



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

MAY 18 1979

MEMORANDUM FOR: L. V. Gossick, EDO
R. Mattson, NRR
A. Oxforth, IE
D. Thompson, IE
B. Grimes, NRR
R. O. Meyer, NRR
G. Holahan, NRR
C. Heltemes, NRR
T. Cox, NRR
I. Villalva, NRR
P. O'Reilly, NRR
W. Kane, NRR
H. Collins, SP
S. Chilk, SECY

FROM: J. D. Lafleur, Jr., Deputy Director, IP

SUBJECT: FINAL INFORMATION FOR MAY 21-22 TMI BRIEFING PARTICIPANTS

Attached for all speakers at the May 21-22 TMI briefings for the international community are (1) the final meeting agenda and (2) a list of topics delivered today by the British Embassy. You are requested, as much as is feasible, to at least touch on the areas identified, as they fall within the scope of your presentations.

for Joseph D. Lafleur, Jr.
Deputy Director
Office of International Programs

Attachments:
As stated

cc w/attachments:
F. Miraglia, NRR
J. Shea, IP

9103210302 910131
PDR FOIA
DEKOK90-124 PDR

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9103210302

AGENDA

NRC Program on Three Mile Island Incident

May 21-23, 1979

Room 6507, Maryland National Bank Building

<u>Activity/Date/Time</u>	<u>Topic</u>	<u>NRC Representative(s)</u>
Briefings, Monday, May 21, 1979		
9:00 a.m.	Welcome and Administrative Details	
9:30 a.m.	Description of B&W Nuclear Steam Supply System	Arthur Oxforth, PWR Engineer (Instructor), Career Management Branch, Office of Inspection and Enforcement (IE)
10:30 a.m.	Accident Chronology	Dudley Thompson, Executive Officer for Operations, IE
12:00 noon	Lunch Break	
1:30 p.m.*	Status of TMI-2; Radiological Releases; Sampling Programs	Brian K. Grimes, Assistant Director for Engineering and Projects, Division of Operating Reactors (DOR), Office of Nuclear Reactor Regulation (NRR)
2:15 p.m.*	TMI-2 Core Conditions/Analysis	Ralph O. Meyer, Section Leader, Core Performance Branch, Division of Systems Safety (DSS), NRR
2:45 p.m.*	TMI-2 Thermal Hydraulics	Gary M. Holahan, Analysis Branch, DOR, NRR
3:15 p.m.	Effects of TMI-2 on Other B&W Plants	Clemens J. Heltemes, Jr., Chief, Standardization Br., Div. of Project Management (DPM) Thomas H. Cox, Standardization Branch, DPM, NRR

* All 1:30-3:15 p.m. speakers plus an IE representative will be available throughout the asterisked sessions to answer questions.

<u>Activity/Date/Time</u>	<u>Topic</u>	<u>NRC Representative(s)</u>
Briefings, May 22, 1979		
8:30 a.m.	Effects of TMI-2 on All Other Light Water Reactors: CE, <u>W</u> , and GE-BWRs	Ignacio Villalva, Patrick D. O'Reilly, and William F. Kane, Standardization Branch, DPM
10:15 a.m.	General Provisions of Emergency Plans and Emergency Response at TMI-2	Harold E. Collins, Asst. Director for Emergency Preparedness, Office of State Programs
12:30 p.m.	Lunch Break	
2:00 p.m.	Question and Answer Session	Roger J. Mattson, Director, Division of Systems Safety, NRR <u>and</u> Dudley Thompson, Executive Officer for Operations, IE

Field Trip, Wednesday, May 23, 1979

8:15 a.m.	Bus arrives at NRC Phillips Building, 7920 Norfolk Avenue, Bethesda
8:30 a.m.	Bus departs for Middletown, Pa.
11:30 a.m.	Bus stops briefly in Middletown for lunch
1:00 p.m.	Briefings at TMI Observation Tower: - Status at Site: Plant Modifications in Progress (1/2 hour) - Pennsylvania State Activities (1/2 hour) - Cleanup Operations (1/2 hour)
3:00 p.m.	Viewing of TMI Site
3:30 p.m.	Bus departs Middletown
5:30 p.m.	Bus stops en route
7:45 p.m.	Bus arrives at Phillips Building, Bethesda

IF THE PERMITS, IT WOULD BE INTERESTING TO HEAR N.R.C
VIEW OF FUTURE ACTIONS AND EFFECTS OF THIS INCIDENT ON FOR
EXAMPLE -

1. CLEAN UP AND CONSEQUENT WAST DISPOSAL QUESTIONS.
2. REGULATORY POSITION, IN PARTICULAR IMPACT ON 10 CFR 50 AND GUIDES ETC. IF ANY.
3. EFFECT OF THIS INCIDENT ON P.W.R. SAFETY RESEARCH PROGRAMME.

FM: D R H FRYER
NII THAMES HOUSE NORTH
HEALTH AND SAFETY EXECUTIVE
LONDON

MR J S MACLEOD NII THAMES HSE NORTH

MANY THANKS INDEED FOR ALL THE ARRANGEMENTS YOU ARE MAKING FOR OUR VISIT NEXT WEEK, WE ARE PARTICULARLY GLAD THAT IT WILL BE POSSIBLE TO VISIT THREE MILE ISLAND.

I WOULD LIKE TO BRING THE FOLLOWING POINTS TO YOUR ATTENTION :-

1. AT OUR LUNCHTIME DISCUSSION YOU SAID IT WOULD BE HELPFUL IF YOU COULD BE PROVIDED WITH A LIST OF TOPICS OR

QUESTIONS OF INTEREST TO US. I ASSUME THAT THE NRC PRESENTATIONS WILL COVER FULL DETAILS OF THE ACCIDENT SEQUENCE RADIATION DOSE LEVELS ETC. AND IT CAN BE EXPECTED THAT MANY QUESTIONS WILL ARISE. WE ARE PREPARING A DETAILED QUESTIONNAIRE THIS WEEK WHICH I CAN SHOW YOU, AND IF APPROPRIATE NRC STAFF, FIRST THING ON MONDAY MORNING. ADDITIONALLY THE FOLLOWING ARE WIDER GENERAL TOPICS WHICH ARE OF IMPORTANCE TO US IN THE FUTURE FOR ASSESSING THE SUITABILITY OF THE PWR FOR THE CEGB, OR FOR REVIEWING OUR OWN EMERGENCY PLANS.

- A. OPERATING PHILOSOPHY, FLEXIBILITY AND CONSTRAINTS APPLIED TO OPERATORS, REASONS FOR APPARENT FAILURE OF MAINTENANCE AND OPERATING PROCEDURES, AND VIEWS ON REDUCING RISK OF SUCH FAILURES IN FUTURE.
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- B. RESPONSE OF OPERATORS TO INFORMATION DISPLAY AND ABILITY TO INTERPRET PLANT CONDITIONS, PARTICULARLY DURING FIRST FEW HOURS. NRC INFORMATION NOT GOOD IN THIS AREA.
- C. SUPPORTING TECHNICAL RESOURCES PROVIDED DURING ACCIDENT PERIOD.
- D. IMPLICATIONS OF THE DESIGN AND OPERATING PROCEDURES FOR USERS AND VENDORS OF PWR PLANTS GENERALLY, AND WITH PARTICULAR REFERENCE TO :
 - (A) THIS PARTICULAR ACCIDENT SEQUENCE.
 - (B) SMALL LOCAS
 - (C) FEED WATER TRANSIENTS
- E. THE IMPLICATIONS OF THE ACCIDENT ON :--
 - (A) FUTURE LICENSING REQUIREMENTS.
 - (B) PROPOSED SAFETY RELATED R AND D PROGRAMME.
 - (C) CURRENT OPERATIONAL PLANTS.
- F. EXPERIENCE OF RELATIONSHIP BETWEEN NRC AND THE OPERATORS DURING THE ACCIDENT, AND ANY IMPROVEMENTS FOR THE FUTURE.
- G. CURRENT VIEWS ON REQUIREMENTS FOR PUBLIC EMERGENCY PLANS, AND RELATIONSHIP BETWEEN STATE AUTHORITIES, UTILITIES AND NRC. CRITERIA FOR ADVISING ON EVACUATION OF LOCAL PEOPLE.

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- H. ADEQUACY OF THE HEALTH PHYSICS ARRANGEMENTS FOR MONITORING OF RADIOACTIVE RELEASES DURING EARLY STAGES OF THE ACCIDENT AND ANY DIFFICULTIES EXPERIENCED. PROBLEMS OF ASSESSING RADIATION DOSE TO THE POPULATION IN DIFFERENT AREAS.
 - I. REVIEW OF PUBLIC RELATIONS PROBLEMS AND HANDLING OF THE NEWS MEDIA. EXPERIENCE OF SETTING UP AN INFORMATION CENTRE.
 - J. ASSESSED EFFECT LOCALLY/NATIONALLY WITH RESPECT TO PUBLIC ACCEPTANCE OF NUCLEAR POWER.
 - K. COMMUNICATION PROBLEMS, ADEQUACY OF TELEPHONE SYSTEM AND ANY NEED FOR ADDITIONAL FACILITIES IN FUTURE.
- I AM REQUESTING OTHER MEMBERS OF THE UK TEAM TO LET ME KNOW IF THEY HAVE ANY ADDITIONAL TOPICS OR QUESTIONS, AND I WILL KEEP YOU ADVISED.



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G/M

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NOTE: CONTINUATION
OF ACTION LINE
ATTACHED

USNRC: JDLAFLEUR
5/22/79: 492-7131
OES/NET/EIC: DHCOOPER

EUR/RPE:	WBARMON {INFO}	EA/RA:	PCLEVELAND {INFO}
NEA/RA:	HENGELBRECHT {INFO}	ARA:	GJONES/JHENNEKE {INFO}
IO:SCI:	AJILLSON {INFO}	L/N:	RBETTAUER {INFO}

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

USIAEA, USOECB, USEEC - PASS TO PARA 1 PARTIES ASAP

E.O. 12852: N/A

TAGS: TECH,

SUBJECT: NUCLEAR INCIDENT AT THREE MILE ISLAND

REF: A-0221

1. ADDRESSEES 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.

2. PLANT STATUS AS OF 7 AM MAY 21.
A. THE AVERAGE COOLANT TEMPERATURE IS BEING MAINTAINED AT
170 DEGREES F BY NATURAL CIRCULATION. PRESSURE IS ABOUT
300 PSI. STEAM IS BEING ADMITTED TO THE MAIN CONDENSER
THROUGH THE TURBINE BYPASS VALVES FROM THE A STEAM GENER-
ATOR. THE HIGHEST INCORE TEMPERATURE READING IS 301
DEGREES F.

B. HYDROSTATIC TESTING OF THE EXISTING DECAY HEAT REMOVAL
SYSTEM "B" LOOP HAS BEEN PERFORMED SATISFACTORILY. LEAKS
HAVE BEEN IDENTIFIED AND ARE BEING CORRECTED IN THE "A"
LOOP.

C. THE PRESSURIZER HAS BEEN TAKEN "SOLID" PERIODICALLY
TO OBTAIN CONFIRMATORY INFORMATION ON PRESSURIZER LEVEL
AND TO CHECK PRIMARY SYSTEM LEAK RATE.

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D. THE WATER LEVEL IN THE REACTOR BUILDING WAS MEASURED AND FOUND TO BE 6.1' ABOVE FLOOR LEVEL. THIS IS ABOUT 450,000 GALLONS.

E. ONE OF TWO PRIMARY SYSTEM PRESSURE INDICATIONS NOW IN USE IS GIVING ERRATIC READINGS. DIRECT READING PRESSURE GAGES CAN BE CONNECTED TO THE SYSTEM IF NEEDED.

2. ENVIRONMENTAL STATUS AS OF MAY 21.

ENVIRONMENTAL RADIATION LEVELS CONTINUE TO BE CONSISTENT WITH NATURAL BACKGROUND LEVELS. APPROXIMATELY SIX MINOR RELEASES HAVE OCCURRED DURING THE PAST WEEK (MAY 14-20) IN CONJUNCTION WITH CHANGING LEVELS IN THE PRIMARY MAKE-UP TANK AND SAMPLING THE PRIMARY SYSTEM. AERIAL AND GROUND SURVEYS TAKEN DURING THESE RELEASES INDICATED NO RADIATION LEVELS ABOVE BACKGROUND, EXCEPT FOR A RELEASE AT 1300 ON MAY 16, WHEN AN AERIAL MEASUREMENT ABOVE THE STACK READ 0.05 MR/HR. NO RADIATION WAS DETECTED ON THE GROUND. DURING THE PERIOD MAY 14-20 APPROXIMATELY 36 AIR SAMPLES WERE COLLECTED AND ALL WERE LESS THAN MDA. VEGETATION AND MILK SAMPLES COLLECTED DURING THIS PERIOD ALSO SHOWED NO ACTIVITY ABOVE MDA. EPA AND FDA AIR, WATER, MILK AND FOOD SAMPLES COLLECTED DURING THIS PAST WEEK UP TO MAY 19 SHOWED NO DETECTABLE ACTIVITY FROM TMI.

3. CURRENT LICENSING ACTIVITY.

ON MAY 21, HAROLD DENTON, DIRECTOR, OFFICE OF NUCLEAR REACTOR REGULATION, RECOMMENDED TO THE COMMISSION A THREE-MONTH FREEZE ON THE ISSUANCE OF OPERATING LICENSES AND CONSTRUCTION PERMITS FOR REACTORS IN THE U.S. THE COMMISSIONERS GAVE THEIR CONSENT TO THIS ACTION. MR. DENTON INDICATED THAT THE THREE-MONTH PERIOD IS NECESSARY TO COMPLETE THE EXPERTS ASSESSMENT OF THE IMPLICATIONS OF THE TMI ACCIDENT ON PENDING LICENSING ACTIONS. 44

ACTION PRECEDENCE CONTINUED:

IMMEDIATE BUENOS AIRES
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