

FEBRUARY 1, 2021

RESOLUTION NO. 21-1687

**A RESOLUTION ADOPTED BY THE BOARD OF COMMISSIONERS  
OF THE TOWN OF FUQUAY-VARINA, NC  
AMENDING THE WAKE COUNTY HAZARD MITIGATION PLAN  
FUQUAY-VARINA AMENDMENT NO.1  
ATTACHMENT A – ANNEX E**

- WHEREAS, Fuquay-Varina is vulnerable to an array of natural hazards that can cause loss of life and damages to public and private property; and
- WHEREAS, Fuquay-Varina desires to seek ways to mitigate situations that may aggravate such circumstances; and
- WHEREAS, North Carolina Emergency Management's Hazard Mitigation Section has reviewed the currently adopted Wake County Multi-Jurisdictional Hazard Mitigation Plan for compliance with Stafford Act requirements and recommended amendments to the plan.

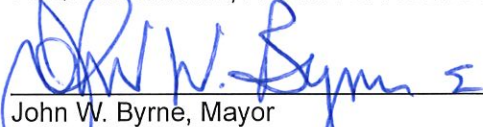
NOW, THEREFORE, BE IT RESOLVED, by the Board of Commissioners of the Town of Fuquay-Varina the following:

1. Adopts Amendment One, Attachment A to the Fuquay-Varina Annex to the Wake County Multi-Jurisdictional Hazard Mitigation Plan.
2. Agrees to take such other official action as may be reasonably required to carry out the proposed dam risk analysis and identified program of repairs to the extent that such are eligible under the FY 2020 BRIC Program.
3. Agrees to incorporate the salient points of this amendment into the next update of the Fuquay-Varina Annex E to the Wake County Multi-Jurisdictional Hazard Mitigation Plan.

BE IT FURTHER RESOLVED, by the Board of Commissioners of the Town of Fuquay-Varina that this resolution shall take effect immediately upon its adoption.

Adopted this the 1st day of February 2021 in Fuquay-Varina, North Carolina.

FUQUAY-VARINA, NORTH CAROLINA

  
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John W. Byrne, Mayor

ATTEST:

(TOWN SEAL)

  
\_\_\_\_\_  
Rose H. Rich, Town Clerk



**Amendment 1 to the Wake County Multi-Jurisdictional Hazard Mitigation Plans December 3, 2019:  
Attachment A for Town of Fuquay-Varina, NC**

Amendment to Wake County Multi-Jurisdictional Hazard Mitigation Plan (Town of Fuquay-Varina, NC)  
Dated December 3, 2019  
Amended as of February 1, 2021

This Amendment applies to:

Section 4 Hazard Identification; Section 4.5.1 Dam Failure, page 61; Strategy Annex E, Town of Fuquay-Varina; Mitigation Action Plan Section 7, Table 7.5, p. 240-241

Following adoption by The Town of Fuquay-Varina on February 1, 2021 the following is an amendment to the above referenced hazard mitigation plan to meet the planning requirements of the FEMA BRIC Program, to wit: adding mitigation actions related to high hazard dam failure.

**Background**

The Dam Safety Program at NCDEQ has identified Crooked Creek Dam as a High Hazard Dam due to the risk of loss of life and property damage in the event of failure.

The Town of Fuquay-Varina wishes to pursue grant funding under the FEMA BRIC program for purposes of making modifications to the Crooked Creek Dam in an effort to mitigate risk to people and property.

Dam and Levee Failure is identified as a moderate hazard in section 4.5.1 of the current plan and is assigned a hazard score of 2.4 (Probability 2, Impact 3, Spatial Impact 1, Warning Time 4, Duration 3; aggregate score 2.4) resulting in a Moderate hazard rating. (Page 71, Wake County MJHMP)

Annex E addresses mitigation Strategies for the Town of Fuquay-Varina. Section 7, Mitigation Action Plan, Table 7.5 pages 240-241 identifies four Public Outreach and Education measures applicable to the Dam Failure Hazard.

**Attachment A to Annex E of The Wake County Multi-Jurisdictional Hazard Mitigation Plan dated 12-3-19**

By adoption, this amendment adds by reference the following eleven structural mitigation measures to Table 7.5 of the plan. These amended items will be incorporated into the table upon the occasion of the next plan update.

Each of the following measures is aligned with **Goal 3: Minimize threats to life and property** by protecting the most vulnerable populations, buildings, and critical facilities through the implementation of cost-effective and technically feasible mitigation actions. **Objective 3.1** Retrofit, harden, or otherwise protect critical facilities and infrastructure to protect against damages and ensure continuity of operations during hazard events. Analysis using NCEM's Risk Management Tool a **Priority of Medium** is assigned to each new measure.

The lead agency for these new measures is Town of Fuquay-Varina Engineering Department  
The estimated cost is To Be Determined

Funding sources include Local Funds, State Funds, Federal Funds, Other Sources

Implementation schedule is 2-5 years

2019 Status is Not Started

New Mitigation Measures:

- SP-1) Geotechnical investigation to establish data for risk analysis and development of engineering designs/solutions
- SP-2) Implementing engineered design solutions to improve performance/safety of existing dam
- SP-3) Property Acquisition in inundation area(s) below dam
- SP-4) Raise crest of dam to increase storage capacity
- SP-5) Add additional spillways, widen or lower existing spillways to increase discharge capacity
- SP-6) Warning systems to alert downstream areas of potential dam failure
- SP-7) Improve flow path below dam to increase conveyance capacity
- SP-8) Encourage conservation or re-forestation of upstream land to reduce runoff
- SP-9) Development of community Stormwater Management Plans for upstream communities
- SP-10) Complete an Emergency Action Plan in conjunction with NCDEQ for all High Hazard Dams in the county
- SP-11) Permanently breach hazardous dams, or modify risers such that dam can no longer impound water, but may still provide attenuation of peak flooding by acting as a stormwater retention feature