



DEPARTMENT OF DISASTER MANAGEMENT

SITUATION REPORT 002

Emergency Operations – Response

Event: Hurricane Irma
Date of Event: September 6, 2017
Issue Date: September 16, 2017
Issue Time: 10:00 pm
Report Number: 002

1.0 THE EVENT

Irma a destructive category 5 Hurricane impacted the Territory on September 6, 2017 with sustained winds of 185 mph causing widespread damage to the road infrastructure, building stock, ports, telecommunications, electrical infrastructure and critical facilities. The Morning Briefing for Hurricane Irma was held with key government and private sector officials on September 4 and the NEOC was then activated following the aforementioned briefing. The State of Emergency declared by Governor Augustus Jaspert on September 7, 2017 remains in effect. A curfew order remains in place for the hours of 6:00 pm to 9:00 am.

An official Irma Relief account has been established by the Government of the British Virgin Islands. All relief funds collected on the Territory's behalf should be deposited to this account - <Accountant General, Hurricane Irma Relief Fund, Ac. No. 2345155492, Swift Code: FCIBVGVG>.

2.0 IMPACT SUMMARY

2.1 Tortola: Three deaths were reported dead on the island of Tortola. There was also widespread damage to homes, businesses, infrastructure, as well as significant damage to marine sector and vessels. The effects of the hurricane led to a number of security concerns given the failure of the prison, and the widespread looting. Currently, those security concerns are diminished owing to the large number of Caribbean and British security forces on the ground and the reinstatement of the prison complex at Balsum Ghut. Island Specifics:

- Notable damage observed, mostly on southern part of the island; almost all the buildings are damaged, some of them are destroyed.
- Terrance B. Lettsome International Airport: runway and tower building are intact; control tower was in-service managing air traffic. Light-weight structure hangars are destroyed.
- Water treatment plant: warehouses are partially destroyed, most of the housing roofs are gone

- Peebles Hospital: some of the roof was damaged.
- Harbours: most of them are severely damaged. Sailing ships are mainly embedded into each other or sunken
- Antennas: several of these collapsed. One antenna was observed NW of Road town
- Roads: most seem to be passable, running vehicles observed
- Sailing hazards: No danger to report, all beaches can be accessed for ship landing

2.2 *Anegada*: No deaths were reported. Anegada has suffered minimum damage. Power has been restored on the grid that feeds the water plant. Generators are available on island and specific personnel have SAT phones to ensure communication however communications to the mainland still remain a challenge. 106 persons were evacuated from Anegada prior to impact. Many were being housed with family and various shelters on Tortola. The boat to Anegada is now operating on its regular schedule and many of the evacuated Anegadians have returned to their homes.

2.3 *Virgin Gorda*: One death was reported. Almost all buildings on the southern part of Virgin Gorda sustained some form of damage. Businesses and homes in North Sound have also been heavily impacted. The high-end tourism properties in this area have also been heavily impacted. Island specifics:

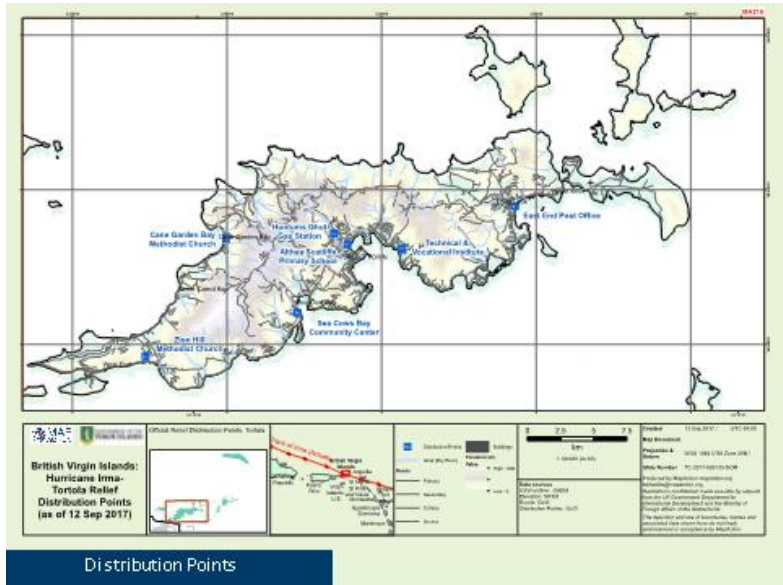
- Airfield is covered with sand
- Debris littering the ground close to Spanish town
- Spanish town marina is partially damaged: terminal seems to be usable, sailing ships are mainly embedded into each other or sunk
- No navigation hazards to report within 10 nautical miles around the island

2.4 *Jost Van Dyke*: No deaths reported. Great Harbour, Little Harbour and White Bay have all suffered severe damage to homes, the resort and the beach. Many homes have been damaged and 80 families were displaced. The emergency shelter was destroyed; as a result there is no official shelter. An alternate emergency shelter is being established at the Church of God of Prophecy JVD but that building also sustained roof damage and must be secured before shelterees are accepted. At present, displaced persons are staying with neighbors, friends and relatives. Consideration is being given to using the Fire Station as a shelter option.

2.5 *Other Islands*: Peter Island, Mosquito and Necker Island, Guana, Camanoes, Scrub Island all experienced varying level of damage.

3.0 AID DISTRIBUTION

Whilst there has been a number of pledges, the quantity of relief supplies being received into the Territory is significantly less than the pledges. A distribution framework has been established. Aid from the 2 main ports (Airport and Port Purcell) will be transported to a central staging area for distribution to nine distribution points within each of the districts. Arrangements have been made which includes the District Reps for re-distribution to the established distribution points



Fifty-six tons of Aid was distributed by the NEOC, (assisted by CDEMA) to the communities in West End, Sea Cows Bay, and East End. A further five tons of aid items which, included clothing, toiletries, water, food, baby items and feminine hygiene products was distributed to the Jost Van Dyke community.

Relief supplies were distributed to East End, Cane Garden Bay and Huntums Ghut on September 13th 2017. Security is being provided during the distribution periods.

The lack of electricity at the Ports limits the capacity to record the incoming aid real-time. An offsite procedure using the Logistics Support System has been established to ensure transparency within the distribution network. A generator was requested to support the real time entry of the relief supplies into the LSS.

The availability of transportation was flagged as a major issue due to availability and the level of traffic on the roadways.

4.0 CURRENT SITUATION NEOC

4.1 Health Services and Facilities

The official count of hurricane related deaths is four. This has been confirmed and verified by the Health Services Authority. The number of injured persons is still being computed. A full situation report is being compiled by the BVI Health Services Authority.

The PAHO Deployment Team was tasked with examining the Hospital, local clinics and the Adina Donovan Home for the Elderly as well as the general public health elements.

The Adina Donovan Home is functional, however the upper floor is compromised and therefore the roof has been tarped. The NEOC technical team is working to provide power directly from the hospital.

The Rainbow Children's Home is functional and has been retrofitted with a generator. The water supply was also checked and is usable.

4.1.1 Peebles Hospital

The Hospital is functional and they are currently compiling their human resources and Medical Infrastructural needs.

Medical supplies were received on September 9, 2017 which will support the surge need at the Hospital. One thousand vials of Tetanus medication has been provided to the Peebles hospital and will be dispatched to clinics as needed. Similar volumes of diabetic medication have been received. Other non-medicine supplies were also received. PAHO has also shipped a number of supplies and medications, which should arrive in the Territory shortly.

4.1.2 Clinics

Supplies were provided to all clinics on the Sister Islands of Jost Van Dyke, Virgin Gorda and Anegada.

- Anegada Health Clinic appeared to be functional and two nurses were dispatched with medication.
- Jost Van Dyke – the roof on the second floor of the clinic sustained significant damage and is almost completely destroyed. The ground floor may be useable, but it is recommended that it be assessed for structural integrity. There is a possibility that the water tank is contaminated. The medicine being salvaged and specific medicinal request is being addressed by the hospital. PAHO has reported that it appears that The JVD Residents have suffered psychological trauma.
- Virgin Gorda Clinics
 - North Sound Clinic – has lost the roof and has damage to the windows. There are some concerns about limited stock of diabetic and hypertension medication. A large supply has been sent to the Peebles hospital, which will be distributed to clinics. The clinic is currently on standby power generator. There are also some issues with water, but they are currently receiving water from Necker Island on a daily basis.
 - Iris O'Neal Clinic – has sustained minor damage to roof. The main issue is the generator since diesel supply running low. The diesel plant is up and the clinic uses 3000 gal of water per day.

- Tortola – the assessment of the condition of the clinics on Tortola is ongoing. A decision has been made to operationalise East End clinic and a dedicated power supply (transfer of generator from Look Look Clinic) has been put in place.

4.2 Housing

Preliminary assessment has indicated that 60%-80% of the buildings throughout the Territory were damaged or destroyed with a large percentage of the building roofs being severely compromised. Detailed household assessments across districts are presently being conducted.

4.2.1 Consideration for Temporary Housing

Work is ongoing to identify and assess larger facilities, which can serve as temporary housing accommodations for the displaced population.

- **Save the Seed in Duffs Bottom** - Save the Seed is a church owned recreational multi-floor complex; one floor has a bowling alley, the second a kindergarten school, the third is a gym and dance studio. The building sustained some damage to its top floor. If considered as a shelter it is recommended that the bowling alley floor at ground level would be ideally placed to accommodate the British army.
 - **Key Qualities/Issues:**
 - Large cistern,
 - Presence of diesel generators
- **Multi-purpose Sports Complex in Road Town** – The Complex is a government owned recreation facility. The facility is missing some roofing at one end of the structure. There is water in a number of offices. This structure has been recommended for temporary housing in the interim. The Rotary Club has been charged with prepping and managing the shelter
 - **Key Qualities/Issues:**
 - A generator was present but inoperable and have since been replaced.
 - There is no water (MCW and W&SD has pledge to fill cisterns at site). A water source from the Cultural Centre was contemplated, but may be contaminated.
 - Usable floor space is 98ftX50ft
- **Prospect Reef Hotel** – A Government owned hotel. There are four complexes plus a reception centre. Units can hold approximately 20 families per unit up to a maximum of 300 people. Significant retrofitting works may be needed to sure up the facilities on the compound.
 - **Key Qualities /Issues**
 - Two of the complexes have heavy roof damage
 - The infrastructure includes electricity and plumbing

4.4 *Shelters/temporary accommodation*

A listing of 11 shelters open throughout the Territory, 279 persons are presently being accommodated emergency shelters. Specific shelter locations which have been closed include the following:

- East End/Long Look Community Center
- St. Georges Anglican Church, Road Town
- Jost Van Dyke Primary School
- New Testament Church of God
- Methodist Church East End

4.5 *Tourism Industry*

At the onset of the storm there were over 250 visitors on Island. As of 15th September 2017, according to Tourist Board reports, there was an estimated 5 visitors on Island.

Each property is demonstrating challenges with keeping track of guests in-house, as guests have been leaving the Territory as opportunities arise. Private ferries and charter flights have been facilitating the departure of guests. In addition, two cruise ships, Royal Caribbean and Norwegian Cruise Line also facilitated in transporting American visitors to Puerto Rico or Miami.

A number of the hotel properties have been closed and not operational. Other tourism establishments such as restaurants throughout the Territory were destroyed. There are very few properties operating.

4.6 *Airport Operations:*

The airport runway remains intact on Beef Island as well as on Anegada and Virgin Gorda. Arrangements were made with Sol Petroleum to provide jet fuel to the airport and any other emergency services. Both fire engines at the Terrance B. Lettsome International Airport are functional.

The BVI Airports Authority has allowed access to traffic bringing emergency and relief purposes up to 5:00 pm daily.

In addition, several flights leave daily with evacuees since the passage of the Hurricane. A total of 1,597 passengers left the Territory through the Airport as of September 15th.

The British Military has provided added security at the Airport at Beef Island since Friday 9th September.

4.7 *Sea Ports Operations*

The Port Purcell seaport is available to accept vessels. Similarly with airport, all shipments are coordinated through the NEOC, in particular manifests are required to be sent to the NEOC. The administration at Port Purcell is limited due to destruction of their admin complex, and lack of power. However, customs is fully functional at the Port.

The BVI Ports Authority's main warehouse, West End seaport and Road Town seaport terminals have sustained damage. The Royal Virgin Islands Police Force is currently providing security support for the Port warehouse and terminals.

The UK Hydrographic Office surveyed some ports and have declared them fit for boat traffic: the Ferry Terminal in Road Harbour, Cruise Ship Pier, Port Purcell, Fishing Complex dock, Anegada and Virgin Gorda.

A quick assessment of Anegada Ferry Terminal and Little Dix Ferry Jetty on Virgin Gorda; both appeared workable with clear water. Vessels that have traditionally used these berths should be still free to do so. Interisland ferry operations resume between, Tortola Virgin Gorda; Anegada and Jost Van Dyke.

4.8 *Virgin Islands fire and rescue services:*

The Road Town and East End fire Stations were damaged, but the main appliances were secured. Local search and rescue teams were dispatched as needed and rescues were made. As communications continues to be a challenge, the Fire Service performed district drives to provide information to persons in inaccessible areas.

The Road Town Fire Station (headquarters) is operational however this is through significant tolerance and guile of the workforce. The building is a reinforced concrete structure which has sustained some significant aesthetic damage however structurally appears to be working. The building has two floors comprising of administration and offices upstairs and storage and living quarters downstairs. Significant water damage has limited the ability to energise the building and this should be assessed in the medium term.

Building functionality:

- **Power.** The station has a standby generator which is being used to provide power to the functional areas. This is only running circuits which have not been exposed to significant water damage and thus can be deemed as critical power only.
- **Administration.** The administration area (upstairs) has had significant damage rendering it not functional. Debris and missing roof means the upstairs of the station uninhabitable.
- **Offices.** The offices downstairs are being used for other functions such as accommodation and storage. Rooms appear fine but the leaking roof means lighting circuits cannot be energised.

- **Living Quarters.** A number of people are living in the lower floor of the fire station. The room is only 50% inhabitable due to continual leaking through a cracked ceiling. Lighting circuit is not energised due to water damage.
- **Ops Room.** The ops room is not functional. There are no communications from the emergence exchange.
- **Fuel.** There is a working petrol and diesel pump which is used to fill working vehicles.
- **Communications.** There is a mobile signal at the location
- **Roof.** The roof is 85% damaged or lost; this needs to be repaired to prevent water ingress to lower floors. The majority of the administration and office space is on the top floor and thus deemed unusable until the roof is repaired.
- **Structure.** From initial inspection structurally the building appears to be safe.

4.9 *Security Concerns*

There are a number of security personnel on the ground comprising RVIPF, External Police and Military.

HM Prison - The Prison structure was compromised. Work is ongoing to address the breach in the roof and security fencing.

4.10 *Electricity*

The generation, transmission and distribution infrastructure has been severely damaged. Electricity supply throughout the Territory is solely provided by back up/stand by power generators. Electrical power and water has been restored to Anegada.

Electrical Engineers were dispatched to assess the Pockwood Pond Power Plant and found the black start generator to be compromised and in need of drying out and a further assessment of the underground cables. To date the generator is operational and is feeding the priority areas on Wickham's Cay underground distribution system which powers the hospital, banks, the Multi-purpose Sports Complex, and the Tortola Pier Park. The above ground distribution system across all of the Territory has been mostly destroyed and will take significant effort and time to restore.

4.11 *Water and Sewerage*

Piped water facility is not functional due to the lack of electricity to power the desalination plants. There is limited stock of potable water available at the reservoirs.

RFA Mounts Bay provided limited supply to Virgin Gorda and Jost Van Dyke.

- Water producers to dispatch mobile water distribution plants
- The sewerage system is compromised. Assistance from engineers is being provided.

The US military promised the installation of a 1 megawatts generator at the Sewerage plant and other smaller ones for lift and pump stations to assist in restoring the water distribution chain.

The main offices of the Water and Sewerage and Public Works were rendered non-operational by the hurricane, with its roof, windows, doors and services badly affected. This negatively impacted the content of the offices; added with the results of the high moisture content in the buildings.

4.11.1 Water and Sewerage on Virgin Gorda

HANDSOME BAY – The desalinisation plant is Non-functioning. It is the main water desalinization plant for the island. The structural integrity of the main building is severely compromised and is open to the weather. The Island is getting 3,000 gallons of water daily from Necker Island. Bug Out, a community initiative, is providing vector control for the island.

4.11.2 Water and Sewerage on Jost Van Dyke

There is an issue with JVD water plants as the main storage tanks were destroyed. Potable water is needed.

4.12 Solid Waste/Debris Management

The Incinerator has been damaged. The equipment currently available is not adequate to handle the waste. Alternative waste disposal options have been discussed, including identifying sites for galvanize and debris namely East End festival grounds and Cox Heath.

Two main garbage collection sites were established on Virgin Gorda - one, which deals with household waste, and the other with bulky waste. The military is assisting the police with providing security.

4.13 Public Works and Transportation

Road infrastructure has been severely damaged. Heavy equipment operators have been deployed to all districts. Roadways are cleared to at least single lane from East End to West End.

District 1: roads cleared by community

District 5: roads impassable

District 7: roadways were cleared

District 8: Heavy Equipment operators are clearing by community

Road clearing with public help in Sage Mountain and Sea Cow's Bay

4.14 Communications

The local VHF network suffered a considerable hit from the storm destroying a number of repeaters. A comprehensive communications needs list is attached. HF Communications is available through the BVI Amateurs.

CCT cell signal is now available in Sea Cows Bay, sections of Road Town and Baughers Bay. Digicel has coverage in Road Town and East End. Digicel's fiber optic cables were underground and their teams are working to restore signal. Flow has sporadic coverage throughout the Territory and five cell sites are set up in Road Town, Kingston, East End, Belle Vue and Carrot Bay.

A communications plan with targeted messaging is in place. District Representatives were tasked with identifying runners to get messages in the districts. The NEOC is making use of nearby radio stations to carry messages. Local radio station ZBVI radio is back up and functional and other stations are actively working to restore operations. The Government Information Officers continue to funnel messages through available local, regional and international distribution channels including social media as well as local radio and television stations.

4.14.1 Communications Capability on Virgin Gorda

There is limited communications with the island and the mainland of Tortola therefore the District Representative was given a SAT phone.

4.15 School Assessment

Based on the visual survey across the island, the buildings in question appeared to be constructed from a combination of the following:

- *Roofs: reinforced concrete (RC) flat roofs, traditional timber framed roofs, steel or timber trusses*
- *Walls/superstructure: reinforced/unreinforced blockwork, timber stud partition walls, RC frame, Steel Frame*

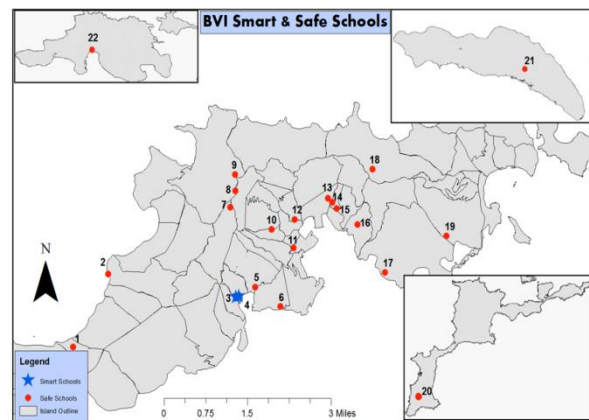


Figure 1: Locational Map of BVI Smart & Safe Schools (Compliments of BVI Disaster Management Mitigation and Planning Programme)

The high winds experienced across the island have had similar effects on the various types of buildings. The observed damage can be categorised under the following:

- water damage from broken windows, doors and damaged roofs
- complete removal of roof or damage to sheathing and/or roof cladding
- removal and/or damage to wall cladding
- complete damage of structure (the minority)
- water damage from storm surge (coastal locations)

It appears that the schools located on the western side of the island sustained the most damage. These were relatively close to the coast - subject to damage from the storm surge, and were in more open terrains with a few surrounding buildings. This would have allowed more direct and sustained gusts to affect these schools.

The schools in the central areas and the eastern side of the island sustained significantly less overall damage compared to the western side of the island. This could be accounted to the congestion of buildings within the urban areas and what appear to be more robust construction methods in these areas. The inability of the storm surge to reach these areas directly correlates with the reduced level of damage in these areas.

The schools with RC flat roofs notably sustained very little damage outside of water damage due to broken windows or doors.

Few of the schools had backup generators which is a requirement to be designated as a primary emergency shelters or main distribution centres.

More robust storm shutters and installation procedures should be considered. There was one particular brand of storm shutter that failed on the buildings. This could be attributed to a mediocre product, substandard installation details provided by the manufacturer or incorrect installation procedures from the local installers.

The more traditional windows installed at BVI Seventh-day Adventist School, Leonora Delville Primary School, Ebenezer Thomas Primary School and Althea Scatliffe Primary School suffered very little to no damage during the intense weather experienced across the island. This was observed with the various types of construction methods for the respective buildings.

It does not appear that many of the schools in good condition are being occupied even though they are easily accessible. This could imply that the communities have already arranged other means of temporary shelter.

4.15.1 Leonora Delville Primary

The structural integrity does appear to be compromised, however, it is not weather tight. The building can be reinstated in the long term but not in the immediate future as the remedial work entails immediately unavailable resources.



- Approximately 20% of the plywood sheathing needs replacing.
- 75% of the roof cladding (zinc sheets) needs reinstating.
- Mass debris needs clearing
- No mobile signal on site
- No Power on site

4.15.2 Isabella Morris Primary School

The structural integrity does appear to be compromised, however, it is not weather tight. The building can be reinstated in the long term but not in the immediate future as the remedial work entails immediately unavailable resources.



- Approximately 10% of the plywood sheathing needs replacing.
- 75% of the roof cladding (zinc sheets) needs reinstating.
- Mass debris needs clearing.
- Storm surge levels in this area assumed to be in excess of 1.8m.
- Low to Medium debris levels around property
- Access road to this area is severely damaged along coastline.
- Current occupants in this area in need of potable water
- No mobile signal on site
- No Power on site

4.15.2 BVI Seventh-day Adventist School

Minor overall damage, the structural integrity does not appear to be compromised outside of the damaged section of roof. It is not weather tight in the isolated section of the building; however, this section can be easily cordoned off allowing the remainder of the building to be easily occupied.

- Southeast corner of roof has suffered major structural damage and needs replacing.
- Very low debris level
- Some rooms currently occupied by individuals seeking shelter
- No mobile signal on site
- No Power on site

4.15.3 Little Lite House Chid Development Centre

The structural integrity has not been compromised, however, it is not weather tight. Not immediately habitable without substantial resources.

- Approximately 50% of the roof is damaged and needs reinstating
- Medium debris level
- No mobile signal on site
- No Power on site

4.15.4 Ebenezer Thomas Primary School

The school compound is comprised of three buildings as defined below; none of which appear to be structurally compromised. This building can be occupied in the short term with minor resources.

- a) Single Storey Structure
 - It is weather tight.
 - No real sign of damage worth mentioning
- b) Two Storey Structure
 - It is not weather tight as approximately 1/3 of the roof has been damaged. Visibility was low, assume cladding and roof sheathing will need replacing.
- c) Single Storey Timber Structure
 - No real sign of damage to worth mentioning
 - Weather tight and can be used

4.15.5 New Life Day Care and Learning Centre

Very little overall damage, the structural integrity does not appeared compromised. The ground floor nursery adjacent to the church can be occupied. Personnel on site are already removing debris and cleaning the rooms.

- Possibly has minor leaks in areas but roof did not appear to be compromised.
- Very low debris level
- Roof of church building has been badly damaged and needs reinstating in centre over altar area.
- No mobile signal on site
- No Power on site
- Water damage to second floor rooms in building adjacent to Nursery
- No confirmed gen set

4.15.5 Althea Scatliffe Primary School

This school comprises of four buildings. The main building has suffered the least damage and can be occupied with minor resources. Block D appears to be unscathed on the outside and is also assumed to be habitable.

a) Block A (Main Building)

- No visible compromising damage to superstructure or roof
- Roof assumed to be weather tight.
- Building is habitable following window repairs or temporary shuttering
- Minor cosmetic damage to external façade.
- No confirmed generator
- No confirmed water storage tank



b) Block B

- Structural integrity has not been compromised
- 10% of rafters need replacing
- 50% of roof sheets need replacing
- All eave boards gone and need replacing to reinstate water tightness



c) Block C (Nursery)

- No major structural damage
- Eastern wall has been affected by wind (excessive deflection). Internal studwork needs to be realigned and secured.
- Minor damages to eastern lean-to roof



d) Block D

- No visible damage to structure
- Assumed to be weather tight
- Immediately habitable

Common notes to all buildings

- i. No power on site
- ii. No mobile signal on site.
- iii. Medium to high debris levels
- iv. 6 confirmed occupants (inclusive of 1 young female)
- v. School Capacity of 500 children
- vi. No generator
- vii. Underground water storage tank has been contaminated
- viii. Power supply (by panel) fairly intact

4.15.6 Venetta's Day care and Pre-School

The structural integrity does not appear to be compromised, however, it is not weather tight. The owner and his family currently occupy it at ground level. The upper level will need unavailable resources to ensure a watertight structure.

- Approximately 75% of the roof cladding needs reinstating
- Extensive leaking through roof sheathing as a result of missing cladding
- No mobile signal on site
- No Power on site
- Confirmed water storage tank with Non-potable water
- Usable Kitchen
- Capacity of 75 children
- 12 confirmed occupants (includes an infant)
- No mobile signal
- No generator

4.15.7 St. George's Primary School

This school comprises four buildings. The more recent constructed buildings, assumed to be Block A and Block D can be habitable with minor resources/repairs. The remaining buildings have sustained roof damage likely incapable of being restored with the current strain of resources on island.

a) Block A (Main Building)

- No compromise to structural integrity
- Building is habitable following window repairs or temporary shuttering
- Minor cosmetic damage to external façade.





b) Block B (Bathroom Block)

- Structural integrity has not been compromised
- Rafters and roof sheathing need replacing (50%)



c) Block C (Admin Building)

- No major structural damage
- 30% of roof needs reinstating
- 40% of roof needs new cladding only

d) Block D (Infant School)

- No visible damage to structure
- Assumed to be weather tight
- Building is habitable following window repairs or temporary shuttering
- Power supply appears to be damaged
- Minor damage to roof, assumed to be water tight
- Building is habitable following window repairs or temporary shuttering

Common notes to all building

- No power on site
- No water on site
- No mobile signal on site.
- Medium to high debris levels
- School Capacity unconfirmed
- Possible small power supply and water supply in out building
- Salvageable 20-Seater bus on site. Minor damage to windows.
- No confirmed occupants

4.14.8 H. Lavity Stoutt Community College

This school comprises of eight buildings. This location is ideal for use as an immediate emergency shelter or food distribution centre. A few buildings need some influx of resources to make them weather tight, however, the majority of the buildings appear to be untouched and are habitable.

a) Block A (Academic Services Building)

- No compromise to structural integrity
- Building is habitable following minor repairs or temporary shuttering to windows
- Concrete flat roof
- Water appears to be water tight (concrete flat roof)



b) Block B (Northern Lecture Rooms)

- Made up of 3No. temporary structures (retrofit trailers)
- Structural integrity has not been compromised
- Rafters and roof sheathing need replacing (50%)
- Wall cladding needs replacing (50%)
- Buildings not habitable



c) Block C (Health Services)

- No apparent structural damage
- Building is habitable with minor repairs or temporary cladding to some doors and windows



d) Block D (UWI Library and adjacent Building)

- No apparent structural damage
- Building is habitable



e) Block D (Book Store)

- No major structural damage
- High damage to roof. Sheathing and cladding to be replaced (75%)
- Building is not weather tight. Most windows damaged and need to be replaced.



f) Block E (Next to Book Store)

- 50% of building reduced to rubble
- Remaining structure appears to be structural sound
- 20% of walls need recladding
- Building can be occupied following installation of temporary shuttering and temporary covering of some roof areas.



g) Block E (Learning Resource Centre)

- No apparent structural damage
- Building is habitable with no signs of internal/external damage
- Building is fully powered by gen set
- Occupied by security/porters



h) Block E (Kitchen)

- No apparent structural damage
- Building is habitable with minor repairs or temporary cladding to some doors and windows.
- LPG gas supply is intact. Kitchen can be used after internal clean up



i) Block E (Main Building)

- No apparent structural damage
- Building is readily occupiable with some repairs or temporary cladding to some doors, windows and roof.
- Suffered water on some floors but can be easily dealt with



Common notes on all buildings

- Mechanical storeroom with generator is intact
- There is a 750kVA generator in operation on site
- No mobile signal on site.
- Medium debris levels
- School Capacity unconfirmed
- No confirmed water supply or storage tanks (assume there are storage tanks somewhere)
- LPG gas supply on site. 1990l tank installed. Spare tank on site (same size) unconfirmed contents for both tanks

4.14.9 Joyce Samuel Primary School

This building appears to be structurally sound however, it has been affected by water damage in most rooms due to broken windows/doors and minor roof damage. It can be occupied with installation of temporary shuttering and general cleanup of buildings and property.

a) Gymnasium

- Superstructure reduced to rubble.
- Basketball court is salvageable

b) Main Building

- No apparent structural damage
- Building is readily occupiable with minor repairs and temporary cladding to some doors and windows.
- Minor water damage (some rooms still water logged, both levels)
- Minor damage to roof of admin section. Temporary shuttering to windows/doors and roof required to be operational

Common notes to all buildings

- Confirmed water storage tank (approx. dia. 13'x12')
- No power on site
- No mobile signal on site.
- Medium debris levels
- School Capacity unconfirmed
- No confirmed water supply



4.14.10 New Testament Church of God Learning Centre

The structural integrity has not been compromised. The building can be occupied with minimal resources.

- Medium debris levels
- Minor damage to eastern section of roof. Temporary shuttering can be employed.
- No mobile signal on site
- Confirmed operational gen set (75 kVA)
- Confirmed water storage tank under Kitchen, capacity unknown
- Usable Kitchen with intact gas supply
- Capacity for approx. 30 people
- No confirmed occupants
- No mobile signal



4.14.11 Alexandrina Maduro Primary School

The structural integrity has not been compromised. One block is currently occupied by the CARICOM Disaster Relief Unit. Other block can be occupied with minimal resources.

- Low debris levels
- Minor damage to some areas on the roof of each building
- No mobile signal on site
- No confirmed gen set. CDRU has small generators on site
- Confirmed water storage tank on eastern side of property
- Slightly water logged. Can be easily removed.
- No confirmed occupants in eastern block
- No mobile signal
- Confirmed water supply from pipes via storage tank located on hill.



4.14.12 Visions Child Development Centre

The structural integrity has not been compromised. Ground floor is secure and currently used as a worship area and distribution centre. Basement is in good condition with minor water logged areas. Pastor is willing to accept items in need of distribution.

- Low debris levels
- No visible structural damage to building
- No mobile signal on site
- No confirmed gen set or power on site

- Confirmed underground water storage tanks (14,221gals & 14,116gals)
- Slightly water logged. Can be easily removed.
- Unconfirmed occupants
- No mobile signal
- No water supply



4.14.13 First Impressions

The structural integrity of the main block has not been compromised. Building can be occupied with minimal resources.

- Medium debris levels
- No visible structural damage to main block
- No mobile signal on site
- No confirmed gen set or power on site
- Confirmed underground water storage tank
- Localised area affected by water. Can be easily removed.
- Unconfirmed occupants
- No mobile signal
- No water supply





4.14.14 Century House Montessori & Little Penguins Montessori

The structural integrity of the buildings on site has not been compromised. The roofs of each building are intact barring the lean-to roofs of 2 minor rooms. Buildings can be occupied with minimal resources

- Kitchen is intact
- Confirmed water storage (2No. plastic tanks & 1No. underground tank)
- Low debris levels
- Overall structure appears to be in very good condition
- Unconfirmed occupants
- No mobile signal
- No water supply





4.14.15 Agape Total Life Centre

The structural integrity does not appear to be compromised. Building can be occupied with minimal resources.

- Site assessed with minimal light hence limited quality photos.
- Low debris levels
- No visible structural damage
- Building is readily habitable with minor repairs to some doors and windows.
- No mobile signal on site
- Functional 20kW LPG gen set with 2 No. regular tanks on site
- 2No. diesel drums on site. Contents unconfirmed.
- Confirmed underground water storage tank
- Localised areas affected by water. Can be easily removed.
- Unconfirmed occupants
- No water supply
- Functional Kitchen

4.14.16 Ivan Dawson Primary School

The structural integrity does not appear to have sustained any notable structural damage. Temporary shuttering can be installed to roof (if required), windows and doors with minor resources with a view to making the building habitable in the short term.

The non-functioning waste water treatment to the north of the site is a serious health concern and should be address before the school is occupied.

- High debris levels
- No visible structural damage
- In very close proximity to non-functional waste water treatment plant
- Building is habitable with minor repairs to some doors and windows.
- No mobile signal on site
- No confirmed underground water storage tank
- Localised areas affected by water (storm surge)
- Unconfirmed occupants
- No water supply

4.14.17 Jost Van Dyke Primary School

Each building at this site has lost the entire roof structure. Despite this, the structural integrity of the remaining buildings does not appear to have been affected. This school is incapable of being restored in the immediate future due to lack of, and strain on local resources.

- High debris levels
- No apparent damage to remaining superstructure
- No mobile signal on site
- No confirmed underground water storage tank
- No water supply
- No Confirmed Gen set



4.14.18 Francis Lettsome Primary School (Not Safe/Smart Certified)

This property suffered very minor damage and is already occupied as a temporary shelter.

4.14.19 Cedar International

- Minor damage to overall structure
- Low level of debris
- Minor damage from water ingress
- Confirmed functioning gen set
- Has a usable kitchen
- Approximately 10 occupants (mainly staff)
- Unconfirmed rainwater storage tank

4.14.20 Elmore Stoutt (Not Safe/Smart Certified)

No assessment completed

4.14.21 Willows Day Care

No assessment completed

5.0 NEEDS LIST

See attached

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|---|---------------------------------|--|--------|-----------|---------------|-------------------------------------|--|--|
| Medical Sector | | | | | | | | |
| 1 | Ambulance | Type 2 US Ambulance with 4wd conversion or equivalent. Chevy Wheeled Coach. Fully loaded with EMT Kits | 4 | 90,000 | United States | Chevy with Wheeled Coach conversion | | |
| 2 | Field Stretcher | Tactical Field Stretcher | 20 | 500 | United States | Rayomed | | |
| 3 | Patient Monitor/Defibrillator | Zoll M Seres Defibrillator with 12 lead monitor | 4 | 12,000 | United States | Rayomed | | |
| 4 | Point of Care Testing Equipment | I-stat System | 4 | 8,000 | United States | | | |
| 5 | EMT Kits | Standard EMT Jump Kit | 4 | 400 | United States | Rayomed | | |
| 6 | Mobile Clinics | | | | | | | |
| 7 | Ambulance Boat | For Medical Vaccination | | | | | | |
| Virgin Islands Fire and Rescue Service | | | | | | | | |
| 8 | Water Tender | Quick Attack Apparatus, Ultra High Pressure System, Auto Trans, Gear Ratio and Shaft to accommodate mountainous terrain, heavy duty hydraulic dampers to facilitate robust lift kit, outfitted with UK standard firefighting equipment | 3 | \$270,000 | USA | Chevy | | |
| 9 | Rescue Tender | NEED SPECS OF TENDER with Multi compartment, outfitted: Hydraulic Dumpers, Jaws of Life, Jacks, Air Bags, Portable generators | 1 | \$90,000 | USA | Chevy | | |
| 10 | Utility Vehicles | 4x4, Twin cab, (Red), 4 door Pickup with auto trans, on-board radio | 6 | \$60,000 | USA | Chevy | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|---|--|---|--------|-----------|---------|----------|--|--|
| 11 | Repairs to Fire Headquarters Building. | Roofing Material, furniture, windows, doors | TBD | \$150,000 | BVI | | | |
| 12 | Hand/Held Radios | 1) Kenwood NX-220 Transceiver w/ Rapid Charger | 30 | | USA | | | |
| 13 | Unniform | Work Shirts, Working Trousers, Perm-shine Shoes (Size 12x5, Size 11.5x5, Size 11x7, Size 10.5x7, Size 10x6, Size 9.5x5, Size 9x5, Size 8.5x5, Size 6x5) | 50 | | | | | |
| 14 | Fire Fighting Gear | Helmets, Tunics, Leggings, Boots (Size 12x5, Size 11.5x5, Size 11x7, Size 10.5x7, Size 10x6, Size 9.5x5, Size 9x5, Size 8.5x5, Size 6x5) | 50 | | | | | |
| 15 | Chain Saws | Husqvana | 6 | | | | | |
| 16 | Generators | | 6 | | | | | |
| 17 | Wood Chippers | | 1 | | | | | |
| 18 | Refridgerators | | 6 | | | | | |
| 19 | Military Grade Field Generators | | 6 | | | | | |
| 20 | Stoves | | 6 | | | | | |
| 21 | Metal Compactors | | | | | | | |
| 22 | Wheel Barrow | | 16 | | | | | |
| 23 | Metal Compactors | | | | | | | |
| Information Communication Technology | | | | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|----------------------------|------------------------------|---------------|--------|------|---------|----------|--|--|
| 24 | Lap top | | 23 | | | | | |
| 25 | Printers | | 4 | | | | | |
| 26 | Satelite Phone | | | | | | | |
| Shelter Assessories | | | | | | | | |
| 27 | Tarpaulin/Plastic Sheeting | | | | | | | |
| 28 | Cots | | | | | | | |
| 29 | Blankets | | | | | | | |
| 30 | Linen | | | | | | | |
| 31 | Towels | | | | | | | |
| 32 | Water Pumps | | | | | | | |
| 33 | Fuel Pumps | | | | | | | |
| 34 | Water Jugs | | | | | | | |
| 35 | Hand Tools (Hammers) | | | | | | | |
| 36 | Hand Tools (Chisels) | | | | | | | |
| 37 | Hand Tools (Socket Set) | | | | | | | |
| 38 | Hand Tools (Screwdriver Set) | | | | | | | |
| 39 | Lumber 2'X4"X20' | | | | | | | |
| 40 | Plywood 6'X4' | | | | | | | |
| 41 | Water Purifucation Tablets | | | | | | | |
| 42 | Tarpaulin | | | | | | | |
| 43 | Screws | | | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|------------------------------|----------------|---|--------|------|---------|----------|--|--|
| 44 | Inverters | | | | | | | |
| 45 | Nails | | | | | | | |
| Communications Sector | | | | | | | | |
| 46 | HF Stations | ICOM IC- 7300 100watt Transceiver | 4 | | | | | |
| | | Astron 30 AMP Power Supply | 4 | | | | | |
| | | Shakespeare 390 Antenna | 4 | | | | | |
| | | Ah-4 Auto Antenna Tuner | 4 | | | | | |
| | | G5RV wire antenna | 4 | | | | | |
| | | 2-way antenna switch | 4 | | | | | |
| 47 | Repeaters | Kenwood NXR-710VHR rep. w/ UHF link transceivers | 5 | | | | | |
| | | Kenwood Power Supply Units w/ Battery revert. | 5 | | | | | |
| | | Sanclair duplexors w/ cables tuned to above frequencies | 5 | | | | | |
| | | Sets of inter connect cables for duplexor | 5 | | | | | |
| | | 100ft Heliax 1/2 inch cable w/ connectors installed. | 5 | | | | | |
| | | Decibel DB-224 antennas for 150 to 160 MHz. | 5 | | | | | |
| 48 | Portable Units | Kenwood NX-220 Transceiver w/ Rapid Charger | 50 | | | | | |
| 49 | | Battery for NX-220 (spare) | 50 | | | | | |
| 50 | Antennas | Marine Fibre glass | 1 | | | | | |
| | | Sinclair SG-213 | 10 | | | | | |
| | | Crushcraft 2 ele Yagi 7Mhz | 1 | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|--|--------------------------------|---|--------|------|---------|----------|--|--|
| | | Software and Programming cables for above equipments. | | | | | | |
| 51 | Weather Stations | Awaiting Specs | 18 | | | | | |
| 52 | Seismic Stations | ETNAS | 5 | | | | | |
| | | Grantio | 1 | | | | | |
| | | K2 | 1 | | | | | |
| | | Server | 1 | | | | | |
| 53 | Sirens | Federal Signal Outdoor Warning Sirens (Mod4016B) | 8 | | | | | |
| 54 | Repeater Antennae | | | | | | | |
| 55 | Mobile Repeaters | | | | | | | |
| Electrical Sector- Bvi Electrical Corp. | | | | | | | | |
| 56 | Aerial Devices (Bucket Trucks) | 2016 FL M2 , 4x4 chassie with alter TA45M Telescopic Articulating Aerial Device. | 1 | | USA | | | |
| 57 | Conductors (wire) | ALTON AAAC -Alloy Bare Aluminum AWG | 60,000 | | | | | |
| | | Whippet Duplex Services Drop #4-7 Aluminum with Xlpe Insulation, | 12,000 | | | | | |
| | | Triplex Services Drop #2-7 Aluminum with Xlpe Insulation, Multiplex Service Cable | 18,000 | | | | | |
| | | Multiplex Service Cable Duplex Code Name Whippet #4 AWG with VIP (Vulcanized Insulated Conductors), | 12,000 | | | | | |
| | | 602283-2 Amp Connectors White | 200 | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|--------|-----------------|---|--------|------|---------|----------|--|--|
| | | 600456 AMP Conductors Blue, | 500 | | | | | |
| | | Multiplex Service Wire Triple Code Name Shimp #2 AWG with VIP (Vulcanized Insulated Conductors), | 18,000 | | USA | | | |
| 58 | 3 YD Truck Dvwp | | | | USA | | | |
| 59 | Hand Tools | C403 -0979 Detector volt multi-range 1-40 KV Scale | 1 | | | | | |
| 60 | | flag Pole Aluminum/Cone - Tapered 25" W/6" Butt, Internal Halyard E/Ball, C/W Ground Socket Foundation, | 2 | | | | | |
| 61 | | RKVA2-009 Label 150 KVA | 10 | | | | | |
| 62 | | RKVA2-011 Labe; 225 KVA, RKVA2-014 Label 500 KVA | 10 | | | | | |
| 63 | | RKVA2-022 Label 750 KVA, | 10 | | | | | |
| 64 | | RKVA1-003 Lable 15 KVA | 10 | | | | | |
| 65 | | RKVA1-002 Lable 10 KVA, | 10 | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|--------|------|---|--------|------|---------|----------|--|--|
| 66 | | RKV1-005 Lable 50 KVA | 10 | | | | | |
| 67 | | RKVA1-004 Lable 25 KVA, | 10 | | | | | |
| 68 | | RKVA1-006 Lable 75KVA | 10 | | | | | |
| 69 | | RKVA2-008 Lable 100 KVA, | 10 | | | | | |
| 70 | | ,RKVA2-008 Lable 100 KVA, | | | | | | |
| 71 | | RVM- 120/240 Reflective Votage marker 120/240 | 10 | | | | | |
| 72 | | RVM -277/480 Reflective Voltage Maker 277/480 | 10 | | | | | |
| 73 | | | | | | | | |
| 74 | | RVM-120/208 Reflective Votage Marker 120/208 | 10 | | | | | |
| 75 | | 8400C High Intensity Stroble Light (Complete Unit) | 10 | | USA | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|--------|--------------|--|--------|------|---------------|----------|--|--|
| 76 | Transformers | Transformer Ground MTD. 25 KVA, 1 Phase 3 wire 13,200 volts Delta Primary 120/240 Volts Secondary at no Load | 20 | | United Kindom | | | |
| 77 | | 1 But 50 KVA | 10 | | | | | |
| 78 | | 1 But 75 KVA | 15 | | | | | |
| 79 | | 1 But 100 KVA | 25 | | | | | |
| 80 | | 2 BJE161 Transformer pole mounted 10KVA Stainless Steel 1 Phase 3 wire 13,200 volts Delta Primary 120/240 Volts, | 50 | | | | | |
| 81 | | DrwG. E80-8739.1 | 150 | | | | | |
| 82 | | DrwG. E80-8741.1 | 150 | | | | | |
| 83 | | Drwg. E80-8803.0 | 100 | | | | | |
| 84 | | 2 BJE0201 | 50 | | | | | |
| 85 | | 2 BJE0261 | 50 | | | | | |
| 86 | | 2BJE0401 | 50 | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|--------|-----------------------|---|--------|------|----------------|----------|--|--|
| 87 | | 2 BJE0501 | 50 | | | | | |
| 88 | | 2BJE0161 | 50 | | | | | |
| 89 | Electrical Inspectors | Human Resources | 200 | | | | | |
| 90 | Roofing Material | | | | United Kingdom | | | |
| 91 | Structural Engineers | Human Resources | 3 | | | | | |
| 92 | Copiers | | 5 | | USA | | | |
| 93 | Fax Machines | | 5 | | USA | | | |
| 94 | Filing Cabinets | | 40 | | USA | | | |
| 95 | Truck's Pickup | Motor Vehicle 2015 Chevrolet Silverado 2500HD Regular Cab Pick Up 4x4, 2 Door 113" WB- Pick up Box 8" 6.0L V8 Motor Gas/Automatic Transmission 6 Speed Heavy Duty | 5 | | USA | | | |
| 96 | Generators | 500 KW | 2 | | USA | | | |
| 97 | Linesmen | Human Resources | 60 | | | | | |
| 98 | Meter Technicians | Human Resources | 15 | | | | | |
| 99 | Electrical poles | Wooden Poles Class 4 Yellow Pine 30FT | 100 | | | | | |
| | | Wooden Poles Class 4 Yellow Pine 35 FT | 200 | | | | | |
| | | Wooden Poles Class 4 Yellow Pine 40FT, | 200 | | | | | |
| | | Wooden Poles Class 4 Yellow Pine 45FT | 150 | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|---|----------------------------------|--|--------|------|---------|----------|--|--|
| 100 | Crossarms | Cross Arm Galvanised 3 Phase Intermediate Including the Straps, Bolts, Nuts and Washers, | 500 | | | | | |
| 101 | | 88042 Cable Gland Kit for 3 and 4 Cord 50 SQ MM SVA Cable | 150 | | | | | |
| Vector Control - Environmental Health Sector | | | | | | | | |
| 102 | Anitmalarial Oil (VG) | | | | | | | |
| 103 | Hand Held Fogging Machine | | 6 | | | | | |
| 104 | fogging Mixture (VG) | | | | | | | |
| 105 | Abate | | | | | | | |
| 106 | Tires | 265/65R17 | 2 | | | | | |
| 107 | Insect Repellents | | | | | | | |
| 108 | Vehicle Mounted Fogging Machines | | 4 | | | | | |
| Water Quality | | | | | | | | |
| 109 | Shock Chlorine Powder | | 1 pale | | | | | |
| 110 | Chlorine Reagents | | 1 tub | | | | | |
| 111 | Chlorine test Kits | | 5 | | | | | |
| Sanitation | | | | | | | | |
| 112 | Chemical Closets (shelter) | | | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|---|--------------------------------|--|-----------|------|------------------|----------|--|--|
| 113 | Portable Hand Washing Stations | | | | | | | |
| Food Safety | | | | | | | | |
| 114 | Thermometers | Infra-red Probe | 7 each | | | | | |
| 115 | Gloves | | | | | | | |
| 116 | Hair Nets | | | | | | | |
| 117 | Lab Coats | | | | | | | |
| 118 | Denaturant | | | | | | | |
| Official Duties | | | | | | | | |
| 119 | Vehicles | 4x4, Diesel, 4 door pick Chevrolet or Ford | 3 | | | | | |
| 120 | Respiratory Masks | | | | | | | |
| 121 | Disposable Overalls | | | | | | | |
| 122 | Environmental Health Officers | | 6 or more | | | | | |
| 123 | Vector Control Officers | | | | | | | |
| 124 | Damage Assessors | Home/Social | 24 | | CDEMA OR CARICOM | | | |
| 125 | Plotter | | 1 | | | | | |
| 126 | Cooking Equipment | | | | | | | |
| National Emergency Operation Centre / DDM HQ | | | | | | | | |
| Construction of new NEOC Building | | | | | | | | |
| 127 | Emergency kit | | | | | | | |
| 128 | Furnitures | | | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|------------------------------------|---------------------------|--------------------------------|--------|------|---------|----------|--|--|
| 129 | Loud Hailers | | | | | | | |
| 130 | Office shredder | | 2 | | | | | |
| 131 | Flash Drive / Jump Drives | 5-64g | 15 | | | | | |
| 132 | Printer | desktop, w/ capability to scan | | | | | | |
| 133 | ink | | | | | | | |
| Building Materials | | | | | | | | |
| Water and Sewage department | | | | | | | | |
| 134 | Backhoes | | 3 | | | | | |
| 135 | Dump Truck | 5 yard | 2 | | | | | |
| | | 3 yard | 1 | | | | | |
| 136 | Pickup Trucks | Heavy duty | 3 | | | | | |
| 137 | Radios + Repeater | | | | | | | |
| 138 | Utility Trucks | Extra Cab, 4 wheel Drive | 4 | | | | | |
| 139 | SDR In pipes | | | | | | | |
| 140 | Utility Vehicles | Small | 7 | | | | | |
| 141 | Mobile Trailer | 40 ft | 2 | | | | | |
| | | 20 ft | 2 | | | | | |
| 142 | Satelite phones | | | | | | | |
| 143 | Water Pumps | hydraulics | 1 | | | | | |
| | | 2inch Submersible | 2 | | | | | |
| Public Works Department | | | | | | | | |
| 144 | Wheel Barrow | | | | | | | |
| 145 | Metal Compactor | | | | | | | |
| 146 | Heavy Duty Trucks | 20 yard | 2 | | | | | |
| | | 10 yard | 2 | | | | | |
| | | 5 yard | 2 | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|---------------------------|--------------------|--------------------------------------|--------|------|---------|----------|--|--|
| 147 | Backhoes | With Hammer | 4 | | | | | |
| 148 | Bob Cats | with Attachment , with sweeper | 2 | | | | | |
| 149 | Pickup Trucks | Heavy Duty | 4 | | | | | |
| | | Smaller | 4 | | | | | |
| 150 | SUVs | | 5 | | | | | |
| 151 | Radios - Repeaters | | 15 | | | | | |
| 152 | Chain Saws | Heavy duty | 4 | | | | | |
| | | Regular Industrial Strength | 6 | | | | | |
| 153 | Generators | portable, 5500 watt 110/220 | | | | | | |
| 154 | Satellite phone | | | | | | | |
| 155 | Saw Cutter | for Roads | | | | | | |
| 156 | Excavator | | | | | | | |
| | | | | | | | | |
| Waste Management | | | | | | | | |
| 157 | Garbage Trucks | 25 Cubic Yard Rear Loading Compactor | 2 | | | | | |
| 158 | Dump Truck | 20 Cubic Yard | 2 | | | | | |
| 159 | Front End Loader | | 2 | | | | | |
| 160 | Back Hoe | | 1 | | | | | |
| 161 | Flatbed | roll on , roll off | 1 | | | | | |
| 162 | Pickup Trucks | Extra Cabs | 4 | | | | | |
| | | | | | | | | |
| Building Materials | | | | | | | | |
| 163 | Lumber | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |
| 164 | Treated Plywood | 2*4*16 | | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|---|----------------------|-----------------------------|--------|------|---------|----------|--|--|
| | | 2*4*16 | | | | | | |
| | | 2*8*16 | | | | | | |
| | | 3*8*16 | | | | | | |
| 165 | Construction plywood | | | | | | | |
| 166 | Tar Paper | | | | | | | |
| 167 | Galvanize | 24 Gauge , 18ft, 14ft, 12ft | | | | | | |
| Autism Centre | | | | | | | | |
| 168 | Laminating Machine | 1000 L - 12inch | | | | | | |
| | | 3 mil or 5 mil pouchers | | | | | | |
| 169 | Desktop Computers | | 8 | | | | | |
| 170 | Lap Top | | 4 | | | | | |
| 171 | Printer | Samsung Black and White | | | | | | |
| 172 | Copier | Canon Coloured | | | | | | |
| Information and Communication Technology | | | | | | | | |
| 173 | Servers | | | | | | | |
| 174 | UPS | | | | | | | |
| 175 | Copus | | | | | | | |
| Agriculture and Parks | | | | | | | | |
| 176 | Chain saws | | | | | | | |
| 177 | Boat | for airport , inflatable | | | | | | |
| Education Sector | | | | | | | | |
| Paper products | | | | | | | | |
| 178 | Ink | for Printers | | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|--------|-------------------------|--------------------------------------|--------|------|---------|----------------------|--|--|
| 179 | Toner | | | | | | | |
| 180 | Paper | various Sizes , printing paper | | | | | | |
| 181 | Crayons | Regular | | | | | | |
| | | Jumbo | | | | | | |
| 182 | Pencils | Regular and jumbo | | | | | | |
| 183 | pen | Regular and jumbo | | | | | | |
| 184 | Note Books | | | | | | | |
| 185 | Markers | dry, permanent | | | | | | |
| 186 | Marker Boards | with board erasers | | | | | | |
| 187 | Projectors | OHP OR LCD | | | | | | |
| 188 | Text Books | | | | | | | |
| 189 | Reading and Math Books | For pre-school - 9th grade big books | | | | | | |
| 190 | Storage Containers | | | | | for various supplies | | |
| 191 | Manilla / Poster Boards | | | | | | | |
| 192 | Ruler | Metre sticks , 12" , 36" | | | | | | |
| 192 | Glues | | | | | | | |
| 194 | Tape | | | | | | | |
| 195 | Scissors | | | | | | | |
| 196 | Manipulatives | | | | | | | |
| 197 | Personal Dolls | | | | | | | |
| 198 | Math Kids | | | | | | | |
| 199 | Puppets | | | | | | | |
| 200 | Building Blocks | | | | | | | |
| 201 | Mats | | | | | | | |
| 202 | Sharpeners | | | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|------------------|-------------------------|---|--------|------|---------|----------|--|--|
| 203 | Staplers | | | | | | | |
| 204 | Staples | | | | | | | |
| 205 | Learning Kits | | | | | | | |
| 206 | Charts | Educational | | | | | | |
| 207 | Educational Videos | | | | | | | |
| 208 | Radios | Battery Operated | | | | | | |
| 209 | Batteries | | | | | | | |
| 210 | Paint | Powder | | | | | | |
| 211 | Modelling Clay | | | | | | | |
| 212 | Book Shelves and Stands | | | | | | | |
| 213 | Easels | | | | | | | |
| 214 | Paint Brushes | Regular or jumbo | | | | | | |
| 215 | Butcher Paper | | | | | | | |
| 216 | Clocks | | | | | | | |
| 217 | Folders / Binder | | | | | | | |
| 218 | Back Packs (bags) | | | | | | | |
| 219 | Toys | ECD for building motor skills etc | | | | | | |
| Equipment | | | | | | | | |
| 220 | Generators | | | | | | | |
| 221 | Water Pumps | | | | | | | |
| 222 | Copier | | | | | | | |
| 223 | Computers | Lap Tops and Desk Top | 2000 | | | | | |
| 224 | Printers | Copiers/ Fax/Scanner, ink jet and Laser | 25 | | | | | |
| 225 | Flat Panel Tv's | 32" or bigger | | | | | | |
| 226 | Dvd Players | | | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|--------|---------------------------|-------------------|--------|------|---------|----------|--|--|
| 227 | PA/ Bell/ Intercom system | | 19 | | | | | |
| 228 | UPS | | | | | | | |
| 229 | Storage Cabinets | | | | | | | |
| 230 | Filing Cabinets | | | | | | | |
| 231 | Charging Cabinets | for laptops | | | | | | |
| 232 | Microwaves | | | | | | | |
| 233 | Fridges | | | | | | | |
| 234 | Toaster Ovens | | | | | | | |
| 235 | Extension Cords | | | | | | | |
| 236 | Surge Protectors | | | | | | | |
| 237 | Power Strips | | | | | | | |
| 238 | Electric Kettles | | | | | | | |
| 239 | Bottles Warmers | | | | | | | |
| 240 | Gas Hot Plate | | | | | | | |
| | | | | | | | | |
| 241 | Acrylic Paint | All Colours | | | | | | |
| 242 | Paint Brushes | | | | | | | |
| 243 | Drawing Paper | | | | | | | |
| 244 | Sketch Pads | | | | | | | |
| 245 | Sketching Pencils | | | | | | | |
| 246 | Erasers | Vinyl, Rubbers | | | | | | |
| 247 | Colour Pencils | | | | | | | |
| 248 | Water Colour Pans | | | | | | | |
| 249 | Construction Paper | | | | | | | |
| 250 | Canvas | Cotton, Universal | | | | | | |
| 251 | Water Colour Paper | | | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|--------|-------------------------------|--------------------------------|--------|------|---------|----------|--|--|
| 252 | White Poster Board | | | | | | | |
| 253 | Grip Knife | | | | | | | |
| 254 | Self Mealing Cutting Mats | | | | | | | |
| 255 | Scissors | Fiskar | | | | | | |
| 256 | Elmer's Glue | | | | | | | |
| 257 | Craft Sticks | | | | | | | |
| 258 | Paper Mache' Boxes and frames | | | | | | | |
| 259 | Beads | | | | | | | |
| 260 | Glue Gun | | | | | | | |
| 261 | Glue Sticks | | | | | | | |
| 262 | Paper Mat Books | | | | | | | |
| | | | | | | | | |
| 263 | Teachers Chairs | | | | | | | |
| 264 | Students Chairs | Desk Combo , Grades 3-6 | | | | | | |
| 265 | Students desk | Individual Chairs , Grades 3-6 | | | | | | |
| 266 | Cabinets | Fire Proof | 25 | | | | | |
| 267 | | Storage | | | | | | |
| 268 | teacher's Desks | | | | | | | |
| 269 | Shelves | For Classrooms | | | | | | |
| 270 | Lab Stools | | | | | | | |
| 271 | Picnic Benches | for Outdoors | | | | | | |
| 272 | Lounge Chairs | | | | | | | |
| 273 | Furniture | Pre-school (Grade 2) | | | | | | |
| 274 | Blankets | | | | | | | |
| 275 | Sleeping Mats | | | | | | | |

VIRGIN ISLANDS Draft NEEDS LIST as of September 15, 2017

| Serial | Item | Specification | Amount | Cost | Country | Comments | | |
|---------------------------|---------------------------------|--|--------|------|---------|----------|--|--|
| 276 | Cots | Foldable, Stackable | | | | | | |
| Adina Donovan Home | | | | | | | | |
| 277 | Beds | | | | | | | |
| 278 | Basic Electric Hospital Beds | | 18 | | | | | |
| 279 | special Electric (Hilrom) Beds | Head and Food elevation, height control (up and down) | 3 | | | | | |
| 280 | Vehicles | | | | | | | |
| 281 | Hyundai Country Deluxe Bus | With lift or equivalent 3 door at least 17-20 passengers | 1 | | | | | |
| 282 | Kia Sportage Jeep or equivalent | 4 door 5 passenger | 1 | | | | | |
| 283 | Pick up Truck | 4 door | 1 | | | | | |
| 284 | Bedside Lockers | Top drawer/bottom doors | 21 | | | | | |
| 285 | Over Beds Table | Surface 18"W x 32" Lx 3/4 thick. Adjustable up to 30" - 45" | 21 | | | | | |
| 286 | Wheelchairs | Removable full-length arms, swing away detachable elevating legrests | 5 | | | | | |
| | | 18" Reclining wheelchair with elevating swing away footrests with anti-tippers 250lbs capacity | 1 | | | | | |
| 287 | Meal Delivery Cart | Capacity 16-20 meals | 1 | | | | | |
| 288 | Meal Trays | Accompanying trays to fit cart | 20 | | | | | |
| 289 | Recliners | Seat height 20" over-all height 46", seat width 19", overall width 26", seat depth 21.75, back height above seat 32", weight capacity 275lbs | 6 | | | | | |

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|------------------------|--|---|--------|------|---------|----------|--|--|
| 290 | Electronic Thermometers | Sport Vital Signs (welch Allyn) with NIBP, Nelcor Pulse Oximeter and temperature and/with mobile stand | 1 | | | | | |
| 291 | Refrigerator | Large freezer capacity | 1 | | | | | |
| 292 | Medication Cart | Bin medication cart (with security lock compartment to store 3 month supply and liquid medications or 24- bin medication cart | 1 | | | | | |
| 293 | Isolation and Infection Control Trolley/Cart | 29"w x 24"D x43"H (overall) including casters, bumper and top, key lock, 4 drawer railing and supports utility hooks | 1 | | | | | |
| 294 | Oral Thermometer | Fahrenheit/Celsius with large LCD display | 2 | | | | | |
| 295 | Sitting Chairs | Bedroom sitting chair | 10 | | | | | |
| 296 | Lounge Set or Sofa | For front office with 2 chairs | 1 | | | | | |
| 297 | Desktop Computer | | 1 | | | | | |
| 298 | Laptop | | 1 | | | | | |
| Human Resources | | | | | | | | |
| | Electrical Inspectors | Human Resources | 200 | | | | | |
| | Structural Engineers | Human Resources | 3 | | | | | |
| | Linesmen | Human Resources | 60 | | | | | |
| | Meter Technicians | Human Resources | 15 | | | | | |
| | | | | | | | | |
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