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**					
		Primary Market Disclosures				**Advance Refunding Disclosures [Refunded Issue]**
XML Container	**Data Tag**	**[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
	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
	OS Availability Status	AA	AA	AA	AA	N/A
	POS Availability Status	AA	AA	AA	AA	N/A

		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)**	
Offering	Underwriting Spread Disclosure Indicator	R	R	R	R	N/A
	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	N/A
	Underwriter Assessment Discount Indicator	AA	AA	AA	AA	N/A
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

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)**	
Issue	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
	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
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
	Security Status	R (only if underwrite less than whole Issue)	N/A	R (only if underwrite less than whole Issue)	N/A	N/A

		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)**	
Securities	Par Value Underwritten	R (only if Security Status = PartiallyUnderwritten)	N/A	R (only if Security Status = PartiallyUnderwritten)	N/A	N/A
	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
	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

		Submission Data Tags Form G-32 Submissions EMMA Primary Market Disclosure Service				
		Primary Market Disclosures				**Advance Refunding Disclosures [Refunded Issue]**
XML Container	**Data Tag**	**[New Issue] CUSIP based (CUSIP-9)**	**[New Issue] Ineligible for CUSIP Number Assignment (non-CUSIP)**	**[Remarketed]**	**[New Issue] Commercial Paper (CUSIP-6)**	
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	N/A
	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	N/A
	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	N/A

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)**	
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	N/A
	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	N/A
	OS Contact Phone Number Extension	AA	AA	AA	AA	N/A
	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	N/A

		Submission Data Tags Form G-32 Submissions EMMA Primary Market Disclosure Service				
		Primary Market Disclosures				Advance Refunding Disclosures [Refunded Issue]
XML Container	Data Tag	[New Issue] CUSIP based (CUSIP-9)	[New Issue] Ineligible for CUSIP Number Assignment (non-CUSIP)	[Remarketed]	[New Issue] Commercial Paper (CUSIP-6)	
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	N/A
	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	N/A
	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	N/A
	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	N/A

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)**	
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					

SUMMARY OF CHANGES FROM PRELIMINARY SPECIFICATIONS

(underlining indicates additions; strikethrough indicates deletions)

Offering Container:

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**
OS Availability Status	AA	AA	AA	AA	**N/A** ~~AA~~
POS Availability Status	AA	AA	AA	AA	**N/A** ~~AA~~
Underwriter Assessment Exemption Indicator	AA	AA	AA	AA	**N/A** ~~AA~~
Underwriter Assessment Discount Indicator	AA	AA	AA	AA	**N/A** ~~AA~~

Issue Container:

Issuer State	**O** ~~N/A~~	R	**O** ~~N/A~~	**O** ~~N/A~~	R (if Security Type = non-CUSIP)
~~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 Container:

CUSIP9	R	N/A	R	N/A	~~AA~~ **N/A**
Maturity Date	**O** ~~N/A~~	R	**O** ~~N/A~~	**O** ~~N/A~~	~~AA~~ **N/A**
Interest Rate	**O** ~~N/A~~	R	**O** ~~N/A~~	**O** ~~N/A~~	**O** ~~N/A~~
Security Status ~~Underwritten Indicator~~	R (only if underwrite less than whole Issue)	~~N/A~~ **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 **Security Status** ~~Underwritten Indicator~~ = PartiallyUnderwritten)	**N/A** ~~R (only if Underwritten Indicator = PartiallyUnderwritten)~~	R (only if **Security Status** ~~Underwritten Indicator~~ = PartiallyUnderwritten)	N/A	N/A

Document Container:

~~Document Disclosure Completion Indicator~~	~~R~~	~~R~~	~~R~~	~~R~~	~~R~~

Limited Offering Contact Container:

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	**N/A** ~~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	**N/A** ~~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	**N/A** ~~R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering~~

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	**N/A** ~~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	**N/A** ~~R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering~~
OS Contact Phone Number Extension	AA	AA	AA	AA	**N/A** ~~R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering~~
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	**N/A** ~~R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering~~
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	**N/A** ~~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	**N/A** ~~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	**<u>N/A</u>** ~~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	**<u>N/A</u>** ~~R (only if OS Availability Status = OS Available Only From Underwriter_15c212 Exempt LimitedOffering~~