

Puerto Rico after the emergency:

Section 5324

Emergency Relief Program updates

2019 State Program Annual Meeting



Puerto Rico Highway and Transportation Authority (PRHTA)₁

Emergency Overview

- During September 2017, Puerto Rico underwent one of its major catastrophes in the last century.
 - Emergency was declared on September 20, 2017 due to Hurricanes Irma and María.
- Lack of electricity, access to clean water and other basic provisions were limited.
- PRHTA transit operator damages were estimated as per FTA assessment in more than \$200 million dollars.
- Emergency response activities were focused on reestablishing all transit operations.
 - Critical operations as the **Maritime Transit Authority** were crucial to deliver first response aid to Vieques and Culebra islands.



Damages to the Transit System



Damages to the Transit System

After Hurricane Irma and María

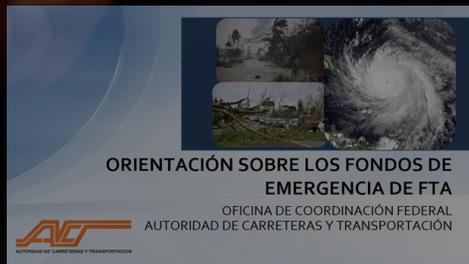
- Emergency Relief Program (5324) Allocation was published on May 2018
 - (Federal Register / Vol. 83, No. 105 / Thursday, May 31, 2018)

Recipient	Allocation
Municipalities (direct recipients)	\$ 14,778,000
PRHTA*	\$ 169,412,000
Metropolitan Bus Authority	\$ 13,599,000

* Includes sub-recipient Municipalities, Tren Urbano and Maritime Transport Authority

After Hurricane María

- PRHTA under the Federal Coordination Office, started an orientation process with the Municipalities
- July 23 to August 3, 2018
- 28 Municipalities participated in the process



Puerto Rico- Transit Systems



- Metropolitan Bus Authority



- 17 Stations
- Metro Urbano (Bus rapid transit)
- TU Conexión
- Metro Bus



- Terminals
 - Vieques
 - Culebra
 - Ceiba
 - Cataño
 - San Juan
 - Isla Grande Maintenance Base

Small Transit Operators

- 78 Municipalities



- **Tren Urbano** (Heavy Rail) operations could be partially initiated after three months of the impact of Hurricane María.
 - On **May 2018 Tren Urbano** operations were completely restored.
- Systems such as OCC/COM, TPSS, Fare Collection, escalators, among other were damaged.
- Water intrusion caused flooding in facilities, causing serious damages to infrastructure.



Images

1. Hato Rey
2. Domenech



- One (1) grant for \$4M+ was obligated.
- Projects included in the application
 - Diesel purchase
 - Emergency Protective Measures
 - Debris removal
 - Operational expenses
 - Emergency Repairs

- An estimate of more than \$140M are pending (waiver) to be obligated
 - Permanent Repairs
 - Architecture and Design services
- Improvement to stations infrastructures



- The **Maritime Transit Authority** operations were initiated after less than a week of the impact of Hurricane María.
- The ferry system was crucial to connect two municipal island.
 - Provisions, first responders and general aid were transported by MTA vessels.
- One passenger vessel (Culebra II) sunk while in drydock in St. Thomas due to Hurricane Irma.
- Damage estimates for the Maritime Transit Authority are around \$35M to \$40M



Maritime Transit Authority

- Application for MTA is in process, will include:
 - Operational Expenses
 - Capital Projects
 - Acquisition of new vessel
 - Rehabilitation of ferry terminals
 - Rehabilitation to Maintenance Facilities





Small Transit Operators

- Limited operations were initiated on Sept 29, 2017
- Only 45 buses were operating
- On January 2018, all operations were re-established to normal capacity.

- Limited operations were initiated days after Hurricane María
- Service was for the transportation food and supplies
- Vehicles were used to transport local and federal rescuers

Metropolitan Bus Authority

- One (1) grant obligated and Two (2) applications ongoing
- Projects included in the application
 - Fuel expenses
 - Overtime and labor hours
 - Rehabilitation of transit facilities
 - Power Generators



PRHTA- Subrecipients

- Two (2) applications are in process
 - 9 Municipalities included
- Projects included in the application
 - Damages to public terminals
 - Damages to FTA Fleet
 - Evacuation of residents to safe areas and shelters
 - Transportation of supplies to the communities
 - Fuel expenses
 - Purchase of emergency communications
 - Debris removal

**Small Transit
Operators**

Municipalities-Direct Recipients

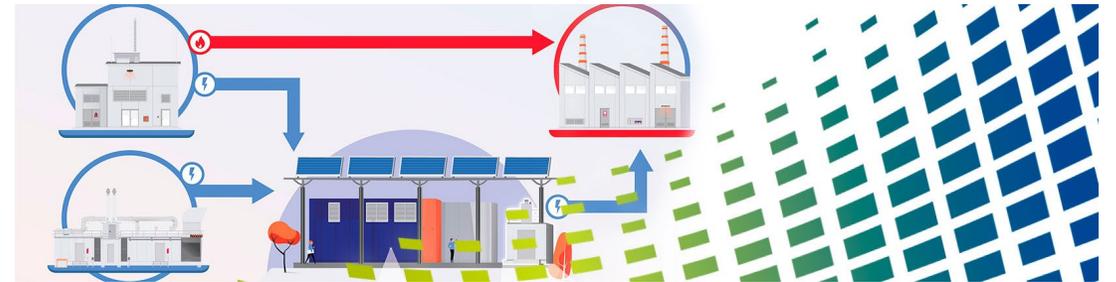
- Fourteen (14) applications are being drafted
 - 13 Municipalities
 - **\$7,080,000** in TrAMS Application
- Projects included in the application
 - Damages to public terminals
 - Fuel expenses
 - Damages to FTA Fleet
 - Debris Removal

Small Transit
Operators



Resiliency project

- Resiliency Allocation for PRHTA
 - **\$25,721,000**
- PRHTA will use the allocation of resiliency for projects to Tren Urbano
- Resiliency projects proposed:
 - Power generator Micro-grid Project
- Assessment is being perform to the determine the capacity
- Will allow **TREN URBANO** to continue operations in a limited capacity when electric services if the electrical system is interrupted.



How are we preparing for the next emergency?

- Training
 - Developing a Transit Emergency Management Plan
 - March 12 and 13, 2019
 - Participants from all Municipalities and Agencies
- Through FTA funding (Section 5303), the Municipalities are incorporating emergency preparedness into their operating plans.



Questions?

