Lan Cory Do not manyo

PRNC 19

PUERTO RICO NUCLEAR CENTER

HURRICANE PLAN MAYAGUEZ



OPERATED BY UNIVERSITY OF PUERTO RICO UNDER CONTRACT NO. AT (40-1)-1833 FOR U. S. ATOMIC ENERGY COMMISSION PUERTO RICO NUCLEAR CENTER
Operated by
UNIVERSITY OF PUERTO RICO
for
U.S. ATOMIC EMERGY COMMISSION

AUTHORIZATION

This Hurricane Plan has been revised and approved by PRNC Safety Committee. It is hereby approved and made operative as of August 7, 1963.

John C. Bugher, M. D. Director

John C. Rugher

PUERTO RICO NUCLEAR CENTER
Operated by
UNIVERSITY OF PUERTO RICO
for
U. S. ATOMIC ENERGY COMMISSION

HURRICANE PLAN P.R.N.C. Mayaguez Building

I. GENERAL

The hurricane season in Puerto Rico extends from June 1 through November 30 yearly. In order to ensure the protection of property and safety of personnel, it is necessary to prepare a plan which may be invoked in time of need.

II. NOTIFICATION OF A HURRICANE THREATENING PUERTO RICO

The United States Weather Bureau maintains a special hurricane watch during the hurricane season. The general public is given ample warning that danger exist through radio, television, and newspapers. When the warning indicate that the hurricane may strike within less than twenty four hours, the decision to invoke the hurricane plan should be made.

III. RESPONSIBILITIES FOR INVOKING THE HURRICANE PLAN

The Director will be the person responsible for making the decision to instrument the hurricane plan. If the Director is not present or cannot be contacted, then the Deputy Director will assume his responsibilities. In the event of the absence of both, Director and Deputy Director, the Associate Directors will assume the responsibilities.

- IV. WHEN THE HURRICANE PLAN IS INVOKED DURING REGULAR WORKING HOURS, THE FOLLOWING STEPS SHOULD BE TAKEN:
 - A. Condition III Hurricane Warning (Hurricane may strike within 24 hours)
 - (1) All Technical Services Section employees should report to Maintenance Shop.
 - (2) The Maintenance Engineer will assemble all materials needed to protect building and equipment.
 - (3) The employees under the supervision of the Maintenance Engineer will do the following:

- (a) Close all windows and secure all glass pannels in first and second floor of the Laboratory Building.
- (b) Remove all compressed gas tanks from the rear of building and secure them inside R-122. Remove all oxygen tanks which are connected to the rear of the Laboratory Building, and secure them inside room 122.
- (c) Clear all trash out of the mrash area. The College will supply a truck and driver, if called for, to remove all trash.
- (d) Remove all loose materials from the grounds surrounding the buildings.
- (e) Secure the front glass door with its plywood pannels.
- (f) Secure meteorology tower. Do not lower tower. Lower thermometers from tower, and remove all precision instruments from wooden shacks.
- (g) Secure all glass windows in the Annex Building with their respective plywood pannels.
- (h) Secure all air conditioning units in the Annex Building.
- (i) Clean and clear all drains of any object which may cause overflow The following shall be given particular care:
 - 1) Basement floor
 - 2) Fire pump. Room and stairway
 - 3) Laboratory Building air intake pit
 - 4) Reactor building air intake pit
 - 5) Hot waste pump pit
 - 6) Cooling towers overflow drains
- (j) Check the emergency power plant for normal operation and fill the gasoline tank.
- (k) Cover the louvers in attic floor of the Laboratory Building with plywood pannels.
- (1) Move all flowers or trees which are planted in pots into the Green

 House. The Green House will be secured according to instructions from
 the Associate Director.

- (m) Fill the reservoir water tank to its maximum level. Secure the stairway and manhole at the top of the tank.
- (n) Open and secure the main gate.
- (o) Secure all loose equipment located on the roof of the reactor and Laboratory Building. Make sure that the door leading to the roof area is locked with a pin.
- (p) Make sure all Radio Telephones are in working conditions, and that all antennas are secured.
- (q) Check all portable lanterns and first aid equipment. Have on hand extra batteries, raincoats and boots.
- (r) Secure flammable and explosive storage area.
- B. Condition II Hurricane may strike within three hours.
 - (1) A final inspection of all building and grounds will be made by the Maintenance Engineer.
 - (2) Part of the Maintenance Crew will be assigned to help the individual divisions to complete their securing of property.
 - (3) Files, desks and lockers will be moved away from the windows and all papers will be secured.
 - (4) Radioactive material will be secured under the supervision of the Health Physics Division.
 - (5) All poisonous, explosive and/or other type of dangerous material should be carefully secured under the supervision of the Health Physics Division.
 - (6) The laboratory chauffeur will secure all vehicles inside the reactor building and under the ROTC building. Make sure all vehicles have full gas tanks and are completely checked.
 - (7) All personnel not considered essential will be excused and sent home after all equipment is secured and other preventive measures are taken.

- (8) Personnel who wish to stay in the Nuclear Center during the hurricane with their families may do so, and should inform the Maintenance Engineer of his decision.
- C. Condition I Hurricane is striking the Nuclear Center area.
 - (1) A crew previously chosen by the Maintenance Engineer will remain in the main building during the hurricane.
 - (2) They will have emergency lights, plumbing and electrical equipment and other type of emergency equipment needed to face any immediate danger.
 - (3) Cold sandwiches, coffee and other cold food will be provided ahead of time.
 - (4) Air conditioning unit and other facilities in the main building will be shut off.
 - (5) If possible, frequent reports of damages or serious breakage should be issued to the Director or Deputy Director and the Associate Director through the transceiver or telephone.
- V. WHEN THE HURRICANE PLAN IS INVOKED AFTER DUTY HOURS, WEEKENDS, OR HOLIDAYS; THE FOLLOWING STEPS SHOULD BE TAKEN:

The hurricane warning will be given by the Civil Defense Authorities and the Weather Bureau through the normal means of communications.

- A. Upon notification by these agencies that the Island may be hit by a hurricane, the director or his representatives will call the following personnel:
 - (1) Division Heads
 - (2) Administrative Officer
 - (3) Maintenance Engineer
- B. Upon notification, the Maintenance Engineer will call bis Emergency Crew by telephone or by direct contact, using the fastest means available. The M. E. will notify the Deputy Director and Associate Director if he expects to be away on a week-end during the Hurricane Season. He will also designate his replacement.

The emergency group will proceed with the emergency procedures listed in conditions III and II. In addition, the M. E. will check that Division Heads

have been notified of the emergency.

- C. The Division Heads will call as many members of their staff as needed to carry out the other steps of the plan to protect property and equipment of each division.
- D. After the building and equipment are safely secured, all personnel will return home except the members of the Emergency Crew who will remain and proceed as described in Condition I. Also any other personnel, and family who wish to use the Nuclear Center Building as a shelter during the hurricane may do so.

VI. AFTER THE HURRICANE HAS STRUCK

The "All-Clear" signal will be given by the Director or his representatives after official notification issued by the Civil Defense Authorities or the Weather Bureau.

- A. All personnel will report to their regular duty area. A survey will be made to determine the extent of damage and if the area is safe for use.
- B. A detailed report of the extent of damages will be made by each Division Head to the Director's office.
- C. Engineering and maintenance problems will be reported to the Maintenance Engineer and will be handled accordingly.