

The Black Nubble Wind Farm

## **Section 19: Flooding**

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## **1.0 Explanation of Flooding Impact**

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The project area has not been mapped by FEMA.

The mountaintops where wind turbines will be located are obviously not at risk of being within 100-year floodplains. No permanent structures are planned within a floodplain, including the new valley substation and the maintenance facility.

The power line corridors will be cleared of trees and allowed to revegetate with native shrubs and brush, which will allow the area of the power line corridors to continue to absorb rainwater.

The proposed access roads will provide cross-culverts designed to convey the 25-year storm runoff without surcharge. As noted in Section 12 (Stormwater Management) additional headwater capacity is available, which provides substantial added flood conveyance capacity (in excess of a two-fold increase) for the roadway crossing culverts.

The existing IP road and other logging roads that provide access to the project area have been in use for many years without flooding problems, except for IP road itself, near state Route 16. This segment was relocated several years ago from its old alignment (now the privately owned Nash Stream Road) to its current location outside any areas susceptible to flooding from Nash Stream.

Based on the above, the Black Nubble Wind Farm will not cause flooding or have a noticeable effect on runoff infiltration, in accordance with the No Adverse Impact standard of LURC Chapter 10 and DEP Site Law regulations.