



TacSat Networks, Inc.

STA (Special Temporary Authority)

Sept. 14 2018

Background This request is to extend the current 7 day STA granted on 14 Sept. 2018 for satellite dish/terminals located on the roofs of the 4 Costco Wholesale stores in the metro area in San Juan, Puerto Rico.

Manufacturer The satellite antennas are manufactured by C-Com, Ottawa, Canada. The model is # MA-Ka-75V. It is currently certified on Viasat 1 and also for mobility.

Locations The antennas are on the roofs of the 4 stores listed below:

Stowable Satellite Dishes

Costco Wholesale Locations		
Store #	Address	Costco Store Name
1	125 Calle A, Bayamon, PR 00959	E Bayamon
2	PR-2, KM 15.5, Bayamon, PR 00961	W Bayamon
3	1185 Ave. 65 Infanteria, San Juan, PR 00924	Carolina
4	200 Ave. Rafael Cordero, PR#30, Caguas, Bairoa Ward, PR 00725	Caguas

Satellite The satellite beam utilized over Puerto Rico is Ka Band from the ViaSat 2. The ViaSat 2 p-tria's are installed on the C-Com dishes.

Continued on next page



TacSat Networks, Inc.

Basis of Request

We are requesting an STA (Special Temporary Authority) permit to provide Costco who is a Tier 2 FEMA Disaster & Recovery partner with 4 fixed, electrically stowable Ka Band antennas in San Juan, Puerto Rico. These antennas are already used in the United States as mobile/nomadic applications using the Wildblue and Viasat 1 satellites. The only difference is the p-tria, which utilizes the ViaSat 2 beam, which is the only option for Puerto Rico.

We only need this because ViaSat 1 doesn't have coverage over Puerto Rico. This STA allows a dish to be electrically stowed and redeployed to avoid damage. It is permanently mounted on the rooftop. The system, the MA-Ka-75V made by C-Com in Ottawa, Canada would use ViaSat's p-tria/business modem that communicates with the ViaSat 2 satellite. It does not auto-acquire.

Costco had fixed dishes during Hurricane Maria last year that were destroyed by the hurricane. This electrical stowage prevents the satellite dish from being damaged. Additionally, there is very limited technical expertise available in Puerto Rico to manually do this. Costco was unable to operate and maintain a supply chain (water, generators, food, etc.) for the community. This new system would allow them to be back online and operational as soon as employees could return. Large retailers were shut down for 2-6 weeks after Hurricane Maria.

As an example, just this week, this retailer provided approximately 60 truckloads per day of bottled water (300 for 5 days) to local residents.

7 Day Permit

The 7 day permit was issued to allow time for this permit to be issued and approved. It is attached to this application for reference.

TacSat Networks, Inc.

Picture of Last Year's Dish destroyed

The dish below the one labeled "Hughes-net" is the rubble that was gathered after it was destroyed by Hurricane Maria. The Hughes-net service could not provide the necessary bandwidth and will be destroyed in another hurricane.





TacSat Networks, Inc.

TacSat's Electric Stowable Dish

The C-Com dish in the foreground is rated for winds of 140 mph in the stowed position. This strategy will greatly improve the survivability of the satellite system during extreme weather events.

