50-320

- -- NOTE: CONTINUATION OF MIZZIONS EMMEDIATE ATTACHED

USNRC: UDLAFLEUR
4/2/77: 492-7766
0ES/NET/EIC: DHCOOPER

EURZRPE:

WBARMON (INFO) | EAVRA: PCLEVELAND (INFO) | MS.GELERACHT (INFO) | ARA: MR.SZNIGG/MR.HENNEKE(INFO) | AUILLSON (INFO) | L/N: RJEETTAUER (INFO) |

10/SCT: CHIA AUILLSON CINFOR LINE 

IMMEDIATE ATHENS, BERN IMMEDIATE, BOMBAY IMMEDIATE, BONN IMM-EDIATE, BRASILIA IMMEDIATE, BRUSSELS IMMEDIATE, COPENHAGEN IMMEDIATE

USIAEA, USOECD, USEEC PASS TO PARA I PARTIES ASAP

E.O. 11652: N/A

TAGS: TECH

SUBJECT: THREE MILE ISLAND REACTOR STATUS

REF: A-DEEL STATE

- 4. ADDRESSEES REQUESTED TO PASS FOLLOWING INFORMATION TO OFFICIAL MRC CONTACTS IN MOST GOVERNMENTS AND TO VISITING SENIOR U.S. OFFICIALS, ASAP, DURING DAYLIGHT HOURS, AND TO USE AS APPROPRIATE IN ANSWERING INQUIRIES. PARAS 1-6 ARE PRELIMINARY, NOT YET VERIFIED.
- . LE HORAM .. M. 9 DE: 2 TO ZA ZHTATZ THANG
- A. NO CHANGE IN THE METHOD OF COOLING FROM LAST REPORT. REACTOR COOLANT TEMPERATURES MEASURED BY INCORE THERMOCOUPLES. AT PRESENT NOWE OF THE TEMPERATURE READINGS IS ABOVE SATURATION TEMPERATURE FOR THIS PRESSURE (554 DEGREES F.D. SYSTEM PARAMETERS REMAIN STABLE. THERE HAS BEEN A SLIGHT DROP IN PRESSURIZER LEVEL FROM 215 TO 181 INCHEE.
- E. EFFORTS CONTINUE TO COMPLETE INSTALLATION OF COMPONENTS AND FIFING ON THE HYDROGEN RECOMPINER. APPROXIMATELY 220 TONS OF LEAD ENIGLDING HAS ARRIVED, OR IS ON THE WAY, TO

790405 6 1919 14161436FIED

THE TITE: LEAD THIELDING IS BEING INSTALLED AROUND THE RECOMBINER. A DECISION TO USE THE RECOMBINER HAS NOT YET BEEN MADE. THO TAMPLES OF CONTAINMENT ATMOSPHERE HAVE BEEN ANALYZED WHICH SHOW HYDROGEN CONCENTRATIONS OF 1.7 AND 1.0%.

- C. EFFORTS CONTINUE TO ESTIMATE THE VOLUME OF THE NONCONDENSIBLE GAS BUBBLE ABOVE THE CORE. LICENSEE CALCULATIONS OF THE SIZE OF THE BUBBLE AT 2:40 P.M. WAS 650 CUBIC
  FEET AT 675 PSIG. AT ABOUT 4:20 P.M. THIS WAS RECALCULATED BY THE LICENSEE TO BE 523 CUBIC FEET AT 675
  PSIG. THIS IS BEING FURTHER EVALUATED.
- . E HORAM .. M. Q GE : 3 TO ZA ZUTATZ LATMENTAURO 31.

THREE FLIGHTS WERE CONDUCTED AT ABOUT 5:00 A.M., 9:00 A.M., AND 32:00 NOON ON MARCH 31. ALL FLIGHTS REFLECTED A
RATHER STABLE SITUATION. MAXIMUM READINGS IN THE PLUME
WERE FROM 3.5 TO 2.5 MILLIROENTGENS PER HOUR (MR/HR) AT
A DISTANCE OF ONE MILE FROM THE PLANT, FROM 0.5 TO 1.0
MR/HR OUT TO 7 MILES, AND 0.1 TO 0.2 MR/HR SEYOND 10 MILES.
THE PLUME WIDTH 15 ABOUT 1-1/2 TO 2 MILES. NO RADIOIODINES
HAVE BEEN DETECTED IN THE PLUME. OFFSITE GROUND LEVEL
GAMMA SURVEYS PERFORMED IN THE PREDOMINANT UIND DIRECTION
INDICATED MAXIMUM LEVELS OF ABOUT 2 MR/HR AT ABOUT 1/2
MILE FROM THE SITE IN THE DIRECTION OF THE PLUME. THE
UIND WAS FROM THE SZW AT THE TIME OF THE SURVEY FLIGHTS.
AT ABOUT 1/2 P.M. THE WINDS SHIFTED AND ARE NOW BLOWING IN
A SOUTHEASTERLY DIRECTION.

- 4. A PLANT STATUS AS OF 7:00 A.M. APRIL 1.
- A. THERE HAS BEEN NO SUBSTANTIAL CHANGE IN THE PRIMARY SYSTEM TEMPERATURE AND PRESSURE. INCORE THERMOCOUPLES CONTINUE TO SHOW A DOWNWARD TREND.
  - B. ACTIONS ARE UNDERWAY TO VENT RADIOACTIVE GASES FROM THE WASTE GAS DECAY TANK TO THE CONTAINMENT BUILDING. THIS WILL BE PERFORMED THROUGH A TEMPORARY PIPELINE.
- C. THE LICENSEE PLANS TO HOOK UP AND SHIELD TWO RECOMBINERS PRIOR TO INITIATING RECOMBINING OPERATIONS TO REDUCE THE CONCENTRATIONS OF MYDROGEN IN THE CONTAINMENT. THE LICENSEE ESTIMATES THAT IT WILL REQUIRE ABOUT 24 HOURS BEFORE THE RECOMBINERS WILL BE OPERATIONAL.
  - D. CALCULATED VALUES BY THE LICENSEE OF THE VOLUME OF NORCONDENSIBLE GASES ABOVE THE CORE CONTINUE TO VARY.

ENVIRONMENTAL STATUS AS OF 7:00 A.M. APRIL L.

SURVEY FLIGHTS AT APPROXIMATELY 3-HOUR INTERVALS WERE CONTINUED ON MARCH ED AND THE EARLY HOURS OF APRIL 1. SURVEY REBULTS REFLECTED STABLE CONDITIONS. MAXIMUM READINGS WERE 2 MR/HR IN THE PLUME AT A DISTANCE OF D MILE FROM THE PLANT. THE PLUME WIDTH HAS BEEN ABOUT 1.5 MILES OUT TO A DISTANCE OF 10 MILES. AT A DISTANCE OF 10 MILES. PLUME READINGS WERE D.15 MR/HR. MILK WAS COLLECTED AT WINE STATIONS ON MARCH BL: NO RADIOACTIVE IODINE MAS DETECTED. OFFSITE GROUND LEVEL GAMMA SURVEYS PERFORMED IN THE PREDOMINANT WIND DIRECTION SHOULD A MAXIMUM OF D.6 MR/HR AT SCO YARDS FROM THE PLANT TO A LOU OF D.D. MR/HR AT DISTANCES OF 2 TO 3 MILES AN EXCEPTION WAS NOTED DURING THE COLLECTION OF A SAMPLE FROM THE WASTE GAS DECAY TANK WHEN GAMMA LEVELS OF 3 MR/HR WERE OBSERVED AT A DISTANCE OF SOO YARDS EAST OF THE PLANT

5. OTHER INFORMATION. ANALYSIS OF A SAMPLE OF PRIMARY COOLANT INDICATED THAT THE PRINCIPAL ISOTOPES RELEASED FROM THE FUEL WERE-LODINE. CESIUM AND NOBLE GASES. A PRELIMINARY EVALUATION OF THE ANALYTICAL RESULTS RELATED TO THESE MORE VOLATILE ISOTOPES INDICATES HIGH FUEL TEMPERATURES EXISTED, PERHAPS FOR EXTENDED PERIODS. HOWEVER, RATIOS AMONG ISOTOPES INDICATE THAT THE LESS VOLATILE ISOTOPES, SUCH AS STRONTIUM, WERE RELEASED TO THE COOLANT IN QUANTITIES CHARACTERISTIC OF RELEASES FROM THE GAPS OF THE FUEL AND, THEREFORE, BASED ON THIS PRELIMINARY EVALUATION, MEUTING OF THE FUEL IS NOT CONSIDERED LIKELY TO HAVE OCCURRED. LEND UNVERIFIED

INFORMATION. ?
7. THE WHITE HOUSE HAS ANNOUNCED THAT PRESIDENT CARTER PLANS TO VISIT MIDDLETOWN, PENNSYLVANIA, NEAR THREE MILE ISLANT, DURING THE AFTERNOON OF APRIL 1. HE WILL BE ACCOMPANIED BY GOVERNOR THORNBURGH OF PENNSYLVANIA.

> 5. THE FOLLOWING IS QUOTED FROM APPRESS CONFERENCE HELD BY NRC CHAIRMAN HENDRIE, MARCH 31.5

GUESTION: COULD YOU EXPLAIN TO US WHETHER YOUR FEELING IS THAT AN EVACUATION WOULD HAVE TO TAKE PLACE WHEN YOU REACH THE CRISIS, WHEN YOU HAVE TO MAKE THE MOVE THAT BOULD SOLVE THIS BUBBLE PROBLEM? SEAT STATE THE STATE OF THE STATE OF

CHAIRMAN HENDRIE: I WOULD REGARD IT AS CERTAINLY A POSSIBILITY AND ONE THAT WE WILL HAVE VERY MUCH IN MIND

4 ...

IN CONSIDERING THAT STEP. WE WILL BE DISCUSSING IT. OF COURSE, WITH THE STATE PEOPLE, WITH THE COVERNOR AND SO ON.

IT MAY TURN OUT TO BE A PRÜDENT PRECAUTIONARY MEASURE IN THEEVENT US FEST THAT THE PROCESS OF GETTING RID OF THAT GAS BUBBLE HAS SOME UNCERTAIN ELEMENTS IN IT.

I GUESS I WOULD COMMENT WITH REGARD TO THE EVACUATION
SITUATION IN GENERAL THAT WHILE THE REACTOR IS STABLE AT
THE MOMENT, AND APPEARS WELL SITUATED TO REMAIN SO FOR
THE NEAR TERN, THAT IT IS OUR JUDGMENT--AND WE HAVE
RECOMMENDED TO THE STATE PEOPLE AND TO THE FEDERAL PEOPLE
CONNECTED WITH EMERGENCY PLANNING--THAT ALL OF THE
EMERGENCY PLAN STAFF SHOULD REMAIN ON AN ALERT STATUSWE HAVE JUST IN MIND THAT IF THE CONDITIONS AT THE PLANT
SHOULD CHANGE, WE ARE IN EFFECT KEEPING THE NEED FOR
PROTECTIVE ACTIONS ON THE PUBLIC BEHALF AS A SORT OF JUST
CONSTANT AND CONTINUING CONSIDERATION IN OUR --

QUESTION: HOW WIDE AN EVACUATION WOULD THAT BE?

QUESTION: YES, IF YOU DECIDE TO EVACUATE, HOW MANY ARE YOU THINKING ABOUT? HOW BIG AN AREA ARE YOU THINKING ABOUT WHEN YOU GET TO THAT STEP?

CHAIRMAN HENDRIE: SHOULD EVACUATION SE A RECOMMENDED COURSE, I HOULD EXPECT THAT IT HOULD BE OUT TO DISTANCES PROBABLY BETWEEN AND EN MILES, AND IN A RUADRANT HRICH HOULD BE IN A DOUNDIND DIRECTION. THAT IS A CONCERN THAT YOU'RE TRYING TO MEET, IN AN EVACUATION THERE IS THE POSSIBILITY OF A SIGNIFICANT RELEASE FROM THE PLANT, A GASEOUS RELEASE. THAT RELEASE THEN, OF COURSE, MOVES DOUNDIND, AND PEOPLE WHO ARE UPHIND ARE IN GOOD SHAPE, AND PEOPLE HOW ARE DOUNDIND HOULD BE BETTER OFF TO BE OUT OF ITS PATH. CEND OF PRESS CONFERENCE GUOTE.)

## ACTION PRECEDENCE CONTINUED:

IMMEDIATE HELSINKI
IMMEDIATE LONGON
IMMEDIATE MADRID
IMMEDIATE MANILA
IMMEDIATE MEXICO CITY
IMMEDIATE NEW DELHI
IMMEDIATE PARIS
IMMEDIATE RIO DE JANEIRO
IMMEDIATE ROME
IMMEDIATE SEGUL
IMMEDIATE SEGUL
IMMEDIATE TEHRAN
IMMEDIATE TEL-AVIV
IMMEDIATE THE HAGUE
IMMEDIATE TOKYO
IMMEDIATE VIENNA