The tables below describe changes that will be in effect when the FINRA ORF technical migration commences on June 2, 2014. Summary of TDDS Changes:

Function		TDDS Messages and Process (Through May 30, 2014)				Messages a Beginning Ju		
Bandwidth	• 500	Kbps			• 800	Kbps		
Ports/IP Addresses (Production)	Multicast	Class D		Source IP	Multicast	Class D		Source IP
	Group	Multicast Address	Port	Address	Group	Multicast Address	Port	Address
	Primary Group	224.3.0.6	55360	206.200.5.6	Primary Group	224.3.0.10	55378	206.200.5.10
	Secondary Group	224.3.0.16	55361	206.200.6.16	Secondary Group	224.3.0.20	55379	206.200.6.20
Ports/IP Addresses								
(Test Environment)		N/A	A		Multicast Group	Class D Multicast Address	Por	Source IP Address
					Primary Group	TBD	TBD	TBD
					Secondary Group	TBD	TBD	TBD
Message Header		ssage Header e/Time field 1			• Me	•	Length i	ncreased to 32

	 conversion Market Center Originator is one byte 	 Date/Time field is numeric Time includes milliseconds Market Center Originator increased to two bytes
Trade Report (Short Form)	Category T, Type 1	 Category T, Type 5; No format changes employed for this message Format will be used if specific trade conditions are met and if trade was executed and reported on current trading day

Function	TDDS Messages and Process (Through May 30, 2014)	TDDS Messages and Process (Beginning June 2, 2014)
Trade Report (Long Form)	 Category T, Type 2 Current day transactions only Security Symbol 11 bytes One sale condition field is employed Trade volume field is 9 bytes Trade price field is 10 bytes 	 Category T, Type 6 Current day and T-3 as-of trades will be disseminated via the Long Form message Format includes 17-byte Execution Date/Time in the message format Security Symbol increased to 14 bytes Four sale condition fields are employed to denote the possibility of multiple trade conditions for the transaction Trade volume field decreased to 8 bytes Trade price field increased to 12 bytes
Trade Cancel	 Category T, Type 3 Current day transaction cancels only Security Symbol 11 bytes One sale condition field is employed Trade volume field is 9 bytes Trade price field is 10 bytes 	 Category T, Type 7 Current day and T-3 as-of cancel transactions will be disseminated via the Trade Cancel message Format includes Original Dissemination Date and Original Message Sequence Number to distinguish trades being canceled from a previous day Format includes 17-byte Execution Date/Time in the message format Security Symbol increased to 14 bytes Four sale condition fields are employed to denote the possibility of multiple trade conditions for the transaction Trade volume field decreased to 8 bytes Trade price field increased to 12 bytes

	•	Currency field eliminated from
		Summary portion of message

Function	TDDS Messages and Process (Through May 30, 2014)	TDDS Messages and Process v2.0 (Beginning June 2, 2014)
Trade Correction	 Category T, Type 4 Current day transaction corrections only Security Symbol 11 bytes One sale condition field is employed Trade volume field is 9 bytes Trade price field is 10 bytes 	 Category T, Type 8 Current day and T-3 as-of trade correction transactions will be disseminated via the Trade Correction message Format includes Original Dissemination Date and Original Message Sequence Number to distinguish trades being corrected from a previous day Format includes 17-byte Execution Date/Time in the message format Security Symbol increased to 14 bytes Four sale condition fields are employed in original and corrected trade message portion to denote the possibility of multiple trade conditions for the transaction Trade volume field decreased to 8 bytes Trade price field increased to 12 bytes Currency field eliminated from Summary portion of message
Trade Summary	Category A, Type 1Security Symbol 11 bytes	 Category A, Type 2 Security Symbol increased to 14 bytes
General Administrative	 Category A, Type A Fixed format text message of 300 byte character maximum 	Category A, Type A; No format changes required for this message
Security Trade Halt	N/A	 Category A, Type H Halt and Resume trading action for individual securities

		 Message formats includes Action; Security Symbol; Date/Time; Reason Code
Security Trade Halts (Pre - Open Spin)	N/A	 Category A, Type H Trading Halt pre-open spin for individual securities which remain in a halted state from a previous day Message format includes Action; Security Symbol; Date/Time; Reason Code Trading Halt Spin takes place at 7:30 a.m. ET

Function	TDDS Messages and Process (Through May 30, 2014)	TDDS Messages and Process v2.0 (Beginning June 2, 2014)
Trade Halt (Extraordinary Market Event)	N/A	 Category A, Type M Extraordinary Market Event halt and resume trading action (for all securities) Message format includes Action; Date/Time; Reason Code
Trade Halt (Market Wide Circuit Breaker)	N/A	 Category A, Type M Market Wide Circuit Breaker halt and resume trading action (for all securities) Message format includes Action; Date/Time; Reason Code
Test Cycle Control Messages	Category C, Type M; Category C, Type N	Discontinued these messages
Control Messages	These control messages disseminate "Q" as the Market Center Originator Category C, Type O - Market Open Category C, Type C - Market Closed Category C, Type X - End of Trade Reporting	The following control messages will disseminate both U and u as the Market Center Originator Category C, Type O - Market Open Category C, Type C - Market Closed Category C, Type X - End of Trade Reporting

Summary of BBDS Changes:

Function	BBDS (Through May 30, 2014)	BBDS (Beginning June 2, 2014)
EMC Halt/Resume	 Category C, Type A (Halt) Category C, Type B (Resume) Used for emergency market events affecting all securities 	 Process eliminated on this feed Firms must process TDDS to receive the EMC data
Use of Other OTC Equity Identifier (u)	Market Center Originator Code - Used in Trading Action Messages	 Will no longer be supported Firms must process TDDS to receive the Other OTC Equity halt data