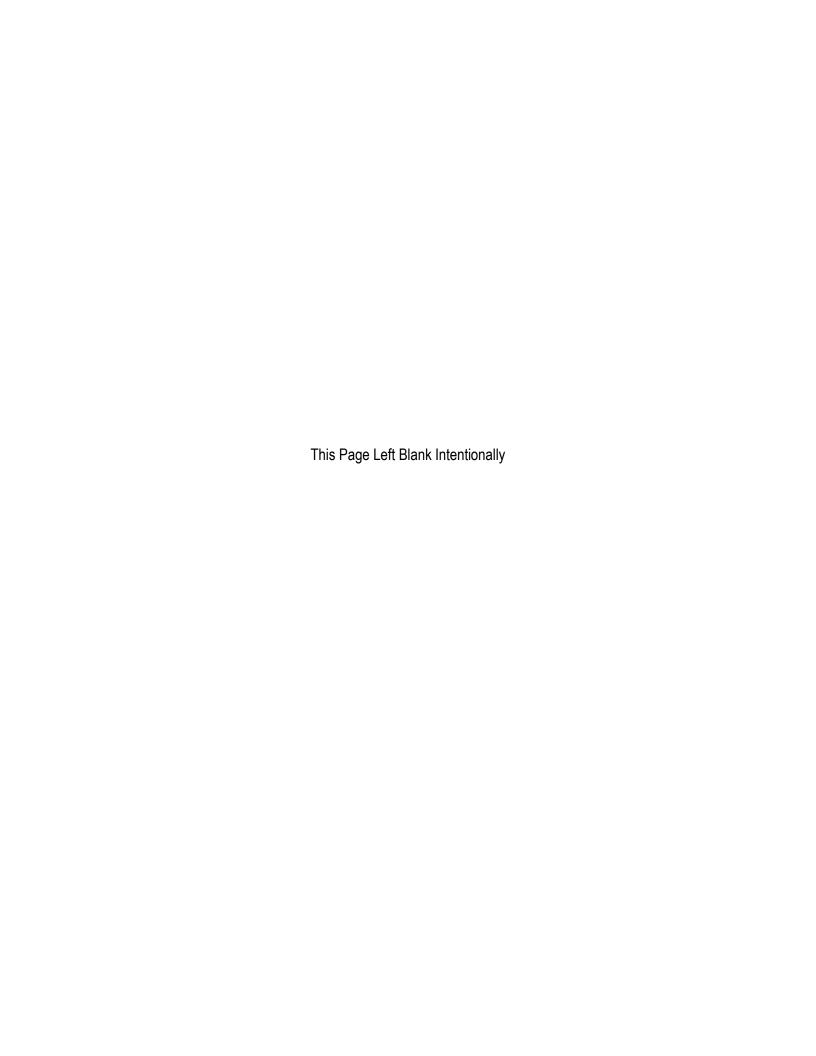




Emergency Operations Plan Dam Safety Annex

December 22, 2020





PLAN DOCUMENTATION

RECORD OF CHANGES

Change #	Page #	Section	Summary of Change	Change Made By	Date
1					
2					
3					

PREFACE

RELATED AUTHORITIES

Legal authority to undertake the development of the Emergency Operations Plan and subsequent actions in an emergency derives from the Goochland County Board of Supervisors.

See Authorities in the EOP Base Plan for general authorities and references.

STATE AUTHORITIES

• The Virginia Dam Safety Act (All dams are included except those which are specifically excluded).

ABBREVIATIONS AND ACRONYMS

CDC	Centers for Disease Control and Prevention			
СООР	Continuity of Operations			
EOP	Emergency Operations Plan			
EPT	Emergency Planning Team			
FEMA	Federal Emergency Management Agency			
FMA	Flood Mitigation Assistance			
HAZMAT	Hazardous Materials			
НМС	Hazard Mitigation Coordinator			
HMGP	Hazard Mitigation Grant Program			
HMP	Hazard Mitigation Plan			
IA	Individual Assistance			
NFIP	National Flood Insurance Program			
PA	Public Assistance			
PDM	Pre-Disaster Mitigation			
PPE	Personal Protective Equipment			
SDS	Safety Data Sheets			
VDH	Virginia Department of Health			
VDOT	Virginia Department of Transportation			
WHO	World Health Organization			

GOOCHLAND COUNTY 4 2020

TABLE OF CONTENTS

Plan Documentation	3
Record of Changes	3
Preface	4
Related Authorities	4
State Authorities	4
Abbreviations and Acronyms	4
Table of Contents	5
Introduction	6
Purpose	6
Mission	6
Scope	
Concept of Operations	7
General	
Plan Requirements	7
Classification	8
Dam Emergency Stages	8
Response Roles and responsibilities	9
Attachment A: Directory of Dams	11
Attachment 1: Dam Safety Corrective Action Form	16
Attachment 2: Proposed Annex Change Form	17

INTRODUCTION

PURPOSE

The purpose of this annex is to identify and locate dams in the County that may cause problems in the event they collapse or are breeched in some manner and to provide for the protection of those people who may be affected but such conditions.

MISSION

To provide protection to those residents in the vicinity of dams by taking actions necessary to prevent dam failures and, in the event there is a dam failure, to keep personal injury and property damage to a minimum.

SCOPE

This Annex applies to all dams located in the County and those agencies that are involved in dam safety as well as those that would be involved in responding to a dam collapse event. **See Attachment 1: Directory of Dams.**

CONCEPT OF OPERATIONS

GENERAL

The Virginia Dam Safety Act covers the basic dam safety responsibility for dams in the Commonwealth. The Virginia Dam Safety Act covers the basic dam safety responsibility for dams in the Commonwealth. All dams are included except those which are specifically excluded.

The owner of each dam is responsible for its safe and proper design, construction, operation, and maintenance. Owners of dams that exceed 25 feet in height, impound more than 50 acre-feet (100 acre-feet for agricultural purposes) of water, and are not regulated by others must comply with the Virginia Dam Safety Act. Smaller dams are excluded.

Dams that exceed 25 feet in height and impound more than 50 acre-feet (100 acre-feet for agricultural) are classified in one of four classifications according to the degree of hazard potential they impose should the structure fail.

PLAN REQUIREMENTS

All regulated dams except Class IV (potential damage confined to the owner) require that the owner prepare an Emergency Action Plan.

The owner of each Class I, II, and III dam covered by the Virginia Dam Safety Act is required to prepare an Emergency Action Plan (EAP) which shall include a method of notifying local authorities and notifying and warning persons downstream of the dam in the event of an impending dam failure or overtopping. A copy of each EAP must be provided to the affected local government.

An "Emergency Action Plan" is one of three items required prior to issuance of an Operation and Maintenance Certificate by the Virginia Department of Conservation and Recreation. In addition to the Virginia Department of Conservation and Recreation, a copy of the plan must be provided to the local Director of Emergency Services and to the Virginia Department of Emergency Management.

GOOCHLAND COUNTY 7 2020

CLASSIFICATION

Dams are ranked by level of risk, as follows:

Classification	Description	Quantity in Goochland Co.
Class I (High Hazard)	Probable loss of life	0
Ciass i (iligii ilazaiu)	Excessive economic loss	
Class II (Moderate	Possible loss of life	1 Regulated
Hazard)	Appreciable economic loss	2 Non-Regulated
2 1 111 /1 11 15	No loss of life expected	7 Regulated
Class III (Low Hazard)	Minimal economic loss	17 Non-Regulated
21 B //1 11 B	No loss of life expected	N/A
Class IV (Low Hazard)	No economic loss to others	IV/A

DAM EMERGENCY STAGES

The following table identifies and defines Goochland County's Dam Emergency Stages:

Stage	Description	Actions
Stage I	Slowly developing conditions; five days or more may be available for response. Owner should increase frequency of observations and take appropriate readiness actions.	The affected public will be routinely notified of conditions at a dam.
Stage II	Rapidly developing conditions; overtopping is possible. One to five days may be available for response. Increase readiness measures. Notify local Coordinator of conditions and keep him informed.	The public in the potential inundation area downstream will be alerted for possible evacuation.
Stage III	Failure has occurred, is imminent, or already in flood condition; overtopping is probable. Only minutes may be available for response. Evacuation recommended.	Local government will declare a local emergency and order an evacuation. It is recognized, of course, that a dam may collapse without warning.

RESPONSE ROLES AND RESPONSIBILITIES

Role	Responsibilities
Dam Owners	 Report abnormal conditions at the dam to the Sheriff and the Coordinator of Emergency Services Owners of dams that exceed 25 feet in height and impound more than 50 acre-feet (100 acre-feet for agricultural purposes) of water must develop and maintain an "Emergency Action Plan." This plan shall include a method of notifying and warning persons downstream and of notifying local authorities in the event of impending failure of the dam.
	Each dam EAP will identify the inundation area and persons to be evacuated.
Emergency Services	Develop and maintain a local Emergency Operations Plan (EOP) which identifies any federal or state regulated dams in their jurisdiction and which sets forth procedures for the evacuation of persons downstream.
	Coordinate technical assistance in evacuation planning, and in determining most viable and alternate transportation routes and modes of transport
	Facilitate evacuation from affected areas
	 Identify evacuation site(s)
	Develop evacuation and emergency operations procedures for at-risk locations
	Develop evacuation traffic management plan
	 Monitor evacuation traffic flow/demand and adjust evacuation traffic management plan and measures as appropriate
	Develop, coordinate, and deliver evacuation traveler information directly to the public and through the media
	 Develop plans, procedures and policies for coordinating, managing and disseminating public information

- Develop procedures for notifying residents and general public related to entering, repairing, and reoccupying condemned and damaged buildings
- Identify public information needs of the affected area
- Provide recovery and re-entry information
- Notify residents and general public about entering, repairing, and reoccupying condemned and damaged buildings
- Notify building owners about standards and permitting requirements for repairing and reoccupying condemned or damaged buildings or having utilities reconnected

GOOCHLAND COUNTY 10 2020

ATTACHMENT 1: DIRECTORY OF DAMS

Class	Name	Height	Max Capacity (acre- feet)	Туре	Purpose	Owner
Class I	None					
Class II Regulated	Dover Lake Dam	36'	1,631	Earth	Irrigation & Recreation	Sabot Hill Farm, Inc.
Class II	Gathright's Dam	20'	60	Earth	Recreation	L.K. Gathright
Non- regulated	Harris Pond Dam	17'	143	Earth	Recreation	D.H. Leake
	Bowles Dam	37'	137	Earth	Recreation	William DeRushe
	Broad Branch Dam	29'	1,188	Earth	Recreation	CBR Associates, Inc.
	Lake Dillon Dam	39'	600	Earth	Recreation	BSA, RE Lee Council
Class III Regulated	Pickett's Creek	37'	1,318	Earth	Water supply, recreation, flood control, irrigation	Southbury Corp. Farm Mgmt.
	Pruitts Dam	26'	180	Earth	Recreation	Lee Hoehny
	Reservoir No.	28'	360	Earth	Irrigation	Hermitage CC
	Westview Dam	44'	273	Earth	Recreation	Westview on the James

	Bolling Hall	20'	224	Earth	Recreation, Water Supply	B.C. Gottwald
	Bonneys Dam	15'	64	Earth	Recreation	Henley, Bonney, Markowitz
	Broad Branch Dam (Reservoir No. 2)	24'	333	Earth	Irrigation	Hermitage CC
	Carter & Harrell	24'	248	Earth	Recreation, water supply	Camptown Owners Assoc., Inc.
	Childress Dam	16'	76	Earth	Recreation	C. P. Childress
	Fairfield Dam	19'	78	Earth	Recreation	Martha Hume
Class III Non- regulated	Killerney Dam	24'	234	Earth	Recreation	Thomas Knox Lively
rogulatoa	Lake Fullstream	24'	83	Earth	Irrigation & Recreation	Dr. J. A. Shield
	Licking Hole Farm Dam	24'	252	Earth	Recreation, water	F. D. Gottwald, Jr.
	Mayo- Alexander's	23'	165	Earth	Recreation	Howard and Mayo
	Mt. Bernard Dam	16'	240	Gravity	Recreation, flood control, water supply, irrigation	J. K. Perrin-T. J. Starke
	Patterson & Stettinius Dam	26'	98	Earth	Recreation	Andrew W. & Nancy N. Dykers
	Queensmere Dam	21'	113	Earth	Irrigation, recreation	Jack Cronley

	Reynolds Dam	24'	105	Earth	Recreation	Lawrence J. Page
Class III Non-	Richmonds Dam	23'	62	Earth	Recreation	C. F. Richmond
regulated (continued)	Volchers Dam	24'	66	Earth	Recreation	F. R. Volcher
	Windsor Park Lake Dam	21'	105	Earth	Recreation	Windsor Park Land Owners

Name	LAT / LONG	E-911 Address		
Dover Lake	37.62553	755 Merry Go Round Rd., Manakin Sabot, VA 23103		
Dam	-77.74451	733 Welly Go Round Rd., Wallakin Gabot, V/ 23103		
Gathright's	37.68649	2940 Pitts Dr., Goochland, VA 23063		
Dam	-77.89114	2340 Fills Dr., Goodhidha, VY 20000		
Harris Pond	37.82056	4146 Broad Street Rd., Gum Spring, VA 23065		
Dam	-77.96013	4140 Blodd Glicot Nd., Gdill opining, VV 20000		
Bowles Dam	37.71350	1686 Broad Street Rd., Maidens, VA 23102		
Downed Built	-77.80140	1000 Bload Street Nd., Maidens, VA 20102		
Broad	37.63339	100 Kinloch Ln., Manakin Sabot, VA 23103		
Branch Dam	-77.68733	Too Tunicon Em, manaturi Sabot, V/CE0100		
Lake Dillon	37.67613	1723 Maidens Rd., Maidens, VA 23102		
Dam	-77.86254	Trze maidene rai, maidene, vrze rez		
Pickett's	37.66442	5345 Whittcamp Rd., Goochland, VA 23063		
Creek	-78.04779	oo to Trimicounip Trail, Goodinand, Tri 20000		
Pruitts Dam	37.78736	3350 Lake Dr., Sandy Hook, VA 23153		
witto Buill	-77.97367	Jose Land Str., Garlay Floori, Tri Lo 100		

GOOCHLAND COUNTY 13 2020

Reservoir	37.64561				
No. 1	-77.70573	1248 Hermitage Rd., Manakin Sabot, VA 23103			
Westview	37.64592	1231 West View Rd., Goochland, VA 23063			
Dam	-78.0028	1231 West View Ru., Goodiland, VA 23003			
Bolling Hall	37.66864	1705 Rock Castle Rd., Goochland, VA 23063			
Doming man	-77.96393	1703 Nock Castle Na., Goodhana, VA 23003			
Bonneys	37.78442	5380 Community House Rd., Goochland, VA 23063			
Dam	-78.05714	3300 Community Flouse Na., Goodinana, VA 23003			
Broad Broad Dam	37.64198				
Branch Dam (Reservoir	-77.70037	1248 Hermitage Rd., Manakin Sabot, VA 23103			
No. 2)	77.70007				
Carter &	37.63736	585 Blue Goose Rd., Crozier, VA 23039			
Harrell	-77.78062	000 Blac Goode Na., Gloziel, V/120003			
Childress	37.69843	183 Childress Rd., Rockville, VA 23146			
Dam	-77.69371	The second state of the second			
Fairfield	37.70018	3884 Big Hickory Dr., Goochland, VA 23063			
Dam	-77.95730	Soo i Big i notory Bi., Goodinana, VV 20000			
Killarney	37.83258	4070 Lake Killarney, Gum Spring, VA 23065			
Dam	-77.97648	1070 Zako ramamoy, Gam opinig, 171 Zagoo			
Lake	37.65930	1289 Full Stream Farm Rd., Manakin Sabot, VA 23103			
Fullstream	-77.76371	1200 1 am 0.100m 1 am 1 ta., mananan 0 azot, 77 20 100			
Licking Hole	37.69095	1550 Rock Castle Rd., Goochland, VA 23063			
Farm Dam	-77.99075				
Mayo-	37.79573	5722 Mayo Lake Drive, Columbia, VA 23038			
Alexander's	-78.07304				
Mt. Bernard	37.66716	2210 Denver Ln., Maidens, VA 23102			
Dam	-77.85537				
Patterson &	37.69968	3831 River Road W., Goochland, VA 23063			
Stittius Dam	-77.94528	333. Turor road Tri, 3000mana, 171.2000			

GOOCHLAND COUNTY 14 2020

Queensmere Dam	37.68204 -78.05041	1500 Old Bunker Hill Rd., Goochland, VA 23063
Reynolds Dam	37.67574 -77.78809	1614 Genito Rd., Manakin Sabot, VA 23103
Richmonds Dam	37.64837 -77.81604	1858 River Road W., Crozier, VA 23039
Volchers Dam	37.67183 -78.06136	5450 Whittcamp Rd., Goochland, VA 23063
Windsor Park Lake Dam	37.86928 -78.01638	4369 Windsor Lake Dr., Louisa, VA 23093

GOOCHLAND COUNTY 15 2020

ATTACHMENT 2: DAM SAFETY CORRECTIVE ACTION FORM

Instructions: This form is used to document, report, and act on identified concerns. Please email the completed form with the top portion completed to: rhillman@goochlandva.us. The issue will be tracked and routed to the appropriate department for action.

CORRECTIVE ACTION FORM	Date:			
Name:	Department:			
Phone:	Email:			
ISSUE IDENTIFIED				
Location:	Description o	of the issue:		
COUNTY EMERG	ENCY SERVICE	ES USE		
Reviewed by: Department referred to:				
Corrective Action Needed:				
RESOURCES	ι	INIT COST	QUANTITY	LINE TOTAL
Labor:				
Parts:				
Supplies:				
		TOTAL CO	ST ESTIMATE	
Additional Notes or Instructions:			Approved by:	

ATTACHMENT 3: PROPOSED ANNEX CHANGE FORM

Instructions: This form is used for a change to the Dam Safety Annex. Please email the completed form with the top portion completed to: rhillman@goochlandva.us.

ANNEX C	HANGE FORM	Date:		
Name:		Department:		
Phone:		Email:		
CHANGE REQUESTED				
Annex Page(s)	Reason for Change:			
	Proposed Change Language	:		
COUNTY EMERGENCY SERVICES USE				
	COUNTY EMERGI	ENCY SERVICES USE		
Reviewed by:	COUNTY EMERGI	Change Approved? Yes No		
Reviewed by: Approved Change Lan				
Approved Change Lan	guage:	Change Approved? Yes No		
	guage:			
Approved Change Lan	guage:	Change Approved? Yes No		