	R	R	R	R	R
Underwriter	Managing Underwriter MSRB ID	R	R	R	R	R
Limited Offering Contact	OS Contact Organization Name	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering
	OS Contact First Name	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering
	OS Contact Last Name	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering

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Limited Offering Contact	OS Contact Title	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering
	OS Contact Phone Number	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering
	OS Contact Phone Number Extension	AA	AA	AA	AA	AA
	OS Contact Address	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering

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Limited Offering Contact	OS Contact City	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering
	OS Contact State	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering
	OS Contact Zip Code	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering
	OS Contact Email Address	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering	R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering

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Footnotes:						
R	Required for a complete data submission					
O	Optional					
AA	As Applicable					
N/A	Not Applicable – signifies that no data is to be provided for a particular data element either because such data is not needed for such submission or such data will be derived from other sources available to the MSRB – any data supplied for a data element marked as N/A will not be used for purposes of EMMA portal or subscription dissemination					
(1)	Interest Rate should be - Blank for Variable Rate, 0 (zero) for Zero Coupon					