NOTE: CONTINUATION
OF STATIONS ATTACHED

UNCLASSIFIED

USNRC:JDLAFLEUR 4/5/79: 492-7788 0ES/NET/EIC: DHCOOPER

EUR: RPE: WBARMON (INFO)

NEA/RA: HENGELBRECHT (INFO)

IO/SCI: AJILLSON (INFO)

FA/RA: PCLEVELAND (INFO)

ARA: L/N: GJONES/JHENNEKE {INFO}
RJBETTAUER {INFO}

IMMEDIATE ATHENS, BERN IMMEDIATE, BOMBAY IMMEDIATE BONN IMMEDIATE, BRASILIA IMMEDIATE, BRUSSELS IMMEDIATE, BUENOS AIRES IMMEDIATE,

USIAEA, USOCO, USEC - PASS TO PARA 1 PARTIES ASAP

E.O. 11652: N/A

TAGS: TECH,

SUBJECT: THREE MILE ISLAND REACTOR STATUS

REF: A-0221

L. ADDRESSEE'S REQUESTED TO PASS FOLLOWING INFORMATION TO OFFICIAL NRC CONTACTS IN HOST GOVERNMENTS AND TO VISITING SENIOR U.S. OFFICIALS, ASAP, DURING DAYLIGHT HOURS, AND TO USE AS APPROPRIATE IN ANSWERING INQUIRIES. PLEASE NOTE THIS INFORMATION IS PRELIMINARY AND NOT FULLY EVALUATED.

2. PLANT STATUS

A. REACTOR PRESSURE REMAINS NEAR 1000 PSI WITH BULK CORE COOLANT INLET AND OUTLET TEMPERATURES APPROXIMATELY 280 DEGREES F. CORE THERMOCUPLE READINGS ARE RELATIVELY UNCHANGED AND INDICATE A MAXIMUM TEMPERATURE OF 462 DEGREES F. WHICH IS WELL BELOW SATURATION TEMPERATURE FOR THE PRESENT REACTOR PRESSURE. THREE THERMOCOUPLE READINGS REMAIN ABOVE 400 DEGREES F. THE NUMBER OF THERMOCOUPLE READINGS THAT ARE BEING MONITORED HAS BEEN REDUCED TO 30.

3. CONTAINMENT ATMOSPHERE MEASUREMENTS INDICATE ABOUT 2% HYDROGEN. ONE HYDROGEN RECOMBINER IS IN OPERATION, WITH ANOTHER UNIT ON STANDBY.

C. A HEISE PRESSURE GAUGE HAS BEEN INSTALLED TO PROVIDE 9 199

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AN ALTERNATE METHOD OF DETERMINING THE PRESSURIZER LEVEL BY MONITORING THE STEAM SPACE PRESSURE AND WATER SPACE PRESSURE IN THE PRESSURIZER. TESTING PROCEDURES ARE UNDER REVIEW. THE PRESSURIZER IS BEING VENTED TO THE CONTAINMENT FOR ABOUT 15 MINUES EVERY L-& HOURS.

D. PLANS FOR USE OF THE ROBOT TO OBTAIN A PRIMARY SYSTEM SAMPLE HAVE BEEN DEVELOPED.

2. ENVIRONMENTAL STATUS

PRELIMINARY ANALYSIS BY FDA OF 16 MILK AND MISCELLA-MEOUS FOOD PRODUCTS COLLECTED ON APRIL 3, 1979, SHOWEN NO DETECTABLE IODINE CONCENTRATIONS IN 12 SAMPLES AND IODINE RANGING FROM 12-18 PCI/L IN 4 MILK SAMPLES. THE STATE OF MARYLAND REPORTED ON APRIL 4, 1979 THE RESULTS OF ANALYSIS OF 12 MILK SAMPLES COLLECTED FROM 3 TO 20 MILES FROM THE SITE. ALL SAMPLES WERE REPORTED AS LESS THAN THE MINIMUM DETECTABLE ACTIVITY {MDA}. ONE PROCESS MILK SAMPLE FROM HARRISBURG ALSO WAS REPORTED BY THE STATE OF MARYLAND AS LESS THAN MDA. THREE WATER SAMPLES, TWO AT CONEWAGO AND ONE FROM HOLTWOOD DAM, WERE REPORTED AS LESS THAN MDA BY THE STATE OF MARYLAND. FDA COLLECTED S OTHER MILK SAMPLES ON APRIL 3, 1979, TWO OF WHICH SHOWED IDDINE CONCENTRATIONS OF 12 AND 17 PCI/L. ONE SHOWED NO DETECTABLE IDDINE AND THERE ARE NO RESULTS FOR THE OTHER TWO SAMPLES. ONE OF THESE SAMPLES SHOUED A CESIUM CONCENTRATION OF 13 PCI/L; THERE ARE NO CESIUM RESULTS FOR THE OTHER FOUR. THE STATE OF PENNSYL-VANIA ANALYZIZ OF 12 MILK ZAJOMAZ JO ZIZYJANA AINAV ON HIW EL 1/139 PL TA BNIDDI HIW BNO DBWOLL PFPL DETECTABLE IODINE, AND 1 WITH NO RESULT. FOUR SHOWED CESIUM LEVELS RANGING FROM 10-26 PCI/L AND THERE ARE NO RESULTS FOR THE OTHER 11 SAMPLES. ALL OF THE SAMPLES COLLECTED BY THE STATE AND FDA WERE SPLIT SAMPLES, I.E., SHARED TO OBTAIN INDEPENDENT RESULTS. CONTINUOUS GROUND LEVEL RADIATION SURVEYS PERFORMED ON APRIL 4, 1979 BY THE NRC SURVEY TEAMS ON THE EAST AND WEST SIDES OF THE SUSQUEHANNA RIVER FROM A DISTANCE OF 4 MILES NORTH TO 4 MILES SOUTH OF THI SHOWED RADIATION LEVELS AVERAGING LESS THAN O.O. MR/HR ON THE EAST SIDE OF THE RIVER AND O.O. TO O.O. HYNN ON THE WEST SIDE OF THE RIVER. PREVALENT WIND DIRECTION DURING THE DAY WAS FROM THE EAST. SIX SURVEY FLIGHTS WERE PERFORMED ON APRIL 4, 1979 AT 0001, 0300, 0600, 0000, 1200 AND 1522 HOURS. THE FLIGHTS IDENTIFIED THE PLUME TO BE IN THE SECTIONS OF 200 DEGREES AND 300 DEGREES. THE MAXIMUM RADIATION LEVELS WERE DETECTED DURING THE 0600 FLIGHT DURING WHICH LEVELS OF 1.2 MR/HR WERE DETECTED USING PORTABLE SURVEY METERS.

THE 1522 FLIGHT USED NORMALLY INSTALLED ARMS INSTRUMENTA-

EMIGSVILLE 0.02

TION AND MEASURED RADIATION LEVELS OF ABOUT 0-1 MR/MR {ABOUT 2 TUOBA DACKGROUDA AT 1 MILE DISTANCE AND ABOUT 0-0 MR/MR 4 CMUORDAS AT 2 MILES DISTANCE.

- E. ON APRIL 4, A 40-MINUTE AIR SAMPLE TAKEN ABOUT DUOD

 MEAR YORK HAVEN, AND A GOMENTAME STUDING A GOMEN AS A GOMENTAME SAMPLE TAKEN ABOUT LICED IN GOLD AND A GOMENTAME SAMPLE TAKEN AND TO SAMPLE TAKEN AND
- F. DOSE RATES IN POPULATED AREAS AS MEASURED BY NRC THERMOLUMINESCENT DOSIMETERS {TLDS} SHOWED ONLY MINOR CHANGES FROM THE PREVIOUS DAY. MINOR FLUCTUATIONS ARE EXPECTED AT THESE LOW DOSE RATES. FOLLOWING ARE THE EXPOSURE RATES FOR PREVIOUSLY REPORTED LOCATIONS:

 DOSE RATE {MILLIROENTGENS PER HOUR} 4/4/79

 MIDDLETOWN 0.03

 GOLDSBORO 0.03

 LEWISBERRY 0.03
- 4. OCCUPATIONAL RADIATION EXPOSURES.
- A. THREE OCCUPATIONAL RADIATION DOSES IN EXCESS OF THE REGULATORY LIMIT OF 3 REMS PER CALENDAR QUARTER HAVE BEEN CONFIRMED. ALL THREE EXPOSURES WERE LICENSEE PERSONNEL AND WERE APPROXIMATELY 4 REMS {THIS INCLUDES THE TWO EXPOSURES REPORTED IN PNO-79-578}.
- 5. TO DATE ON APRIL 4, 1979, THERE HAVE BEEN 12 INDIVIDUALS WITH DOSES GREATER THAN 2 REMS BUT LESS THAN 3 REMS.
 THREE DOSES ARE FOR THE PERIOD JANUARY 1 TO APRIL 4, 1979,
 BUT IT IS BELIEVED THE MAJORITY OF EXPOSURE WAS RECEIVED
 AS A RESULT OF THE INCIDENT. MORE SPECIFIC OCCUPATIONAL
 EXPOSURE DATA IS EXPECTED TO BE AVAILABLE IN THE NEAR
 FUTURE.
- 5. INDUSTRIAL WASTE TREATMENT SYSTEM (IWTS).
 AS OF OSOO ON APRIL 5, 1979, THE IWTS SUMP WAS 74% FILLED
 WITH ABOUT 100,000 GALLONS OF CAPACITY STILL AVAILABLE.
 THE STATE OF PENNSYLVANIA APPROVED RELEASE OF MATERIAL
 FROM THE IWTS THAT DOES NOT EXCEED PERMISSIBLE VALUES.
 NO RELEASES HAVE BEEN MADE AS OF OSOO. YY

ACTION PRECEDENCE CONTINUED:

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