





George Youreneff remains under oath. Mr. Youreneff asked if the tower material is flammable and impact of a lightning strike. Mr. Schwartz testified the base of the silo is concrete and then switches to a RF compatible material up top. There will be a lightning rod on the structure. There is adequate access for firefighting equipment.

Elizabeth Palius remains under oath. Ms. Palius asked if a plan could be drawn that shows just how the tower fits into the environment. Mr. Schwartz testified that the Board professionals asked for the details to be shown on the plan.

June Staats remain under oath. Ms. Staats asked where the two accesses to the property are and if the tower could be made shorter. Mr. Schwartz testified there is one driveway from Staats Farm Road and one from River Road. A different witness will provide testimony about the tower height.

Lloyd Staats remains under oath. Mr. Staats discussed the look of the tower over the trees.

Candy Willis remains under oath. Ms. Willis asked if the applicant has a SHPO expert. Mr. Stanzione replied that they have an Environmental Consultant that filed the application with SHPO and he will testify at a future meeting.

David Vair remains under oath. Mr. Vair noted the other towers proposed in the area and asked if they were all needed. He asked if the antenna could go on other high structures in the area. Mr. Stanzione replied that another witness will provide testimony.

Barbara Ten Broeke remains under oath. Ms. Ten Broeke asked if two smaller silos could be installed instead of one large one or if a tree tower could be used. Mr. Stanzione replied that another witness will provide testimony.

Ms. Palius asked if this application would go away if the application in Hillsborough is approved. Mr. Stanzione said it would not.

Mr. Vain asked if the tower would be available for only other retail cellphone companies. Mr. Stanzione replied that the next witness will address the issue however he represented to the Board that it will be made available to all licensed FCC wireless carriers under master collocation agreements.

Vandana Vyas remains under oath. Ms. Vyas asked about the landscape buffer. Mr. Schwartz testified the plantings will be 8' high at the time of planting and 3' in diameter spaced 5' on center. At this time they do not know the exact species and they have agreed to work with the Township Landscape Architect.

Dominic Villecco was sworn in. Mr. Villecco gave the Board his qualifications and was accepted as an expert in the field of wireless communications. Mr. Villecco has prepared a RF Analysis and Report dated October 7, 2014, an Alternate Candidate Analysis report dated February 11, 2015, an Alternate Antenna Height Analysis dated March 23, 2015 and a Revised RF Analysis and Report dated April 5, 2016. Mr. Villecco discussed the Revised RF report. Verizon has both low band and high band FCC licenses. Low band are in the 700 megahertz to 850 megahertz band and high band are in the 1,900 megahertz to 2,100 megahertz band. The system operates from a variety of locations from some type of an elevated structure. The frequencies are all line-of-sight communication so they have a limited distance. The high band frequencies run out of coverage sooner and the lower frequencies cover a little further. All communications are two-way. When determining a site location Verizon comes up with minimum threshold signal levels. Table 1 of the Revised RF report shows the existing, proposed and approved Verizon Wireless sites in and around Montgomery Township. Mr. Villecco read the chart into the record. Map 1 shows the locations of the sites. A map entitled "New York SMSA Limited Partnership d/b/a Verizon Wireless, Montgomery Township, New Jersey, Existing Sites Without Griggstown Alternative Site" was marked as Exhibit A-3. The map shows the existing and proposed facilities in the area. Mr. Villecco showed an acetate overlay of a computer generated coverage map with the standard of minus 95 dBm RSRP that Verizon uses for reliable service. The overlay shows the high-band coverage or the AWS (2,100 megahertz) which was chosen because it has the least coverage. Verizon is in the process of switching over to 4G for all bands. There is a huge gap in service, well beyond what you would normally refer to as significant. On the high bands Verizon is not even close to barely adequate. A plan entitled "New York SMSA Limited Partnership d/b/a Verizon Wireless, Montgomery Township, New Jersey, Existing Sites With Griggstown Alternative Site" was marked as Exhibit A-4. This exhibit shows the coverage from the proposed silo in addition to the other existing sites. The coverage from the silo goes a little north of Township Line Road, up along River Road, crosses over into Franklin, along Canal, parts of Butler and Bunker Hill then south to about halfway between Willow Road and Dead Tree Run Road and the west a little past Green Avenue. This is one of several sites that will provide coverage. The purpose of the proposed silo is to cover the area that is centered around the Griggstown part of the township; about one and a half mile coverage radius in all directions. By adding this site more bandwidth and more capacity is added into the network. It will redistribute traffic throughout the area in addition to providing additional service. The tower in Hillsborough can't be made taller to cover this area because it will start causing interference in the other parts of the network. The first priority locations in the township ordinance were reviewed and an explanation of why they could not be used was given for each site. None of the first priority locations are within two miles of this site.

Chairman DeRochi opened the meeting to the public to question Mr. Vellicco.

Robert Wilmot remains under oath. Mr. Wilmot asked what the height of the silo has to be to just get Verizon service. Mr. Villecco responded that Verizon performed tests at 100', 110' and 120' and found that they needed a minimum height of 120'. The gap was not filled at a lower height.

Ms. Staats asked if the silo had to be 135' tall. Mr. Villecco responded that the dome on the silo is what makes it that tall.

Mr. Wilmot said if the height was at 90' they might not lose that much coverage. Mr. Vellicco replied it would go down to roughly one and a quarter miles. Small cell only covers a very small area, it is not enough to fill the gap.

Susan Gulliford remains under oath. Ms. Gulliford asked if the Verizon website shows that there is coverage in the area. Mr. Vellicco said it does but there is a disclaimer of what red means. Based on actual signal strengths and test that were done differs from what the website shows.

Ms. Palius asked if a call to 911 could be made in the area. Mr. Villecco said you probably could if you were on River Road but probably would not if you were in a building.

The application was continued to the August 23, 2016 Zoning Board meeting. There will be no further public notice. The applicant signed an extension to October 31, 2016.

#### **IV. MINUTES**

##### **May 17, 2016 – Regular Meeting**

A motion to approve the minutes was made by Mr. Fedun and seconded by Mr. O'Brien. The motion carried on the following:

Ayes: Fedun, Kristjanson, Post, O'Brien and DeRochi

Nays: None

##### **May 24, 2016 – Regular Meeting**

A motion to approve the minutes was made by Mr. Kristjanson and seconded by Mr. Vecchione. The motion carried on the following:

Ayes: Fedun, Kristjanson, Post, Thompson, Vecchione and DeRochi

Nays: None

##### **June 28, 2016 – Regular Meeting**

A motion to approve the minutes was made by Mr. Post and seconded by Mr. Thompson. The motion carried on the following:

Ayes: O'Brien, Thompson and DeRochi

Nays: None

There being no further business to come before the Board, the meeting was adjourned at 10:35 p.m.