

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Appendix L of the Plan Update presents the programmatic and island-specific actions in a matrix format that depicts the prioritization and strategic planning conducted necessary to lead to effective implementation.

The evaluation technique use a weighted **STAPLEE** scoring formula described below:

Social; the mitigation strategy must be socially acceptable.

- **S** high (3); moderate (2); low (1); and neutral or unknown (0)

Technical; the proposed action must be technically feasible.

- **T** feasible (1); not applicable or unknown (0)

Aministrative; the community must have the capability to implement the action (for example, the logical lead agency must be capable of carrying out oversight of the project).

- **A** existing capability (3); training needed (2); staff needed (1); NA

Political; mitigation actions must be politically acceptable.

- **P** high (3); moderate (2); low (1); NA or neutral (0)

Legal; the community must currently have the authority to implement the proposed measure.

- **L** yes (1); no (0)

Economic; economic considerations must include the present economic base, projected growth and opportunity costs.

- **E** weighted at high (6); moderate (4); low (2); neutral or unknown (0)

Environmental; the impact on the environment must be considered because of statutory considerations and the public's desire for sustainable and environmentally healthy communities.

- **E** high adverse (-3); moderate (-2); minor (-1); NA or unknown (0); and beneficial (2)

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A separate matrix is provided for each programmatic or island-specific action that includes the following information:

- Description of the mitigation action,
- Potential for Loss Reduction Rating,
- Priority ranking,
- The goal and objective that the action is intended to achieve,
- The specific hazard the action is intended to achieve (or all hazard),
- Responsible agency, department or division,
- Projected timeframe, Short Term (1-2 years), Medium Term (3-5 years), and Long Term (6-10 years)
- Projected resources,
- Comments on rationale for action, contribution to goal, or other comment, and
- STAPLEE criteria evaluation, by individual criterion and total score.

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TERRITORIAL MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-1	VITEMA to work with DPW in strengthening a program and provide adequate annual budget to remove built up sediment, debris and maintain natural guts, roadside ditches, drainage channels and storm drains.	Goal 1, Objective1.1	H	1			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments	This action has potential for minimizing flood related damages and losses. DPW will need to perform an internal analysis of costs (internal human resources as well as cost associated with operating machinery) in order to develop an adequate budget. Adequate funding is a serious constraint for the implementation of this action.						
Projected resources	Dedicated annual line item for DPW.						
S	T	A	P	L	E	E	Score
3	1	1	1	1	4	2	13

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-7	Define and implement arrangements for the collection of data on Landslides that can affect the Territory including information on location (maps), history, and probability of hazard events.	Goal 4, Objective 4.1	M	6			
Hazard	All Hazards						
Lead Agency	DPW, VITEMA						
Projected Timeframe	Medium Term						
Comments	The collection of hazard data, especially data related to hazard identified in the Plan, is vital on developing more accurate vulnerability and risk assessments.						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-8	Define and implement arrangements for the collection of data on the Wildfire that can affect the Territory including information on location (maps), history, and probability of hazard events.	Goal 4, Objective 4.1	M	7			
Hazard	All Hazards						
Lead Agency	DPW, VITEMA						
Projected Timeframe	Medium Term						
Comments	The collection of hazard data, especially data related to hazard identified in the Plan, is vital on developing more accurate vulnerability and risk assessments.						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-10	Define and implement arrangements for the collection of data on Drought that can affect the Territory including information on location (maps), history, and probability of hazard events.	Goal 4, Objective 4.1	M	8			
Hazard	All Hazards						
Lead Agency	DPW, VITEMA						
Projected Timeframe	Medium Term						
Comments	The collection of hazard data, especially data related to hazard identified in the Plan, is vital on developing more accurate vulnerability and risk assessments.						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-6	Construct a database management program and develop procedures to collect information on and to track repetitive loss properties in the Territory	Goal 4, Objective 4.1	H	5			
Hazard	Flood						
Lead Agency	VITEMA						
Projected Timeframe	Short Term						
Comments	This action seeks to gather important information for the implementation of island specific actions focused on minimizing losses in high priority repetitive loss properties. This action will help with the implementation of the specific projects but will also facilitate more accurate reporting on the total number of repetitive loss properties targeted or retrofitted by the Territory.						
Projected resources	USVI Operating Budget, PDMC						
S	T	A	P	L	E	E	Score
2	1	1	1	1	2	2	10

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-3	Distribute and require the use of maps that were developed as part of the flood insurance study that delineate natural drainageways (guts) that exceed a specified cross-section or flow in cubic feet per second to appropriate DPNR and DPW staff responsible for development review or engineering design of flood drainage improvement works to prevent encroachment of new development or alteration of natural guts unless necessary for the correction of existing flooding problems.	Goal 1, Objective 1.3	H	4			
Hazard	Flood						
Lead Agency	VITEMA						
Projected Timeframe	Short Term						
Comments	This action focuses on disseminating information important to understanding the dynamics of natural drainageways to facilitate the appropriate design and implementation of flood improvement works.						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
2	1	1	3	1	2	2	12

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-11	Construct a database management program and develop procedures to track mitigation project progress and effectiveness from project award to project completion so as to provide a record on the aggregate actual costs avoided of implemented mitigation projects in the territory.	Goal 4, Objective 4.2	M	9			
Hazard	All Hazards						
Lead Agency	VITEMA						
Projected Timeframe	Short Term						
Comments	Assess the cost effectiveness of mitigation projects						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
2	1	1	1	1	4	0	10

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-5	Develop conceptual retrofit or relocation mitigation projects, including preliminary cost estimates, for retrofitting or relocating essential infrastructure and critical facilities that can be undertaken following a future disaster event (primarily UHMGP funding).	Goal 3, Objective 3.2	H	11			
Hazard	All Hazards						
Lead Agency	DPW, VITEMA						
Projected Timeframe	Medium Term						
Comments	This action would prepare the territory to maximize post-disaster funding, particularly under the HMGP.						
Projected resources	USVI Operating Budget, PDMC						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands -4	Develop worksheets for Government agency facility managers to gather relevant information necessary to support applications to seek federal hazard mitigation funding where appropriate.	Goal 3, Objective 3.1	M	12			
Hazard	All Hazards						
Lead Agency	VITEMA						
Projected Timeframe	Short Term						
Comments	This action would facilitate the process for Federal funding by ensuring that all pertinent information for project grant applications is captured in a simple usable form.						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
2	1	2	3	1	2	0	11

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-3	Strengthen partnerships with the Office of the Governor and media to disseminate information to the general public on hazard mitigation programs and sustainable development concepts.	Goal 1, Objective1.2	M	3			
Hazard	All Hazards						
Lead Agency	VITEMA						
Projected Timeframe	Short Term						
Comments	This action seeks to develop an outreach program to provide the community hazard mitigation educational materials, including those on the NFIP, Community Rating System, as well as repetitive loss properties. These outreach activities will educate citizens on the impact of repetitive loss properties in their communities and flood insurance premiums.						
Projected resources	USVI Operating Budget, PDMC						
S	T	A	P	L	E	E	Score
3	1	1	2	1	2	2	12

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-2	Publicize the availability of print material on hazard data and hazard mitigation tools to professional associations, interest groups, and the private sector.	Goal 1, Objective1.2	L	2			
Hazard	All Hazards						
Lead Agency	VITEMA						
Projected Timeframe	Short Term						
Comments	This action seeks to develop an outreach program to provide the professional associations, interest groups, and the private sector more focused and instructional guidance on hazard mitigation programs and tools, including Flood Insurance Rate Maps, Flood Hazard Data, the NFIP, Community Rating System, as well as repetitive loss properties.						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	3	1	3	1	3	1

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-12	Conduct follow-up activities to engage members of island hazard mitigation committees in an annual review of planning and implementation activities.	Goal 4, Objective 4.3	H	10			
Hazard	All Hazards						
Lead Agency	VITEMA						
Projected Timeframe	Short Term						
Comments	This action relates to Plan Update implementation and action monitoring within the relative agencies concerned with hazard mitigations.						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	2	3	1	2	0	12

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ST. THOMAS PRIORITIZED MITIGATION ACTIONS

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-6	Construct drainage improvements on Rt. 30 adjacent to Bolongo Bay.	Goal 1, Objective 1.1	H	9			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Reduce repetitive flooding on this main roadway by the implementation of appropriate drainage infrastructure						
Projected resource	HMGP, PDMC, FMA						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-13	Enlarge box culverts, storm drains, and improvements to open channels from Veterans Drive to the Bay along the east edge of Frenchtown in southwest Charlotte Amalie (Frenchtown Drainage East), in order to resolve flooding, traffic access and business interruption, by providing 100-year flood protection.	Goal 3, Objective 3.2	H	10			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium term						
Comments	Flooding affects a major thoroughfare and access to an economically important community and also impacts local businesses						
Projected Resource	HMGP, PDMC, FMA						
S	T	A	P	L	E	E	Score
3	1	1	3	0	4	-2	11

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-11	Pursue the acquisition of land for the relocation of the Downtown Fire Station that is susceptible to storm surges and tsunami.	Goal 3, Objective 3.1	H	11			
Hazard	Tsunami, Storm Surge						
Lead Agency	VITEMA, VIFA						
Projected Timeframe	Long Term						
Comments	Provide more suitable location for emergency services and minimize loss from Storm Surge and Tsunami						
Projected Resource	HMGP, PDMC, FMA						
S	T	A	P	L	E	E	Score
2	1	1	1	1	6	0	12

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-17	Resolve flooding problems at Subbase Entrance. Pursue Phase II drainage improvements which include the installation of properly-sized culverts from Bellows across Veterans Drive to connect to Phase I drainage improvements.	Goal 3, Objective 3.2	H	8			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Minimize local flooding to commercial property. Preliminary designs have already been completed for this project.						
Projected resources	HMGP, PDMC, FMA						
S	T	A	P	L	E	E	Score
3	1	1	3	1	4	0	13

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-12	Reinforce Communication Infrastructure from hurricane strength winds to ensure rapid recovery and return to normal service.	Goal 3, Objective 3.1	H	13			
Hazard	Hurricane						
Lead Agency	VITEMA						
Projected Timeframe	Medium Term						
Comments	Minimize the possible loss of local communication infrastructure. VITEMA led initiative that will involve The coordination with several private communication companies.						
S	T	A	P	L	E	E	Score
2	1	1	1	1	4	0	10

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-21	Replace and improve drainage infrastructure at Food Center in order to resolve flooding of roads, businesses, while addressing potential secondary impacts to wetlands.	Goal 3, Objective 3.2	H	14			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Reduce or eliminate repetitive flood damage to infrastructure and commercial property. Surface runoff also affects nearby sensitive wetlands						
Projected Resource	PDMC, HMGP, USVI line item						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-3	Pursue road reconstruction and drainage improvements to resolve recurrent shallow flooding on Radets Gade from Main Street to Veterans Drive that affect businesses.	Goal 1, Objective 1.1	H	15			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	This action would reduce repetitive losses to infrastructure and businesses in the center of the business district						
Projected Resource	HMGP, PDMC						
S	T	A	P	L	E	E	Score
3	1	1	1	1	6	0	13

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-1	Construct Lindberg Estates, Phase IV Drainage Project north through Kirwin Terrace Public Housing Units.	Goal 1, Objective 1.1	H	16			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	The construction of this system would provide controlled water runoff through this residential area and reduce localized flooding						
Projected Resource	HMGP, PDMC						
S	T	A	P	L	E	E	Score
3	1	1	2	1	6	2	16

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-14	Implement drainage improvements to resolve the flooding problems at Coki Point and Smith Bay Roads, and, improvements to open channels draining through the Resort Complex into Water Bay (Smith Bay Basin) to resolve localized flooding problems.	Goal 3, Objective 3.2	H	17			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Some preliminary engineering has been completed designed to alleviate the chronic flooding problem and ensure vehicular and emergency access						
Projected Resource	HMGP, PDMC, USVI Line item						
S	T	A	P	L	E	E	Score
2	1	1	3	1	4	2	14

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-15	Construct drainage improvements to secondary road that provides access to Caret Bay West. Improvements could include paving and/or providing proper roadside drainage and properly-sized culverts.	Goal 3, Objective 3.2	H	18			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Roadway improvements including effective drainage would minimize local flooding and prevent soil erosion						
Projected Resource	HMGP, PDMC						
S	T	A	P	L	E	E	Score
2	1	1	2	1	6	2	15

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-5	Improve drainage infrastructure along Rt. 30 Estate Hope / Fortuna to eliminate flooding of nearby residences in Fortuna 3C Subdivision.	Goal 1, Objective 1.1	H	19			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	The construction of effective drainage would reduce local flooding and consequent property damage						
Projected Resource	PDMC, SRL						
S	T	A	P	L	E	E	Score
3	1	1	2	1	6	0	14

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-18	Complete Installation of Hurricane Shutters at main police station in Charlotte Amalie.	Goal 3, Objective 3.2	L	20			
Hazard	Hurricane						
Lead Agency	DPW, OMB						
Projected Timeframe	Short Term						
Comments	This action would reduce the possibility of Hurricane damage to this critical installation						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	3	1	4	0	13

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-19	Improve drainage infrastructure along Hospital Gade from Antonio Jarvis School to the Police Station on Verteran's Drive, paying particular attention to the intersection of Hospital and Kongens Gade (Moravian Church and Zoras)	Goal 3, Objective 3.2	H	21			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	This improvement would eliminate localized flooding in this major thoroughfare and intersection						
Projected Resource	PDMC, HMGP, USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	1	2	1	4	0	12

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-20	Replace and improve drainage infrastructure along Rt. 33 (Estate Dorothea)	Goal 3, Objective 3.2	M	22			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Reduce possible localized flooding and roadway damage as well as soil erosion						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	2	1	4	2	14

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-2	Pursue road reconstruction and drainage improvements to resolve recurrent flooding on Commandant Gade Gut (Garden Street) from Bunker Hill to Veterans Drive that affect businesses and emergency access.	Goal 1, Objective 1.1	M	23			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	An extensive re-engineering and reconstruction along this busy roadway would reduce possible flooding and property loss as well as enhance emergency access						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-4	Pursue road reconstruction and drainage improvements to resolve recurrent shallow flooding on Storre Tvaer Gade from Main Street to Veterans Drive that affect businesses.	Goal 1, Objective 1.1	M	24			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Short term						
Comments	This action would reduce local flooding and property loss in the center of the business district						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	0	11

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-16	Harden WAPA Substations. Design and construction of hardened switchgear buildings at the East End and Tutu Substations.	Goal 3, Objective 3.2	M	25			
Hazard	All Hazards						
Lead Agency	WAPA, VITEMA						
Projected Timeframe	6 Years						
Comments	This action would reduce the disruption of electrical energy to the growing business community and populous of the east end of St. Thomas and St. John						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	3	1	4	0	12

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-7	Construct drainage improvements for major drainage channel that conveys flood waters from the surrounding Altona and Anna's Fancy areas to resolve recurrent flooding after heavy rainfall events.	Goal 3, Objective 3.2	H	12			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	This improvement would eliminate localized flooding						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	3	1	4	-1	12

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-8	Construct drainage improvements on Turpentine Run (Brookman Road) to alleviate localized flooding.	Goal 3, Objective 3.2	H	5			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments	Committee ranked this stormwater improvement project as being very important for STT						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	3	1	6	-1	14

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-9	Construct drainage improvements to improve the capacity of the drainage system by Yvonne Bowsky Elementary School (Peace Corp) to alleviate localized flooding.	Goal 3, Objective 3.2	H	6			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments							
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	3	1	4	-1	12

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-10	Construct drainage improvements to improve the capacity, and clean, the storm water drainage system in Frydenhoj (next to and across from ball field) to alleviate localized flooding and damage of private property.	Goal 3, Objective 3.2	H	7			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Mid Term						
Comments	Resolving this localized flooding problem would minimize future flood damages to private property						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	3	1	4	-1	12

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-22	Installation of High Impact Hurricane windows at the Department of Property and Procurement.	Goal 3, Objective 3.1	H	2			
Hazard	Hurricane						
Lead Agency	Department of Property and Procurement						
Projected Timeframe	Med Term						
Comments	High benefits in terms of continuity of government operations						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	3	3	1	2	0	13

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-23	Installation of High Impact Hurricane windows at the Department of Public Works.	Goal 3, Objective 3.1	H	1			
Hazard	Hurricane						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments	Continuity of DPW operations following a hurricane is very important						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	3	3	1	4	0	15

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-24	Installation of High Impact Hurricane windows at the Department of Education.	Goal 3, Objective 3.1	H	3			
Hazard	Hurricane						
Lead Agency	DOE						
Projected Timeframe	Short Term						
Comments	Continuity of Government Operations						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	3	3	1	2	0	13

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-25	Installation of High Impact Hurricane windows at the Department of Human Services.	Goal 3, Objective 3.1	H	4			
Hazard	Hurricane						
Lead Agency	Department of Human Services						
Projected Timeframe	Mid Term						
Comments	Continuity of Government Operations						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	3	3	1	2	0	13

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ST. CROIX PRIORITIZED MITIGATION ACTIONS

	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-3	Perform assessment of flooding problems within La Grande Princess Estate. Approximately 50 of 250 NFIP-insured losses in St. Croix (one in five repetitive losses) occur in La Grande Princess.	Goal 1, Objective 1.1	H	7			
Hazard	Flood						
Lead Agency	DPW, DPNR, VITEMA						
Projected Timeframe	Long Term						
Comments	This action contributes to fulfillment of the Territory's requirements for increased federal funding under the SRL. It seeks to reduce severe repetitive property losses.						
Projected Resource	PDMC, HMGP, SRL						
S	T	A	P	L	E	E	Score
3	1	1	3	1	6	2	17

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-15	Improve Recovery Hill Water Storage Tank. Install wind girders to reinforce against hurricane storm winds.	Goal 3, Objective 3.2	M	8			
Hazard	Hurricane						
Lead Agency	WAPA						
Projected Timeframe	Medium Term						
Comments	This action would reduce the loss of vital potable water from a hurricane event						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	3	1	2	0	11

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-2	Perform assessment of the drainage basins that flow into Estate Williams Delight to identify alternate routing of STW run-off.	Goal 1, Objective 1.1	M	20			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	This assessment and eventual construction of an adequate drainage system would reduce and eliminate localized flooding to this arterial thoroughfare						
Projected Resource	HMGP, PDMC						
S	T	A	P	L	E	E	Score
1	1	1	1	1	4	2	11

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-7	Construct drainage system to along Melvin H. Evans in the area west of Williams Delight Stop Light and Carlton. Extend drainage system to connect with drainage improvements in Williams Delight Community.	Goal 1, Objective 1.1	H	9			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	This action would reduce and eliminate chronic localized flooding along this important roadway						
Projected Resource	HMGP, PDMC						
S	T	A	P	L	E	E	Score
2	1	1	1	1	4	2	12

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-14	Conduct feasibility study and implement and provide emergency power generator units for all pumping stations on St. Croix.	Goal 3, Objective 3.2	M	10			
Hazard	Hurricane						
Lead Agency	WAPA, VIWMA						
Projected Timeframe	Medium Term						
Comments	This would reduce the possibility of loss of the potable water supply and sewage discharge in the event of a major storm						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	0	1	4	0	10

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-4	Conduct a hydrological study of the Christiansted watershed or catchment area to determine technically feasible and cost effective structural solutions to the flooding problem in Christiansted.	Goal 1, Objective 1.1	M	11			
Hazard	Flood						
Lead Agency	VITEMA, DPW, DPNR						
Projected Timeframe	Short Term						
Comments	This study would determine the viability and cost effectiveness of establishing and executing a plan for the long term reduction of the chronic flooding of Christiansted						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-5	Resolve flooding problems and improve storm water drainage infrastructure for "Spring Gut" all the way to Gallows Bay.	Goal 1, Objective 1.1	H	12			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	The construction of adequate drainage infrastructure would reduce and eliminate localized flooding to commercial and residential properties.						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	1	1	6	2	14

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-6	Resolve flooding problems and improve storm water drainage infrastructure for Tide Village by implementing a low water crossing to divert surface run-off into the natural gut.	Goal 1, Objective 1.1	H	13			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments	This action seeks to reduce and eliminate localized flooding in Tide Village. The roadway was constructed without adequate drainage.						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-11	Pursue equipment anchoring program for the Richmond Electrical Generating Plant. Anchor critical equipment in the Plant to mitigate damages caused by earthquake, hurricane-strength winds, tsunami and storm surge.	Goal 3, Objective 3.2	H	14			
Hazard	All Hazards						
Lead Agency	VIWAPA						
Projected Timeframe	Medium Term						
Comments	The anchoring of essential equipment would reduce damage to electrical generating systems due to a natural disaster event						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	0	11

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-16	Improve Various Water Storage Tanks throughout the island. Install flexible connectors at multiple water storage tanks to permit pipe flexibility during earthquake events and ensure rapid recovery and normal service.	Goal 3, Objective 3.2	M	15			
Hazard	Earthquake						
Lead Agency	WAPA						
Projected Timeframe	Long Term						
Comments	This action would reduce and eliminate the loss of vital potable water in the event of a natural hazard event						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	0	10

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-1	Pursue Christiansted Gut USACE Section 205 Project. Preliminary feasibility phase in process to determine whether technically feasible and cost effective solutions exist to reduce flood damages in residential and business areas adjacent to King Cross Street. The Corps will prepare a Detailed Project Report.	Goal 1, Objective 1.1	M	16			
Hazard	Flood						
Lead Agency	VITEMA						
Projected Timeframe	Short Term						
Comments	This study would create a solution for the reduction and elimination of structural and infrastructure loss due to flooding. This project has the potential to identify repetitive or severe repetitive loss properties that may be eligible for SRL funding						
Projected Resource	PDMC, HMGP, SRL						
S	T	A	P	L	E	E	Score
2	1	1	1	1	4	2	12

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-8	Construct a retention pond at the property line of White Bay, and the National Park Service reserve within the localized depression.	Goal 1, Objective 1.1	H	17			
Hazard	Flood						
Lead Agency	DPW, NPS						
Projected Timeframe	Medium Term						
Comments	The construction of a retention pond would reduce and eliminate localized flooding to residences in White Bay. Environment Assessment may be required by National Park Service.						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-12	Construct drainage improvements at the Ricardo Richards Elementary School at Estate Barren Spot near Melvin H. Evans Highway (Route 66).	Goal 3, Objective 3.2	H	18			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Short term						
Comments	This action would reduce and eliminate localized flooding and at this critical facility and related property loss						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	0	11

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-13	Improve Water Distribution Pump Stations at Concordia and Adventure.	Goal 3, Objective 3.2	M	19			
Hazard	All Hazards						
Lead Agency	WAPA						
Projected Timeframe	Short Term						
Comments	Improve distribution of potable water and make them resistant to damage from natural hazards						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	2	1	2	0	10

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-9	Conduct a hydrological study of the St. Croix watersheds with particular attention given to the La Grange, Prosperity, Bethlehem and Salt River watershed basins. Attention should focus on upgrading inadequate drainage systems focused on reducing the impact of flooding	Goal 1, Objective 1.1	M	6			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Med Term						
Comments	Phasing required; should prioritize basins based upon flood risk and potential flood damages						
Projected Resource	USACE, NOAA						
S	T	A	P	L	E	E	Score
2	1	1	3	1	0	0	8

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-10	Resolve flooding problems and improve storm water drainage infrastructure in the "Grove at La Reine".	Goal 1, Objective 1.1	H	5			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Mid Term						
Comments	Emphasis on reducing potential flood damages to private properties						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	3	3	1	0	-1	10

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-17	Install storm shutters at the American Red Cross	Goal 3, Objective 3.2	M	1			
Hazard	Hurricane						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments	Red Cross is considered a critical facility, given their mission post-disaster						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	3	3	1	4	0	15

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-18	Install storm shutters Emile Henderson, Sr. Fire Station	Goal 3, Objective 3.1	H	2			
Hazard	Hurricane						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments	Fire stations are key critical facilities						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	3	3	1	4	0	15

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-19	Install Roll-Up Doors at the Rencelier I. Gibbs Fire Station	Goal 3, Objective 3.1	H	3			
Hazard	Hurricane						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments	Fire stations are key critical facilities						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
3	1	3	3	1	4	0	15

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-20	Implement and improve storm water drainage infrastructure to relieve flooding at the Alfredo Andrews School and adjacent low-lying areas.	Goal 1, Objective 1.1	H	4			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Mid Term						
Comments	Localized flooding problem						
Projected Resource	PDMC, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	2	13

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

ST. JOHN PRIORITIZED MITIGATION ACTIONS

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-7	Provide an alternate power generation substation for Coral Bay to ensure that there is power source or all public services and critical facilities on the east end of the island.	Goal 3, Objective 3.2	H	1			
Hazard	All Hazards						
Lead Agency	WAPA						
Projected Timeframe	Medium Term						
Comments	This action would provide critical emergency power supply to eastern end of island that may be isolated during a hazard event.						
Projected Resources	HMGP, PDMC						
S	T	A	P	L	E	E	Score
2	1	1	1	2	6	2	15

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-5	Increase fuel capacity of the Myra Keating Health Clinic Emergency power generator unit.	Goal 3, Objective 3.2	H	2			
Hazard	All Hazards						
Lead Agency	WAPA, DH						
Projected Timeframe	Medium Term						
Comments	Ensure a more constant and longer lasting source of power at only health facility on the island						
Projected Resource	PDMC						
S	T	A	P	L	E	E	Score
2	1	1	3	0	4	0	11

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-1	Construct drainage improvements to eliminate localized flooding at the lower end of "Carolina Gut" at Little Plantation (Across from Dominos Gas Station) where natural storm flows in the catchment area have been altered by construction and improper siting of structures.	Goal 1, Objective 1.1	M	3			
Hazard	Flood						
Lead Agency	DPNR, DPW						
Projected Timeframe	Short Term						
Comments	The construction of this drainage system would alleviate localized flooding to reduce repetitive losses to residential and commercial properties that resulted from incorrect siting						
Projected Resource	PDMC, FMA, USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	1	1	1	4	2	13

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-2	Construct drainage improvements to eliminate localized flooding at Pond Mouth at intersection of Rt. 102 and Rt. 105	Goal 1, Objective 1.1	H	4			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments	Alleviate localized flooding due to inappropriate infrastructure constructed during port expansion at Pond Mouth exacerbating flooding problems.						
Projected Resources	HMGP, PDMC, FMA, USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	1	2	1	4	-1	11

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ- 4	Pursue a DPW mitigation project to eliminate slope failures along Centerline Road that periodically closes the road during major storm events.	Goal 3, Objective 3.2	H	5			
Hazard	Flood, Landslide and Hurricane						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	To minimize the possibility of road closure. The assessment will provide DPW with technically feasible and cost effective options and facilitate emergency access to Coral Bay						
Projected Resources	HMGP, PDMC, USVI USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	1	2	1	4	2	14

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-9	Construct underground feeders from the St. John substation to various termination points within Cruz Bay to mitigate damages from hurricane winds and ensure rapid recovery and return to normal service.	Goal 3, Objective 3.2	H	6			
Hazard	Hurricane						
Lead Agency	WAPA, VITEMA						
Projected Timeframe	Medium Term						
Comments	This hardening of the electrical distribution system would provide for the timely restoration of power						
Projected Resources	HMGP, PDMC						
S	T	A	P	L	E	E	Score
2	1	1	2	0	6	2	14

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-7	Improve drainage infrastructure (Box Culverts) at WAPA building and treatment plant, while addressing potential secondary impacts to wetlands.	Goal 3, Objective 3.2	H	7			
Hazard	Flood						
Lead Agency	DPW, VIWAPA						
Projected Timeframe	Medium Term						
Comments	This action would reduce potential localized flooding						
Projected Resources	HMGP, PDMC, USVI Operating Budget						
S	T	A	P	L	E	E	Score
2	1	1	3	1	4	2	14

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-3	Construct drainage improvements to eliminate localized flooding along Route 20 southbound in Coral Bay (Estate Carolina).	Goal 3, Objective 3.2	H	8			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	The construction of this drainage improvement would reduce localized flooding and damage to residential and commercial property and provide emergency access						
Projected Resource	HMGP, PDMC, FMA , USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	1	1	0	4	-1	9

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-8	Coordinate with the National Park Service for the construction of appropriate drainage system improvements to eliminate localized flooding along Route Rt. 20 in Maho Bay.	Goal 3, Objective 3.2	H	9			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	This action would reduce localized flooding along central Road and assure emergency access						
Projected Resource	HMGP, PDMC, FMA						
S	T	A	P	L	E	E	Score
3	1	1	1	1	4	2	13

APPENDIX I TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

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