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DESIRED DISTRIBUTION		
IMMEDIATE AJHENS, BERN IMMEDIATE, BOMBAY-IMMEDIATE EDIATE, BRASILIA IMMEDIATE, BRUSSELS IMMEDIATE, COPHENHAGE	_NIGE_	IMM_
NEC RECEDENCE INFO ADDRESSES		<i>⊥</i>
PECIAL HANDLING	-	IN PLACE
USIAEA, USOECD, USEEC	7 i	AUTH.
E.O. 11652: N/A	199	DZAFTZ
TAGS: TECH		
SUBJECT: NUCLEAR POWER PLANT EMERGENCY SITUATION		1
REFERENCE: STATZ , FP477 STATZ : SOMSHERS		į
1. THE FOLLOWING IS SUPPLEMENTAL INFORMATION ON THE THREE		3
MILE ISLAND INCIDENT. PLEASE NOTIFY NRC OFFICIAL CONTACTS IN HOST GOVERNMENTS AND PARIS PASS TO DOE ASST. SECRETARY		<u> </u>
BERGOLD, AT OPENING OF BUSINESS FRIDAY, AND USE, AS APPROPRIATE, IN ANSWERING INQUIRIES.	,-	,
2. THE LICENSEE, METROPOLITAN EDISON COMPANY, NOTIFIED TH	ie lud	a
NRC REGIONAL OFFICE AT APPROXIMATELY 7:45 A.M. ON MARCH 26 OF AN INCIDENT AT THREE MILE ISLAND UNIT 2 WHICH OCCURRED		
AT APPROXIMATELY 4:00 A.M. AT 98% POWER WHEN THE FEED PUMP	25 172	
TRIPPED DUE TO A FEEDWATER SYSTEM PROBLEM. THIS RESULTED IN A TURBINE TRIP AND SUBSEQUENT REACTOR SCRAM DUE TO HIGH	1 2	
REACTOR COOLANT PRESSURE. A COMBINATION OF FEED PUMP OPERATION AND THE OPENING OF THE RELIEF VALVES ON THE	110	
PRESSURIZER AND THE STEAM GENERATOR CAUSED A REACTOR COOL	NT14	
SYSTEM {RCS} COOLDOWN. AT 1600 POUNDS PER SQUARE INCH PRESSURE {PSIG}, ECCS WATER INJECTION OCCURRED AUTOMATICAL	LY	
ALL ECCS COMPONENTS STARTED AND OPERATED PROPERLY. WATER LEVEL INCREASED IN THE PRESSURIZER, AND ECCS INJECTION WAS	1	
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Agriculture. The second MANUALLY SHUT DOWN APPROXIMATELY 5 MINUTES AFTER ACTUATION: IT WAS SUBSEQUENTLY RESUMED. THE REACTOR COOLANT PUMPS WERE SHUT DOWN WHEN LOW NET POSITIVE SUCTION HEAD LIMITS. WERE APPROACHED.

- . 17 ABOUT 7:00 A.M., HIGH ACTIVITY WAS NOTED IN THE REACTOR COOLANT SYSTEM SAMPLE LINES {APPROXIMATELY 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 {LESS GHRR THAN 1 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 GENERATOR B.
- 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 8:45 A.M. AND ARRIVED AT THE SITE AT 10:05 A.M.
  - 5. AT 10:45 A.M. THE REACTOR COOLANT SYSTEM PRESSURE WAS SEING HELD AT 1950 PSIG WITH TEMPERATURE AT 220 DEGREES F. IN THE COLD LEG. SY 10:45 A.M., RADIATION LEVELS OF 3 MR/HR HAD BEEN DETECTED 500 YARDS OFFSITE.
  - dalooo yuuola aniaa ah thalq aht .... que le: e qo aa . DOWN WITH REACTOR COOLANT SYSTEM {RCS} PRESSURE AT 450 PSI, USING NORMAL LETDOWN AND MAKEUP FLOW PATHS. A STEAM BUBBLE HAD BEEN COLLAPSED IN ONE OF THE REACTOR COOLANT LOOP HOT LEGS, AND SOME NATURAL CIRCULATION COOLING HAD BEEN ESTABLISHED. PRESSURIZER LEVEL HAD BEEN DECREASED TO THE HIGH RANGE OF VISIBLE INPICATION, 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/HR WAS MOVING TO THE NORTH OF THE PLANT. THE AIRBORNE RADIOLOGICAL MONITORING TEAM HELICOPTER WAS BEING USED TO DEFINE THE LENGTH OF THE PLUME. AIRBORNE IODINE LEVELS OF UP TO 1 X 10-8 UCI/ML WERE DETECTED IN MIDDLETOWN, PENNSYLVANIA, WHICH IS LOCATED NORTH OF THE SITE.

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- A.\_ 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 DOSE DUE TO NATURAL BACKGROUND.
- 10. TESTS OF ONE SAMPLE OF MILK FROM COWS WITHIN THE PATH OF THE LOW-LEVEL RADIOACTIVE PLUME APPEAR TO INDICATE THE PRESENCE OF RADIOACTIVE IODINE IN THE MILK, ALTHOUGH 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.
- 22. 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 BEEN PUMPED INTO A CLOSED TANK. THIS WAS EXPECTED TO REDUCE THE OFFSITE DOSES EMANATING 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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23.00

## ACTION PRECEDENCE CONTINUED:

IMMEDIATE HELSINKI
IMMEDIATE LONDON
IMMEDIATE MADRID
IMMEDIATE MANILA
IMMEDIATE MEXICO CITY
IMMEDIATE NEW DELHI
IMMEDIATE RIO DE JANEIRO
IMMEDIATE ROME
IMMEDIATE SEOUL
IMMEDIATE STOCKHOLM
IMMEDIATE TEHRAN
IMMEDIATE TEL-AVIV
IMMEDIATE THE HAGUE
IMMEDIATE THE HAGUE
IMMEDIATE TOKYO
IMMEDIATE VIENNA