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NOTE: CONTINUATION OF MIZZIONZ INMEDIATE ATTACHED

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USHRC:JBLAFLEUR 3/29/79:492-7785 0ES/HET/EIC:

INNEDIATE ATHEMS, BERN INNEDIATE, BOMBAY IMMEDIATE, BONN INN-EDIATE, BRASILIA INNEDIATE, BRUSSELS INNEDIATE, COPHENHAGEN INNEDIATE,

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NUCLEAR POWER PLANT EMERGENCY SITUATION

REFERENCE: STATE 377697, STATE 75513

1. THE FOLLOHING IS SUPPLEMENTAL INFORMATION ON THE THREE MILE ISLAND INCIDENT - PLEASE NOTIFY HRC OFFICIAL CONTACTS IN HOST GOVERNMENTS AND PARIS PASS TO DOE ASST. SECRETARY BERGOLD, AT OPENING OF BUSINESS FRIDAY, AND USE, AS APPROPRIATE - IN ANSE TRING INQUIRIES -

2. THE LICENSEE, METROPOLITAN EDISON COMPANY, NOTIFIED THE NRC REGIONAL OFFICE IT APPROXIMATELY 7:45 A.M. ON MARCH 28 OF AH INCIDENT AT THEE MILE ISLAND UNIT 2 WHICH OCCURRED AT APPROXIMATELY 4:011 A.M. AT 98% POWER WHEN THE FEED PUMPS TRIPPED DUE TO A FEEDWATER SYSTEM PROBLEM. THIS RESULTED IN A TURBINE TRIP AND SUBSEQUENT REACTOR SCRAM DUE TO HIGH REACTOR COOLANT PRESSURE. A COMBINATION OF FEED PUMP OPERATION AND THE OPENING OF THE RELIEF VALVES ON THE PRESSURIZER AND THE STEAM GENERATOR CAUSED A REACTOR COOLANT SYSTEM (RCS) COOLDOWN. AT 3500 POUNDS PER SQUARE INCH PRESSURE (PSIG) - ECCS HATER INJECTION OCCURRED AUTOMATICALLY.

		URIZER - AND	
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TOTAL GOVERNMENT PRINTING OFFICE: 1976 - 628-824

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MANUALLY SHUT DOWN APPROXIMATELY S MINUTES AFTER ACTUATION.

IT WAS SUBSEQUENTLY RESUMED. THE REACTOR COOLANT PUMPS

WERE SHUT BOWN WHEN LOW MET POSITIVE SUCTION HEAD LIMITS.

WERE APPROACHED.

- 3. ABOUT 7:00 A.M., HIGH ACTIVITY WAS NOTED IN THE REACTOR COOLANT SYSTEM SAMPLE LINES CAPPROXIMATELY LOD MR/HR CONTACT READINGS). A SITE EMERGENCY WAS THEN DECLARED. AT APPROXIMATELY 7:30 A.M., A GENERAL EMERGENCY WAS DECLARED BASED ON HIGH RADIATION LEVELS IN THE REACTOR BUILDING. AT 8:30 A.M. SITE BOUNDARY RADIATION LEVELS WERE REPORTED TO NOT BE SIGNIFICANT CLESS GHAR THAN I MR/HR). THE SOURCE OF ACTIVITY WAS STATED TO BE FAILED FUEL AS A RESULT OF THE TRANSIENT, AND DUE TO A KNOWN PREVIOUS PRIMARY-TO-SECONDARY LEAK IN STEAM GENERATO? B.
 - 4. THE REGION I INCIDENT RESPONSE CENTER WAS ACTIVATED AT 8:10 A.M., AND DIRECT COMMUNICATIONS WITH THE LICENSEE AND NRC HEADQUARTERS WERE ESTABLISHED. THE RESPONSE TEAM WAS DISPATCHED AT 4:45 A.M. AND ARRIVED AT THE SITE AT 10:05 A.M.
 - 5. AT 10:45 A.M. THE REACTOR COOLANT SYSTEM PRESSURE WAS BEING HELD AT 1950 PSIG WITH TEMPERATURE AT 220 DEGREES F. IN THE COLD LEG. BY 10:45 A.M. RADIATION LEVELS OF 3 MR/HR HAD BEEN DETECTED SOO YARDS OFFSITE.
- BOWN WITH REACTOR COOLANT SYSTEM ERCST PRESSURE AT 450 PSI, USING MORMAL LETDOWN AND MAKEUP FLOW PATHS. A STEAM BUBBLE HAD BEEN COLLAPSED IN ONE OF THE REACTOR COOLANT LOOP HOT LEGS, AND SOME MATURAL CIRCULATION COOLING HAD BEEN ESTABLISHED. PRESSURIZER LEVEL HAD BEEN DECREASED TO THE HIGH RANGE OF VISIBLE INDICATION, AND SOME PRESSURIZER HEATERS WERE IN OPERATION. THE SECONDARY PLANT WAS BEING ALIGNED TO DRAW A VACUUM IN THE MAIN CONDENSER AND TO USE ONE OF THE STEAM GENERATORS FOR HEAT REMOVAL.
- 7. AS OF 3:30 P.M., A PLUME APPROXIMATELY 1/2 MILE WIDE AND READING GENERALLY 1 MR/MR WAS MOVING TO THE MORTH OF THE PLANT. THE AIRBORNE RADIOLOGICAL MONITORING TEAM HELICOPTER WAS SEING USED TO DEFINE THE LENGTH OF THE PLUME. AIRBORNE IODINE LEVELS OF UP TO 1 X 10-5 UCI/ML WERE DETECTED IN MIDDLETOWN, PENNSYLVANIA, WHICH IS LOCATED MORTH OF THE SITE.

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- 8- RADIATION LEVELS OUTSIDE THE PLANT HAVE OCCURRED DUE TO VENTING OF LOW-LEVEL RADIOACTIVE GASES FROM THE AUXILIARY BUILDINGS THROUGH THE FILTERED PLANT VENTILATION SYSTEM.
- TO THE LOCAL POPULATION FROM THE INCIDENT SO FAR HAS BEEN OF THE ORDER OF ONE PERCENT OF THE ANNUAL BOSE DUE TO NATURAL BACKGROUND.
- 20. TESTS OF ONE SAMPLE OF MILK FROM COMS WITHIN THE PATH OF THE LOW-LEVEL RADIOACTIVE PLUME APPEAR TO INDICATE THE PRESENCE OF RADIOACTIVE TODINE IN THE MILK. ALTHOUGH STILL HUNDREDS OF TIMES LOWER THAN THE LEVEL REQUIRING ANY EMERGENCY HEALTH PROTECTION MEASURES TO BE TAKEN. THESE TESTS ARE CURRENTLY BEING VERIFIED.
 - 11. MEASUREMENTS INDICATE SOME REACTOR FUEL PROBABLY HAS FAILED. A VERY ROUGH CALCULATION INDICATES ABOUT 1 PERCENT OF THE FUEL ELEMENTS ARE PROBABLY LEAKING.
 - ZE. AS OF ABOUT NOON- MARCH 29. THE ECCS SYSTEM HAD BEEN SHUT DOWN AND DECAY HEAT WAS BEING REMOVED THROUGH ONE OF THE STEAM GENERATORS. COOLDOWN IS DELIBERATELY SLOW TO AVOID DAMAGE TO EQUIPMENT. RADIOACTIVE WATER WHICH HAD BEEN EXPOSED TO THE ATMOSPHERE WITHIN AN AUXILIARY BUILDING HAS DEEN PUMPED INTO A CLOSED TANK. THIS WAS EXPECTED TO REDUCE THE OFFSITE DOSES ENANATING FROM THE PLANT VENTILLATION SYSTEM. SURVEYS TO CONFIRM THIS REDUCTION WERE BEING CONDUCTED.
 - 13. PLEASE NOTE THAT THE ABOVE IS PRELIMINARY INFORMATION.

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IMMEDIATE ROME

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