

PRNC 19 PUERTO RICO NUCLEAR CENTER HURRICANE PLAN MAYAGUEZ OF PUERTO RICO UNDER CONTRACT NO. AT (40-11-1893) FOR U.S. ATOMIC ENERGY COMMISSION ---Page Break--- PUERTO RICO NUCLEAR CENTER Operated by UNIVERSITY OF PUERTO RICO FOR U.S. ATOMIC ENERGY COMMISSION. This Hurricane Plan has been revised and approved by PRNC Safety Committee. It is hereby approved and made operative as of August 7, 1965. Signed, John C. Mightier, MD, Director ---Page Break--- PUERTO RICO NUCLEAR CENTER Operated by UNIVERSITY OF PUERTO RICO for U.S. ATOMIC ENERGY COMMISSION

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

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 exists through radio, television, and newspapers. When the warning indicates that the hurricane may strike within less than twenty-four hours, the decision to invoke the hurricane plan should be made.

RESPONSIBILITIES FOR INVOKING THE HURRICANE PLAN The Director will be the person responsible for making the decision to implement 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 the Director and Deputy Director, the Associate Directors will assume the responsibilities.

WHEN THE HURRICANE PLAN IS INVOKED DURING REGULAR WORKING HOURS, THE FOLLOWING STEPS SHOULD BE TAKEN: 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 buildings and equipment. (3) The employees under the supervision of the

Maintenance Engineer will do the following: ---Page Break--- (a) Close all windows and secure all glass panels on the first and second floors of the Laboratory Building. (b) Remove all compressed gas tanks from the rest of the building and secure them inside K-12. Remove all propane tanks which are connected to the rear of the Laboratory Building, and secure them inside room 122. (c) Clear all trash out of the trash area. The College will supply a truck and driver, if called for, to remove all trash. (d) Remove all loose materials from the ground surrounding the buildings. (e) Secure the front glass door with its plywood panels. (f) Check all meteorology equipment. Do not lower the cover. Lower thermometers from the tower, and remove all precision instruments from wooden shacks. (g) Secure all windows in the Annex Building with their respective plywood panels. (h) Secure all air conditioning units in the Annex building. (i) Clean and clear all drains of any objects 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 unit 5) Waste pump pit 6) Cooling towers overflow drain. (j) Check the emergency power plant for normal operation and fill the gasoline tank. (k) Cover the louvers in the attic floor of the Laboratory Building with plywood panels. (l) Move all flowers or excess which are planted in pots into the Green House. The Green House will be secured according to instructions from the Associate Director. ---Page Break--- (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. (p) Make sure all radio telephones are in working condition, and check 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. (s) Condition if Hurricane may strike.

with the chee hours. (2) & final Inspection of #1 building and grounds will be added by the Maintenance Engineer. (2) Part of the Maintenance Crew will be assigned to help the individual Divisions to complete their securing of property. (2) Pies, 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 types 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 now considered essential will be excused and sent home after all equipment is secured and other preventive measures are taken ---Page Break--- (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 their decision. (9) Condition T= Hurricane is striking the Nuclear Center (1) & 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 types of emergency equipment needed to face any immediate danger. (3) Cold sandwiches, coffee, and other solid food will be provided ahead of time. (4) The 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 the agencies that the

Island may be hit by a hurricane, the director or his representatives will call the following personnel: (Q) Division Heads (Q) Administrative Officer (C) Maintenance Engineer B. Upon notification, the Maintenance Engineer will call his 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 one weekend 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 A.E. will check that Division Heads have been notified of the emergency. 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. 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 leave during the hurricane may do so.

AFTER THE HURRICANE HAS STRUCK

The "All-Clear" signal will be given by the Director or his representatives after official notification is issued by the Civil Defense authorities or the Weather Bureau. 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. A detailed report of the extent of damages will be made by each Division Head to the Director's office. Engineering and maintenance problems will be reported to the Maintenance Engineer and will be handled accordingly.