

MEMORANDUM OF UNDERSTANDING

Between

The Government of the British Virgin Islands

And

The University of Puerto Rico, Mayaguez Campus

.....

WHEREAS the Department of Disaster Management (DDM) is a Government Department under the Office of the Deputy Governor and is headed by a Director;

WHEREAS the policy and strategy of the DDM is administered by the National Disaster Management Council (NDMC), the Chairman of which is the Governor;

WHEREAS it is the overall mission of the DDM to seek to reduce the loss of life and property within the British Virgin Islands by ensuring that adequate preparedness, mitigation response and recovery mechanisms are established to counteract the impact of natural and man-made hazards;

AND WHEREAS in the execution of its mandate and in accordance with its mission the DDM will collaborate with local, regional and international agencies, organizations and individuals to provide the highest standards of protection for the Territory from hazards and disasters;

NOW THEREFORE THIS AGREEMENT WITNESSETH AS FOLLOWS:

Article 1

Interpretation

1. In this Memorandum of Understanding

"co-operating partner" means [The University of Puerto Rico, Mayaguez Campus];

"MOU" means this Memorandum of Understanding;

"DDM" means the Department of Disaster Management;

"parties" means the two parties signing this MOU;

"PRSMF" means Puerto Rico Strong Motion Program.

2. This MOU shall apply subject to such laws and practices of Government as are relevant to the matter in issue.

Article 2

Purpose of MOU

The purpose of this MOU is to describe and delineate the areas of co-operation between the DDM and [The University of Puerto Rico, Mayaguez Campus] in accordance with the objectives of both parties, which are

- a. to provide the BVI Government with basic strong motion free field station in the most populated regions (Road Town, Tortola and Spanish Town in Virgin Gorda) capable of gathering reliable data during low intensity tremors for the determination of dynamic properties and local amplification of the soil, and also capable of obtaining reliable and continuous data during large earthquakes. The acceleration records to be used for subsequent structural analyses of the infrastructure as well as for the study of the differences in soil behavior between the firm ground and the zone of reclaimed fill to the harbour;
- b. to seismically instrument the relevant government infrastructure; (1) the Government Central Administration Building in Road Town, Tortola and (2) the Airport Control Tower at Beef Island. This will allow for detailed structural analysis to be carried out on these structures using ambient noise and weak motion data;
- c. to install a joint seismic station at Anegada to include a broad band seismograph, a triaxial strong motion sensor, and a 24-bit data logger with continuous and reliable communication to the Puerto Rico Seismic Network;
- d. to re-deploy the short period seismograph currently in Anegada to the North Shore of Virgin Gorda to improve earthquake detection across the BVI.

Article 3

Respective Responsibilities of the Parties

1. The DDM shall
 - a. Provide funding to purchase instrumentation for all three years of the installation components of the project
 - b. be responsible for handling insurance, immigration and customs arrangements for the clearance of personnel and seismic instrumentation;
 - c. construct concrete pads for all free field stations;
 - d. Be responsible for providing electrical power and Internet communication.

2. The co-operating partner shall
 - a. provide matching funds in terms of in-kind for all three years of the project as well as provide travel funds.
 - b. notify the DDM promptly of any changes in circumstances that would make it impossible or difficult to fulfill the terms of this agreement or anything that may be agreed under this MOU;
 - c. purchase instrumentation on behalf of the DDM; instrumentation purchased will belong to the Department of Civil Engineering & Surveying of the University of Puerto Rico at Mayaguez;
 - d. properly install all seismic instrumentation at the designated sites;
 - e. provide at least yearly maintenance to the strong motion stations for at least the next ten years;
 - f. provide substitute instrumentation if existing instruments are to be removed for repair.;
 - g. provide new batteries to the stations at least every four years or when necessary;
 - h. provide training for DDM personnel to conduct light maintenance to all stations

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Article 4

Entry into Force, Amendment and Duration

1. This MOU shall enter into force upon signature of representative of the parties and may be amended by the written consent of the parties by entering into a supplementary MOU or by exchange of letters.
2. This MOU shall be of unlimited duration but may be terminated by either party by giving the other three months' notice in writing.
3. None of the parties, their servants, agents or employees shall be held liable for anything done or omitted to be done in good faith in furtherance or purported furtherance of the objectives of this agreement or any other objectives that may be agreed between the parties.

For the University of Puerto Rico
Mayaguez Campus (UPRM)

Dr. Jorge I Velez Arcoche
Chancellor

Signature: _____

Date: _____

12 Sept 2005

For the Government of
the British Virgin Islands

Mrs. Dancia Penn-Sallah
Deputy Governor

Signature: _____

Date: _____

Otto O'Neal
2nd September 2005
Permanent Secretary,
Administration

ANNEX

PROJECT OUTLINE

1. Year 1 (2005) - The first year focuses on the installation of strong motion free field stations. Three stations will be installed. The first at the T. B. Lettsome International Airport between the Control Tower and the Terminal Building. The second in the yard of the DDM Building at #3 Wailing Road, MacNamara, Tortola and the third between the Government Central Administration Building and the shore in Road Town. The DDM building will be responsible for casting thick concrete pads at the designated site and according to specification to be provided by the PRSMP. The PRSMP will install all equipment at these sites to include data loggers with strong motion sensors and Global Positioning Systems.
2. Year 2 (2006) - The main focus of the second year of the project will be the instrumentation of the T. B. Lettsome International Airport Tower and the Government Central Administration Building as well as the installation of a fourth free field station in Spanish Town, Virgin Gorda.
3. Year 3 (2007) - Installation of a broad band seismometer and strong motion sensor with data logger on Anegada and shifting of the existing Puerto Rico Seismic Network short period station to North Sound, Virgin Gorda. In addition a strong motion free field station will be installed on the fill area at the T. B. Lettsome International Airport.

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