**ENGINEERING STATEMENT**

This displacement application is submitted pursuant to the Special Displacement Window PN released February 9, 2018 (DA 18-124), to modify the licensed facility of W22EW-D, Channel 22, West Orange, NJ, Facility ID 127813, FCC File Number 0000018995, licensed to the Applicant herein.

**Nature of Displacement**

 W22EW-D is displaced due to the following interference:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Call Sign** | **Channel** | **City and State** | **FCC File Number** | **Interference** |
| WDVB-CD | 22 | Edison, NJ | 0000034859, CP | 1.15% Pairwise IX23.32% AGG IX |

**Proposed Facility**

The Applicant proposes to move W22EW-D to channel 5. The proposed facility is less than 30 miles distance from the existing licensed facility. The F(50,90) 51 dBu contours of the proposed facility overlaps with the F(50,90) 51 dBu contours of the existing licensed facility. The proposed facility was studied using TVStudy v2.2.5 using the following parameters and the results are as follow:

* Study cell size: 1.00 km
* Profile point spacing: 1.00 km
* Distance to Canadian border: 378.9 km
* Distance to Mexican border: 2657.6 km
* Conditions at FCC monitoring station: Laurel MD
* Bearing: 231.3 degrees Distance: 283.4 km
* Proposal is not within the West Virginia quiet zone area
* Conditions at Table Mountain receiving zone:
* Bearing: 278.7 degrees Distance: 2606.0 km

 The proposed facility does not cause interference to the predicted service of: (1) all other primary users in the repacked TV Band or in adjacent bands including land mobile operations, (2) licenses and valid construction permits for LPTV/translator stations; (3) licenses and valid construction permits for full power and Class A stations that were not reassigned; (4) the post-auction channels of reassigned full power and Class A stations as reflected in the Closing and Reassignment Public Notice, and (5) the alternative channels and expanded facilities proposed during the two filing windows by reassigned full power and Class A stations.

It is believed that the proposed facility complies with 47 C.F.R. Sections 74.709, 74.793(e), 74.793(f), 74.793(g), 74.793(h).

**Waiver Request**

The Applicant hereby requests to waive the contingent application rule 47 C.F.R Section 73.3517 to allow the grant of this application which is necessary for the station to continue to serve its current viewers.

 In addition, in order to comply with Section 73.3700(g)(2), the Applicant agrees to a condition that the proposed facility will not commence operation until any other potentially mutually interfering repacked full power or Class A stations have left their channels pursuant to the relevant phase assignment.

**Digital TV and Class A Station Protection**

 Except as referenced above, the proposed facility causes less than 0.5% interference to surrounding digital and Class A television stations and allotments and facilities (i.e., “*de minimis*”) based on TVStudy v2.2.5. It is believed that the proposed operation is in compliance with the spirit and intent of the FCC’s interference standards.

**Low Power TV and TV Translator Station Protection**

 The proposed facility of W22EW-D is predicted to cause interference to FCC File Number BDCCDVL-20110630AFY for W05DE-D. Both facilities are licensed and permitted to the Applicant and the Applicant hereby agrees to accept such interference.

 Except as reference above, the proposed facility causes less than 2.0% interference to surrounding low power licenses and construction permits (i.e., “*de minimis*”) based on TVStudy v2.2.5. It is believed that the proposed operation is in compliance with the spirit and intent of the FCC’s interference standards.

**Environment Effect**

The proposed facility is deemed individually and cumulatively to have no significant effect on the quality of the human environment and are categorically excluded from environmental processing as defined by 47 C.F.R. § 1.1306. Additionally, the Applicant certifies that it will reduce power or cease operation as necessary to protect any persons from having RF exposure in excess of FCC guidelines.