Opal Securities, Inc.

	Equities ECN Schedule								
Route	ADD LIQUIDITY (\$/share)	REMOVE LIQUIDITY (\$/Share)	Description	Time of Operation					
SMART	(0.0035)	(0.0035)	Smart Router	4:00am - 8:00pm					
ARCA	0.0020	(0.0035)	Smart Router. Posts on exchange	4:00am - 8:00pm					
NSDQ	0.0020	(0.0035)	Smart Router. Posts on exchange	4:00am - 8:00pm					
PDQMID	(0.0020)	(0.0020)	Smart Route. Includes midpoint route	9:30am - 4:00pm					
HAWK	(0.0035)	(0.0035)	Aggressive dark aggregator route. Sweeps dark pool and midpoints	9:30am - 4:00pm					
AGGR	(0.0035)	(0.0035)	Dark aggregator route. Sweeps major dark pool destinations	9:30am - 4:00pm					
TSEC15	(0.0035)	(0.0035)	TWAP route. Will work the order from time of entry for 15 seconds	9:30am - 4:00pm					
TWAP2	(0.0025)	(0.0025)	TWAP route. Will work the order from time of entry for 2 minutes	9:30am - 4:00pm					
TWAP5	(0.0025)	(0.0025)	TWAP route. Will work the order from time of entry for 5 minutes	9:30am - 4:00pm					
TWAP15	(0.0025)	(0.0025)	TWAP route. Will work the order from time of entry for 15 minutes	9:30am - 4:00pm					
TWAP30	(0.0025)	(0.0025)	TWAP route. Will work the order from time of entry for 30 minutes	9:30am - 4:00pm					
TWAP60	(0.0025)	(0.0025)	TWAP route. Will work the order from time of entry for 60 minutes	9:30am - 4:00pm					
TWAP	(0.0025)	(0.0025)	TWAP route. Will work the order from time of entry to 4:00 PM	9:30am - 4:00pm					
EXTT5	(0.0035)	(0.0035)	TWAP route. Will work the order from time of entry for 5 minutes	4:00am - 8:00pm					
EXTT15	(0.0035)	(0.0035)	TWAP route. Will work the order from time of entry for 15 minutes	4:00am - 8:00pm					
VWAP5	(0.0025)	(0.0025)	VWAP route. Will work the order from time of entry for 5 minutes	9:30am - 4:00pm					
VWAP60	(0.0025)	(0.0025)	VWAP route. Will work the order from time of entry for 60 minutes	9:30am - 4:00pm					
VWAP	(0.0025)	(0.0025)	VWAP route. Will work the order from time of entry to 4:00 PM	9:30am - 4:00pm					

 $^{{\}rm *Under}\,{\rm \$1}\,{\rm stocks}$ will be charged at the remove liquidity price

Options ECN Schedule								
	ADD LIQUIDITY	REMOVE LIQUIDITY						
Route	(\$/contract)	(\$/contract)	Description	Time of Operation				
SMARTO	(0.5000)	(0.5000)	Instinet Smart Router	9:30am - 4:00pm				
SMARTOO	(0.5000)	(0.5000)	Instinet Smart Router Complex Order	9:30am - 4:00pm				