



## State of New Jersey

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January 17, 2023

Mr. Andrew Schwartz  
Director, Radio Communications  
One Penn Plaza East  
Newark, NJ 07105-2246

Dear Mr. Schwartz,

The State of NJ (NJSP) is in the process of finalizing construction of a new Statewide channel plan for its Public Safety Operations. As part of that buildout, NJSP is moving the Neptune site in its Telegraph Hill Simulcast Cell. The existing site and simulcast cell were successfully coordinated in August of 2021 on channel pair 858.7125/813.7125 MHz with the Neptune site licensed at location 1 on Call Sign WROH886. New Jersey Transit (NJT) is co-channel with this channel pair on license WQUR570 and NJT previously signed off on an LOC for the existing Neptune site as well as other sites in the Simulcast Cell. NJSP is again requesting an LOC with NJT for use of channel pair 858.7125/813.7125 MHz.

The change precipitating this request relocates the Neptune site approx. 0.69 km to North-East from the existing location and raises the antenna height approximately 60 feet. Table 1 below provides the relevant site information of this Simulcast cell site. This channel pair is currently licensed and operational on NJSP's existing Neptune site, approx. 58 km away from NJT's operations licensed on Call Sign WQUR570. We anticipate that no interference will arise between the two systems given the lack of existing interference, NJT's indoor use of the channel, and lack of existing issues between the systems. Further, the attached 800 MHz co-channel interference contour plot demonstrates that the relocation of Neptune site is within the existing RF footprint and will not interfere with New Jersey Transit's underground DAS operation.

Site Name	Latitude	Longitude	Antenna Height (m)	Antenna Name	Azimuth	ERP (W)	Frequency (MHz)
Telegraph Hill	40° 23' 40.9" N	74° 10' 43.4" W	54.8	Sinclair SC479-HF1LDF	360	100	858.4625, 858.7125
Wall	40° 07' 48.0" N	74° 07' 29.0" W	45.7	Sinclair SC479-HF1LDF	360	100	858.4625, 858.7125



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Long Branch	40° 18' 11.0" N	73° 59' 35.7" W	40.5	Sinclair SC479-HF1LDF	360	100	858.4625, 858.7125
<b>Neptune Reloc</b>	<b>40° 13' 30.65" N</b>	<b>74° 03' 20.30" W</b>	<b>65</b>	<b>dbSpectra DS7C06P36D</b>	<b>360</b>	<b>100</b>	<b>858.4625, 858.7125</b>
Free Hold	40° 15' 48.60" N	74° 14' 55.30" W	60.9	Sinclair SC479-HF1LDF	360	100	858.4625, 858.7125
Mobile	30 km Radius around Neptune						813.4625, 813.7125

**Table 1: Detailed State of NJ Information**

Technical questions regarding the proposed applications can be directed to:

David Stern  
V-COMM, L.L.C.  
2147 Route 27, Suite 102  
Edison, NJ 08817-3365  
(609) 655-1200, fax (609) 409-1927, email: [david.stern@vcomm-eng.com](mailto:david.stern@vcomm-eng.com)

The State of NJ respectfully requests that New Jersey Transit sign and return (electronically) the below to serve as a letter of concurrence that New Jersey Transit, operating under Call Sign WQUR570, does not object to the State of NJ's application, and that New Jersey Transit's system is fully constructed and operational.

You may also provide a Letter of Concurrence based on the technical parameters outlined in this letter.

Signature: Andrew E. Schwartz Date: 2/7/2023  
Andrew E Schwartz

Thank you for your anticipated cooperation. If you have any questions, please contact me at (609) 584-5007 or David Stern at V-COMM, (609) 655-1200.

Sincerely,

Edward Zapf  
Edward Zapf  
NJSP Operational Technology & Interoperability Bureau  
P.O. Box 7068  
River Rd., West Trenton 08628

cc: David Stern, V-COMM, L.L.C.