4

50 - 320

UNCLASSIFIED |2

TO THE A STREET

PRESSURE IS BEING MAINTAINED SLIGHTLY NEGATIVE (-1 PSI).
AS A RESULT OF FAN COOLER OPERATION.

- 8. REACTOR COOLANT TEMPERATURES MEASURED AT FIFTY-TWO LOCATIONS AT THE OUTLET OF THE CORE HAVE CONTINUED TO COME DOWN SLOWLY. THREE OF THESE OUTLET TEMPERATURE INSTRUMENTS CONTINUE TO INDICATE ABOVE SATURATION TEMPERATURE.
- C. THE NRC STAFF WAS INFORMED BY THE LICENSEE ON FRIDAY MORNING THAT EXAMINATION OF CONTAINMENT PRESSURE DATA FOR MARCH 28 INDICATES A PRESSURE SPIKE UP TO APPROXIMATELY 30 PSI OCCURRED AT APPROXIMATELY 1:50 P.M. NRC PERSONNEL ARE EVALUATING THE POSSIBILITY THAT A HYDROGEN CHEMICAL; EXPLOSION WAS THE CAUSE OF THE CONTAINMENT INTERNAL PRESSURE SPIKE.
- D. THE REACTOR COOLANT PATH IS THROUGH ONE REACTOR COOLANT PUMP AND ONE STEAM GENERATOR. THE STEAM GENERATOR IS BEING FED BY AN AUXILIARY FEEDPUMP. SEVERAL OPTIONS FOR DEPRESSURIZING THE REACTOR AND CONTINUING COOLDOWN VIA THE RESIDUAL HEAT REMOVAL SYSTEM ARE UNDER CONSIDERATION.

 E. THE VOLUME OF NON-CONDENSIBLE GASES IN THE REACTOR VESSEL HAS BEEN ESTIMATED TO BE APPROXIMATELY LUDO TO LEDO CUBIC FEET AT LUDO PSI. THIS VOLUME IS ESTIMATED TO RESULT IN A WATER LEVEL OF SEVERAL FEET OVER THE TOP OF THE FUEL. THE RATE OF GROUTH OF THE BUBBLE IN THE REACTOR VESSEL IS ESTIMATED TO BE LESS THAN SO CUEIC FEET PER DAY AT LUDO PSI.
- 3. THE DIRECTOR OF THE OFFICE OF NUCLEAR REACTOR REGULATION, THE DIRECTOR OF THE REGION I OFFICE OF INSPECTION
 AND ENFORCEMENT AND THE DIRECTOR OF THE DIVISION OF
 OPERATING REACTORS ARRIVED AT THE SITE AT APPROXIMATELY
 2 P.M. MARCH 30, TO DIRECT NRC ACTIVITIES AT THE SITE AND
 SITE VICINITY. REPRESENARTATIVES OF HEW AND EPA ARE
 PROVIDING COORDINATION AND ASSISTANCE TO THE NRC AT
 THE INCIDENT RESPONSE CENTER.
- 4. ENVIRONMENTAL STATUS AS OF MARCH 30.
 A. AT APPROXIMATELY 3 P.M. ON MARCH 30. 1777, NRC ANALYSIS OF EIGHT VEGETATION SAMPLES FROM THE OFFSITE AREAS
 SHOWED NO DETECTABLE ACTIVITY. AT 5:30 P.M. THE PENHSYLVANIA STATE RADIATION HEALTH DEPARTMENT REPORTED THAT
 ENVIRONMENTAL WATER AND AIR SAMPLES COLLECTED IN THE
 VICINITY OF THE THREE MILE ISLAND PLANT SHOWED NO
 DETECTABLE ACTIVITY EXCEPT FOR SOME XENON-133;33 XMON135, MILK SAMPLE ANALYSIS SHOWED NO ACTIVITY LEVELS
 ABOVE 3ACKGROUND.
- 9. OFFSITE GROUND LEVEL GAMMA SURVEYS IN THE MIDDLETOUN AND GOLDSBORD AREAS BETWEEN 3:00 AND 6:00 F.M. ON MARCH BORRANGED FROM .02 TO 1 MILLIROENTGENS PER HOUR. AN AERIAL

UNCLASSIFIED

SURVEY WAS MADE BY HELICOPTER FROM 4:00 - 6:00 P.M. ON MARCH 30. THE SITE WAS SURVEYED IN CONCENTRIC CIRCLES AT APPROXIMATELY ONE MILE INTERVALS AND AT A HEIGHT OF 300 TO \$.000 FEET. THE HIGHEST RADIATION READINGS WERE OVER THE SITE AND MEASURED. A TO \$.000 MILLIROENTGENS PER HOUR. 'THE PLUME FOLLOWED THE RIVER IN A NORTHWESTERLY DIRECTION AND WAS NOT DETECTABLE BEYOND FIVE TO SIX MILES FROM THE SITE. SITE GROUND LEVEL SURVEYS CONDUCTED BETWEEN 7:30 - 8:00 P.M. RANGED FROM .01 TO 1.6 MILLIROENTGENS PER HOUR.

C. AT 4:00 P:M. MARCH 30. UPPER LEVEL WINDS WERE FROM THE SOUTHEAST. FORECAST INDICATED PRECIPITATION IN THE FORM OF THUNDERSTORMS MOVING IN AFTER 12 MIDNIGHT. MARCH 30. AT 5:00 P·M. WINDS ONSITE AT THREE MILE ISLAND WERE REPORTED AT 2 TO 3 MILES PER HOUR GENERALLY FROM EAST TO WEST.

- 5. PLANT STATUS AS OF MORNING OF MARCH 31. REACTOR COOLING CONTINUES USING THE LA MAIN REACTOR COOLANT PUMP WITH STEAM GENERATOR A STEAMING TO THE MAIN CONDENSER. CHANGES TO THIS COOLING METHOD ARE NOT PLANNED FOR THE NEAR TERM. AN OPERABILITY STATUS OF EQUIPMENT IS BEING COMPILED FOR USE AS BACKUP IN THE EVENT OF FAILURE OF EXISTING OPERATING EQUIPMENT. B. THE HYDROGEN RECOMBINER IS IN AN OPERABLE STATUS; HOWEVER, SHIELDING OF ITS PIPING AND COMPONENTS IS NOT FULLY INSTALLED AND IS PRESENTLY CONSIDERED INADEQUATE. LEAD FOR SHIELDING HAS BEEN LOCATED AND WILL BE MOVED TO THE SITE ON AN EXPEDITED BASIS. CALCULATIONS OF HYDROGEN IN CONTAINMENT SHOW THAT THE PRESENT CONCENTRA-TION IS LESS THAN 421 THE STAFF'S LIMIT ON ALLOWED CON-CENTRATION TO ENSURE AN EXPLOSIVE MIXTURE IS NOT OBTAINED. -ZONTA THANKIATHOD A HIATED OF BEAN BRIBE BAK ZTEMBTTA PHERE SAMPLE.
- C. THE WASTE GAS DECAY TANK PRESSURES WERE & PSI AT 10:15 P.M. ON MARCH 30 AND HAD BEEN RELATIVELY CONSTANT FOR ABOUT FIVE HOURS. THE TANK IS SET TO RELIEVE PRESSURE AT 100 110 PSI. THE RADIATION FIELD (LB R/HR AT CONTACT) PREVENTS RESETTING RELIEF POINTS.

 D. REACTOR COOLANT TEMPERATURES MEASURED BY INCORE THERMOCOUPLES AT SE LOCATIONS PRESENTLY SHOW ONLY ONE LOCATION ABOVE SATURATION TEMPERATURE. TEMPERATURES IN THE CORE AS MEASURED FROM OUTLET THERMOCOUPLES ARE GRADUALLY DECREASING. OTHER SYSTEM PARAMETERS ARE REMAINING STABLE.
- L. ENVIRONMENTAL STATUS AS OF MORNING MARCH 31.
 A. THREE SURVEY FLIGHTS OF ONE-HOUR LENGTH WERE CONDUCTED BEGINNING AT 9:30 P.M. ON MARCH 30. AND AT MIDNIGHT

G. 15 .- 2 10'

AND 3:00 A.M. ON MARCH 31. AT A DISTANCE OF ONE MILE FROM THE PLANT, MAXIMUM-READINGS RANGED FROM 0.5 MILLI-ROENTGENS PER HOUR {MR/HR} TO 1.5 MR/HR. AT THE 18 MILE POINT, READINGS OF 0.1 TO 0.2 MR/HR WERE OBTAINED DURING THE TWO EARLIER SURVEYS AND 0.5 MR/HR DURING THE LATEST. FLIGHTS ARE BEING MADE AT APPROXIMATELY THREE HOUR INTERVALS.

B. OFFSITE GROUND LEVEL GAMMA SURVEYS IN THE MIDDLETOWN AREA AND NORTH, BETWEEN 9:30 P.M. ON MARCH 3D AND 1:00 AM ON MARCH 3L, INDICATED LEVELS FROM 0.2 TO 0.5 MR/HR.

THESE MEASUREMENTS WERE TAKEN IN THE GENERAL DIRECTION OF THE PLUME MEASURED IN AERIAL SURVEYS.

AT 3:00 P.M. ON MARCH 29, (PRIOR TO THE RELEASES OF MARCH 3D; THE LICENSEE RECOVERED THERMOLUMINESCENT DOSIMETERS FROM 17 FIXED FOSITIONS LOCATED WITHIN A 15 MILE RADIUS OF THE SITE. THE DOSIMETERS HAD BEEN IN PLACE FOR THREE MONTHS AND HAD BEEN EXPOSED FOR ABOUT 32 HOURS AFTER THE INCIDENT. ONLY TWO DOSIMETERS SHOWED ELEVATED EXPOSURES ABOVE NORMAL LEVELS. THE HIGHEST READING OSSERVED WAS ON THREE MILE ISLAND, D.4 MILES NORTH OF THE REACTOR AT THE NORTH WEATHER STATION. AT THIS LOCATION, THE GUARTERLY ACCUMULATED EXPOSURE WAS AL MR. APPROXINATERLY 65 RR ABOVE THE NORMAL GUARTERLY EXPOSED RATE. THE OTHER HIGH EXPOSURE WAS DESERVED AT NORTH BRIDGE. D.7 MILES NNE OF THE REACTOR AT THE ENTRANCE TO THE SITE. AT THIS LOCATION, THE TOTAL QUARTERLY ACCUMU-LATED EXPOSURE WAS 37 MR OR ASSESSMENTALLY 22 MR ASSOC THE NORMAL QUARTERLY EXPOSURE RATE.

D. DURING THE EVENING MILKING HOURS ON MARCH BD. MILK...

SAMPLES WERE COLLECTED BY THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES AT THE FOLLOWING LOCATIONS: HARRISBURG (2 SITES), VORK, MIDDLETOWN, BAINBRIDGE, ETRES. ANALYSES SHOWN ON CHURCH FADIOLOGINE. THE COWS HAD BEEN FED ON CHORS HAD BEEN OUTSIDE FOR EXERCISE.

E. THE PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL RESOURCES ALSO COLLECTED WATER SAMPLES AT FILTRATION PLANTS AT COLUMBIA, PA (FOR THE CITY OF LANCASTER) AND WRIGHTSVILLE ON MARCH 3D IN THE MORNING AND EARLY AFTERNOON. BOTH SAMPLE POINTS ARE DOWNSTREAM OF THREE MILE ISLAND. NO DETECTABLE ACTIVITY WAS FOUND.

- 7. ADDRESSEES REGUESTED TO NOTIFY NRC OFFICIAL CONTACTS IN HOST GOVERNMENTS {REF.A-GRED} AND DOE ASSISTANT SECRETARY REGOLD ASAP DURING DAYLIGHT HOURS, AND USE AS APPROPRIATE IN ANSWERING INQUIRIES.
- 5. NOTE INFORMATION IS PRELIMINARY AND NOT FULLY EVALUATED. YY

ACTION LINE CONTINUED: -

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