

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Appendix I 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: PROGRAMMATIC ACTIONS

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
USVI-1	VITEMA collaborates with DPW to prioritize annual budget and action plans to remove built up sediment, debris and maintain natural guts, roadside ditches, drainage channels and storm drains in areas that are designated in this Plan as Repetitive Loss Strategy (RLS) designated areas.	Goal 1, Objective 1.1	H	1			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Annual activity						
Comments	VITEMA meets annually with DPW to assist in prioritizing work activities to maintain natural guts						
Projected resources	USVI line item						
S	T	A	P	L	E	E	Score
3	1	3	2	1	4	2	16

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
USVI-2	Seek FMA funding for a planning study to map of severe repetitive loss and repetitive loss properties , conduct limited fieldwork, and evaluate hazard mitigation measures that would cost-effectively address clustered repetitive loss properties.	Goal 1, Objective 1.1	H	2			
Hazard	Flood						
Lead Agency	VITEMA						
Projected Timeframe	Medium Term						
Comments	This planning and evaluation study involves mapping repetitive losses, determining clusters of repetitive losses and evaluating a range of alternatives to reduce the number of repetitive losses on all three islands.						
Projected resources	FMA						
S	T	A	P	L	E	E	Score
3	1	3	3	1	4	0	15

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
USVI -3	Strengthen partnerships with the Office of the Governor and media to disseminate information to the general public on hazard mitigation programs and importance of reducing number of USVI repetitive loss properties .	Goal 1, Objective1.2	M	9			
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, PDM						
S	T	A	P	L	E	E	Score
3	1	1	2	1	2	2	12

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
USVI-4	Conduct watershed planning study based on a hydrological and hydraulic (H&H) model that would provide the quantitative basis for assessing flood mitigation measures on basin and sub-basin level. The H&H modeling can be used to determine best management solutions for RLS designated areas and to build resilience in communities and reduce economic losses. This phased project would begin with St. Croix.	Goal 1, Objective 1.1	H	3			
Hazard	Flood						
Lead Agency	VITEMA						
Projected Timeframe	Three year phased project; one year for each island						
Comments	Having a flexible hydrologic model and using a standardized set of basins and sub-basins will provide a consistent baseline of hydrology for all three islands and can then be used to evaluate mitigation actions and future development proposals in a systematic and uniform fashion over time.						
Projected resources	FMA						
S	T	A	P	L	E	E	Score
2	1	2	2	1	4	0	12

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
USVI-5	VITEMA will establish relationships in the steady-state (pre-disaster) timeframe with US HUD and US DOC and other representatives of primary Federal agency partners of NDRF Recovery Support Functions that could facilitate recovery with technical assistance and potential funding in future post-disaster conditions.	Goal 4, Objective 4.2	L	4			
Hazard	All Hazards						
Lead Agency	VITEMA						
Projected Timeframe	Short Term						
Comments	The implementation of the National Disaster Recovery Plan (NDRP) establishes clear roles for primary and support Federal agencies in disaster recovery. US HUD and US DOC will play a greater role in short and long-term recovery in future Presidentially-declared disasters. VITEMA should establish roles with key agency representations during the steady-state time, in order to reach out more effectively to those agencies in post-disaster scenarios.						
Projected resources	USWI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	3	3	1	6	0	17

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 (one year) to develop database then annual updates going forward						
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, PDM						
S	T	A	P	L	E	E	Score
2	1	1	1	1	2	2	10

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
US Virgin Islands-7	Define and implement arrangements for the collection of data on Landslides, Wildfire, and Drought 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 for defining tracking methodology and researching past events, then annual updates going forward						
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, especially when considering climate change variability. This 2014 mitigation action combines several actions first introduced in the 2011 Plan Update.						
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			
USVI-8	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 4.3	M	10			
Hazard	All Hazards						
Lead Agency	VITEMA						
Projected Timeframe	Medium Term to develop database and then annual updates going forward						
Comments	This action will help VITEMA to track mitigation projects over time and assist in demonstrating improvement in management of FMEA grants						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
2	1	2	2	1	4	0	12

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
USVI-9	Update the multi-hazard risk assessment to incorporate climate change models into the hazard and vulnerability analysis.	Goal 3, Objective 3.1	L	8			
Hazard	Landslide, flood, coastal flooding, drought, wildfire, hurricane						
Lead Agency	VITEMA						
Projected Timeframe	Medium Term						
Comments	This project will utilize regional climate change models in refining the hazard identification and risk assessment, so that climate change variability can be better incorporated into the next update of the hazard mitigation strategy.						
Projected resources	PDM, HMGP						
S	T	A	P	L	E	E	Score
3	1	2	3	1	4	2	16

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
USVI-10	Develop or update Territorial Debris Management Plan , including identification of potential satellite locations for collecting and segregating building and woody debris, white goods, and hazardous materials.	Goal 4, Objective 4.1	L	7			
Hazard	All Hazards						
Lead Agency	VITEMA						
Projected Timeframe	Medium Term						
Comments							
Projected resources	PDM, HMGP						
S	T	A	P	L	E	E	Score
3	1	3	2	1	2	2	14

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ST. THOMAS PRIORITIZED MITIGATION ACTIONS

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-1	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	PDM, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	3	1	6	-1	14

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-2	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	PDM, 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-3	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	Medium Term						
Comments	Resolving this localized flooding problem would minimize future flood damages to private property						
Projected Resource	PDM, 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-4	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, PDM, FMA						
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-5	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	PDM, HMGP, FMA						
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-6	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, PDM						
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-7	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	PDM, HMGP, FMA						
S	T	A	P	L	E	E	Score
3	1	1	2	1	6	0	14

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-8	Expand and reinforce communication infrastructure that is being implemented by BIT to mitigate damages from hurricanes to ensure rapid recovery and return to normal service.	Goal 3, Objective 3.1	H	13			
Hazard	All Hazards, but primarily hurricane-strength winds						
Lead Agency	VITEMA						
Projected Timeframe	Medium Term						
Comments	This action would require VITEMA to encourage BIT to undertake hazard mitigation measures that would benefit all residents of the islands.						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	3	2	1	2	0	12

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-9	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	PDM, HMGP, USVI line item						
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-10	Conduct hydrologic study of the Smith Bay basin and 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 to resolve localized flooding problems that periodically close roads, create traffic hazards, prevent emergency vehicle and public access, and cause damage to adjacent businesses and road pavement.	Goal 3, Objective 3.2	H	3			
Hazard	Flood						
Lead Agency	VITEMA						
Projected Timeframe	Medium Term						
Comments	Flooding along key roads in the Smith Bay basin impede emergency and residential traffic. A hydraulic analysis in the basin is needed to determine the best approaches to resolve this problem. A long-term solution to this problem would also have significant benefits to coastal and off-shore marine resources in Smith Bay.						
Projected resources	FMA, PDM, and HMGP						
S	T	A	P	L	E	E	Score
3	1	3	3	1	2	2	15

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-11	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, PDM						
S	T	A	P	L	E	E	Score
2	1	1	2	1	6	2	15

Action	Description	Goal/Obj ective	Potential for Loss Reduction	Priority			
STT-12	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	PDM, HMGP						
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-13	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	M	21			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	The construction of effective drainage would reduce local flooding and consequent property damage including critical facilities.						
Projected Resource	PDM, HMGP						
S	T	A	P	L	E	E	Score

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-14	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	DPW Operating Budget, PDM, and HMGP						
S	T	A	P	L	E	E	Score
3	1	1	2	1	4	2	14

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-15	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, PDM, and FMA						
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-16	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, in order to resolve flooding, traffic access and business interruption.	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, and 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-17	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						
Projected Timeframe	5 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

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-18	Water Island Ferry Dock at "Philips Landing" experiences periodic flooding in the main turn around area. Periodic flooding caused by inadequate drainage at this facility impedes ferry traffic and emergency vehicles	Goal 3, Objective 3.2	M	8			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Critical Facility						
Projected resources	PDM, 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-19	Honeymoon Beach at Druif Bay, western end of Water Island; flooding caused from inadequate drainage blocks vehicular passage and covers road with as much as 3 feet on the beach road and then takes as much as 3 weeks to drain. Economic impacts by blocking access to two commercial establishments and public health issue from mosquito breeding.	Goal 1, Objective 1.1	H	10			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Public health issue and no action would adversely affect tourism and local businesses						
Projected resources	PDM, HMGP						
S	T	A	P	L	E	E	Score

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-20	Pearl and Larsen School structural retrofit of roof	Goal 1, Objective 1.1	H	2			
Hazard	Hurricane						
Lead Agency	Department of Education						
Projected Timeframe	Medium Term						
Comments							
Projected resources	HMGP, PDM						
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-21	Evelyn Williams School hurricane-strength wind mitigation retrofit of structural roof system and roof replacement.	Goal 1, Objective 1.1	H	6			
Hazard	Hurricane						
Lead Agency	Department of Education						
Projected Timeframe	Medium Term						
Comments							
Projected resources	HMGP, PDM						
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-22	Resolve flooding problems at Abattoir Estate Nadir (race track) due to inadequate drainage.	Goal 1, Objective 1.1	M	23			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium						
Comments							
Projected resources	PDM, HMGP, DPW Operating Budget						
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-23	Address inadequate drainage at Tutu Fire Station	Goal 1, Objective 1.1	M	12			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments	This mitigation action could be resolved by straight forward drainage improvements at this critical facility						
Projected resources	DPW Operating Budget						
S	T	A	P	L	E	E	Score
3	1	3	3	1	2	-1	12

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-24	Structural retrofit of following critical facilities used for sheltering (Lockhart School, Bertha Bochulte Middle School, and, Human Services Head Start building).	Goal 3, Objective 3.2	H	4			
Hazard	Hurricane						
Lead Agency	Department of Education						
Projected Timeframe	Medium Term						
Comments	Critical facility used for sheltering						
Projected resources	HMGP, PDM						
S	T	A	P	L	E	E	Score
3	1	3	3	1	6	0	17

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-25	Retrofit of electrical system at Blue Water Bible College to enable back-up power for all 3 main buildings from existing generator.	Goal 1, Objective 1.1	L	11			
Hazard	All Hazards, but primarily hurricane-strength winds						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Not a generator mitigation action, in that the generator is already in place, only needs modification to the electrical system to provide emergency power to all 3 main buildings at this educational non-profit facility.						
Projected resources	HMGP, Public Assistance Section 406						
S	T	A	P	L	E	E	Score
2	1	3	1	1	2	0	10

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ST. CROIX PRIORITIZED MITIGATION ACTIONS

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STT-1	Resolve flooding problems and improve storm water drainage infrastructure in the "Grove at La Reine".	Goal 1, Objective 1.1	H	6			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Emphasis on reducing potential flood damages to private properties						
Projected Resource	PDM, 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-2	Conduct a hydrological study of the St. Croix watersheds with particular attention given to the La Grange, Prosperity, Bethlehem and Salt River basins. Attention should focus on upgrading inadequate drainage systems to reduce the impact of flooding (see USVI-4 Mitigation Action).	Goal 1, Objective 1.1	M	7			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Phasing required; should prioritize basins based upon flood risk and potential flood damages						
Projected Resource	HMGP, PDM, USACE						
S	T	A	P	L	E	E	Score
3	1	3	3	1	4	0	15

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		Description	Goal/Objective	Potential for Loss Reduction	Priority		
STX-3		Perform assessment of flooding problems within La Grande Princess Estate. Approximately 50 of 225 NFIP-insured losses occur in La Grande Princess. (see USVI-2 Mitigation Action).	Goal 1, Objective 1.1	H	2		
Hazard		Flood					
Lead Agency		DPW, DPNR, VITEMA					
Projected Timeframe		Long Term					
Comments		This action seeks to reduce severe repetitive property losses.					
Projected Resource		PDM, HMGP, FMA					
S	T	A	P	L	E	E	Score
3	1	1	3	1	6	2	17

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-4	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	10			
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, PDM					
S	T	A	P	L	E	E	Score
2	1	1	1	1	4	2	12

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Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-5	Conduct a hydrological study of the Christiansted watershed or catchment area with particular attention given to the sub-watersheds of Spring Gut and Water Gut to determine technically feasible and cost effective structural solutions to address the flooding problem in Christiansted	Goal 1, Objective 1.1	M	12			
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 in Christiansted						
Projected Resource	PDM, HMGP, and USACE						
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-6	Resolve flooding problems and improve storm water drainage infrastructure for "Spring Gut" all the way to Gallows Bay.	Goal 1, Objective 1.1	H	13			
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	PDM, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	1	1	6	2	14

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-7	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	14			
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	PDM, 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-8	Pursue Christiansted Gut USACE Section 205 Project. Preliminary feasibility phase currently underway by the Corps to determine whether technically feasible and cost effective solutions exist to reduce flood damages in residential and business areas adjacent to King Cross St.	Goal 1, Objective 1.1	M	17			
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.						
Projected Resource	PDM, HMGP, and USACE						
S	T	A	P	L	E	E	Score
2	1	1	1	1	4	2	12

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-9	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	18			
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	PDM, HMGP, NPS,						
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-10	Perform assessment of adjacent drainage basins that flow into Estate Williams Delight to identify alternate routing of surface runoff. Evaluate creation of stormwater detention pond below Blue Mountain.	Goal 1, Objective 1.1	H	21			
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.						
Projected Resource	HMGP, PDM						
S	T	A	P	L	E	E	Score
1	1	1	1	1	4	2	11

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-11	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	5			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Localized flooding problem						
Projected Resource	PDM, 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 3.1	H	19			
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	PDM, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	0	11

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-13	Improve Recovery Hill Water Storage Tanks. Install wind girders to reinforce against hurricane-strength winds.	Goal 3, Objective 3.2	M	9			
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	PDM, 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-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	11			
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	PDM, HMGP						
S	T	A	P	L	E	E	Score
3	1	1	0	1	4	0	10

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-15	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	15			
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	PDM, 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			
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	16			
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	PDM, HMGP						
S	T	A	P	L	E	E	Score
2	1	1	2	1	4	0	10

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-17	Lew Muckle School shutter project	Goal 1, Objective 1.1	H	23			
Hazard	Hurricane						
Lead Agency	Department of Education						
Projected Timeframe	Medium Term						
Comments							
Projected resources	HMGP, PDM						
S	T	A	P	L	E	E	Score
3	1	3	3	1	2	0	13

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-18	The 30" Coastal Interceptor transports sewage from the La Grande Princess area to the LBJ Pump Station in Christiansted. Shoreline erosion from coastal storms has left the interceptor submerged in the sea approximately 50' from the shore. The mitigation action would reroute the pipeline inland, replacing approx. 1900' of pipe, construct new lift station and associated improvements.	Goal 3, Objective 3.2	H	4			
Hazard	Coastal Flooding and Storm Surge						
Lead Agency	WMA						
Projected Timeframe	Medium Term						
Comments	This is a very important mitigation action as not taking action could led to failure of the Coastal Interceptor, a critical infrastructure for moving sewage to the waste water treatment plant. It would not only pose a public health and social issues due to the failure of the system but would have significant environmental impacts to marine resources. This issue has been caused by natural hazards operating over a number of years, could lead to failure from a future coastal storm or hurricane, and should receive serious attention by Territorial and Federal funding agencies. It should be addressed as soon as possible, subject to available funding.						
Projected resources	EPA, HMGP, PDM, HUD, DOC, USDA RDA						
S	T	A	P	L	E	E	Score
3	1	3	3	1	6	2	19

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-19	FEMA Community Rating System (CRS). Initiate a planning project to have STX become a CRS Community by developing a strategy and action plan for improving the flood management program on the Island. The planning study would include an outreach strategy and series of community meetings on the NFIP Program, first living floor and base flood elevation determinations, LOMARS, and other flood insurance questions and concerns.	Goal 4, Objective 4.1	M	3			
Hazard	Flood						
Lead Agency	VITEMA						
Projected Timeframe	Long Term						
Comments	FEMA representatives have indicated that St. Croix would be considered as a community within the USVI and therefore could pursue designation as a community participating in the CRS initiative						
Projected resources	USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	2	3	1	2	0	12

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-20	LBJ Pump Station flood and storm surge protection. The pump station is located 215' south of an existing gut and 125' from the shoreline. Mitigation action involves improving conveyance from existing gut, regarding and rising existing roadway to site, fabrication of flood prevention brackets to provide protection from floodwaters and storm surge.	Goal 3, Objective 3.2	H	7			
Hazard	Coastal Flooding and Storm Surge						
Lead Agency	WMA						
Projected Timeframe	Medium Term						
Comments	Increased probability of damage to this facility by flash flooding from the nearby gut, coastal flooding and storm surge argue that this proposed mitigation action deserves attention. It also has environmental impacts if not addressed.						
Projected resources	HMGP, FMA, EPA						
S	T	A	P	L	E	E	Score
3	1	3	3	1	2	2	15

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-21	Structural retrofits of Claude Markoe School and St. Croix Educational Complex critical facilities used for sheltering.	Goal 3, Objective 3.2	H	8			
Hazard	Hurricane						
Lead Agency	Department of Education						
Projected Timeframe	Medium Term						
Comments	Critical facilities used for sheltering should receive high priority for funding						
Projected resources	HMGP, PDM						
S	T	A	P	L	E	E	Score
3	1	3	3	1	4	0	15

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STX-22	Structural retrofits of Juan Luis Hospital for enhanced protection from hurricane-strength winds and earthquake hazards.	Goal 3, Objective 3.2	H	22			
Hazard	Hurricane and Earthquake						
Lead Agency	VITEMA						
Projected Timeframe	Long Term						
Comments	Critical Facility						
Projected resources	HMGP, PDM						
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-23	Storm flows from Tropical Storm Otto collapsed a culvert and road crossing of Gut 5 in Enfield Green that connects the east and west sides of the Estate. Mitigation action involves replacing culvert with a larger diameter and implementing drainage improvements on Gut 5.	Goal 3, Objective 3.2	M	20			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Medium Term						
Comments	Challenge for this action is that it is a private road within a development with a homeowners association without the funds to undertake the necessary work to replace the culvert and stream crossing.						
Projected resources	HMGP, PDM, FMA						
S	T	A	P	L	E	E	Score
2	1	3	2	0	0	0	8

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

ST. JOHN PRIORITIZED MITIGATION ACTIONS

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-1	Conduct a hydrological study of Coral Bay watershed to propose technically feasible and cost-effective solutions to flooding problems due to storm drain locations, undersized drainage, and lack of consideration of natural drainage guts.	Goal 1, Objective 1.1	M	2			
Hazard	Flood						
Lead Agency	VITEMA, DPNR						
Projected Timeframe	Medium Term						
Comments	Flooding is a persistent problem in Coral Bay. VITEMA should have direct liaison with Coral Bay Community Council to define specifications for such a project						
Projected Resource	HMGP, PDM, FMA						
S	T	A	P	L	E	E	Score
1	1	1	1	1	4	2	11

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-2	Evaluate and construct drainage improvements to eliminate localized flooding at the lower end of "Carolina Gut" at Little Plantation where natural storm flows in the catchment area have been altered by construction and improper siting of structures.	Goal 1, Objective 1.1	H	6			
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	PDM, 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			
ST-3	Construct drainage improvements to eliminate localized flooding at Pond Mouth at intersection of Rt. 102 and Rt. 105.	Goal 1, Objective 1.1	H	7			
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, PDM, FMA, USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	1	2	1	4	-1	11

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-4	Implementing a slope stabilization program to reduce damage and blockage of roads during wind storm and flooding events. A program establishment of more stable and cut and fill slopes, removal of material that may be subject to landslide and rock fall events, re-vegetation, of disturbed slopes, etc.	Goal 1, Objective 1.1	H	8			
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, PDM, 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-5	Evaluate and construct drainage improvements to eliminate localized flooding along Route 20 southbound in Coral Bay (Estate Carolina).	Goal 1, Objective 1.1	H	11			
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, PDM, FMA , USVI Operating Budget						
S	T	A	P	L	E	E	Score
3	1	1	1	0	4	-1	9

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-6	Increase fuel capacity of the Myra Keating Health Clinic Emergency power generator unit.	Goal 3, Objective 3.1	H	5			
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	PDM						
S	T	A	P	L	E	E	Score
2	1	1	3	0	4	0	11

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 adequate power source for all public services and critical facilities on the east end of the Island.	Goal 3, Objective 3.2	H	4			
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, PDM						
S	T	A	P	L	E	E	Score
2	1	1	1	2	6	2	15

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-8	Construct underground feeders from the St. John substation to various termination points within Cruz Bay to mitigate damages to hurricane winds and ensure rapid recovery and return to normal service.	Goal 3, Objective 3.2	H	9			
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, PDM						
S	T	A	P	L	E	E	Score
2	1	1	2	0	6	2	14

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-9	Improve drainage infrastructure (Box Culverts) at WAPA building and treatment plant, while addressing potential secondary impacts to wetlands.	Goal 3, Objective 3.2	H	10			
Hazard	Flood						
Lead Agency	DPW, VIWAPA						
Projected Timeframe	Medium Term						
Comments	This action would reduce potential localized flooding						
Projected Resources	HMGP, PDM, USVI Operating Budget						
S	T	A	P	L	E	E	Score
2	1	1	3	1	4	2	14

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-10	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	12			
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, PDM, FMA						
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-11	Resolve flooding concerns from inadequate drainage at Cruz Bay Fire Station.	Goal 3, Objective 3.2	M	3			
Hazard	Flood						
Lead Agency	DPW						
Projected Timeframe	Short Term						
Comments	For the more frequent storm events, inadequate drainage at the Cruz Bay Fire Station could be addressed by straight forward drainage improvements in the immediate vicinity.						
Projected resources	USVI Operating Budget, PDM, FMA						
S	T	A	P	L	E	E	Score
3	1	3	3	1	2	0	13

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

Action	Description	Goal/Objective	Potential for Loss Reduction	Priority			
STJ-12	Functional replacement and relocation of the Fire Station in Coral Bay due to multiple coastal hazards and structural issues of this critical facility resulting from subsidence.	Goal 3, Objective 3.2	H	1			
Hazard	Coastal Flooding and Storm Surge						
Lead Agency	Fire Service						
Projected Timeframe	Long Term						
Comments	Over the long term there is a clear need to relocate this critical facility away from coastal hazards.						
Projected resources	HMGP, DHS, other potential Federal funding sources						
S	T	A	P	L	E	E	Score
3	1	3	1	1	2	0	11

APPENDIX G TERRITORIAL AND ISLAND SPECIFIC MITIGATION ACTION PLAN

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