

ORIGINAL



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

In the matter of:

TMI-2 RADIOACTIVE RELEASE

Place: Washington, D. C.

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1 UNITED STATES OF AMERICA
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7 TMI-2 RADIOACTIVE RELEASE :
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10 Commission Conference Room
11 Room 1130
12 1717 H Street, N. W.
13 Washington, D. C.
14 Tuesday, February 12, 1980
15

16 The Commission met, pursuant to notice, for
17 presentation of the above-entitled matter, at 11:50 a.m.,
18 Victor Gilinsky, presiding.

19 BEFORE:

20 VICTOR GILINSKY, Commissioner
21 RICHARD T. KENNEDY, Commissioner
22 JOSEPH HENDRIE, Commissioner
23 PETER A. BRADFORD, Commissioner
24
25

1 COMMISSIONER GILINSKY: We are here to get a
2 brief update on the TMI-2 situation.

3 Mr. Stello told us about it yesterday and we would
4 like to hear how things stand as of today. Please, go ahead.

5 MR. STELLO: Okay, I believe yesterday I indicated
6 that the leak was isolated and the two pumps are now on
7 standby could be used if needed.

8 The time they were isolated yesterday was at 2:40
9 in the afternoon which was about an hour and forty minutes
10 after the leak started.

11 They have isolated the leak and found that the leak
12 was caused not by a failure in a pressure transmitter by a
13 swage loft fitting that was off a small instrument line,
14 I believe it was about three eighth inch line that came off
15 and that was the source of the leakage, that has been isolated.

16 I indicated yesterday that the the areas in the
17 building that did go up to about the order of 10^{-7} microcuries
18 per cc from their normal levels which are around 10^{-9} to 10^{-10} ,
19 microcuries per cc in the auxiliary building.

20 This relatively high level of activity existed in
21 the area around where the problem existed.

22 There are other areas in the auxiliary building
23 which were several orders of magnitude lower in activity.

24 Since I briefed you yesterday, there have been
25 some calculations made, at least two different ways to try

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1 to get an assessment on how much activity was involved
2 that could have gone into the auxiliary building atmosphere
3 which clearly did if it was 10^{-7} and possible, eventually
4 find its way into the environment.

5 One way in which to bound that number was to look
6 at the total amount of crypton that is in the primary coolant
7 itself and assume that level of crypton was in the water
8 in the makeup tank and that all of that crypton from the
9 water got into the atmosphere and that would give you numbers
10 that would be on the order of 200 to 300 millicuries of crypton.

11 They removed the charts from the monitors in the
12 filter system which originally yesterday I told you that they
13 did not see any perceptible change that the individual standing
14 there looking at them, they were not able to see anything
15 that they would quantify a change, but when they took them
16 off and measured them to see what they would get from the
17 measurements on the monitors, they indicate that the same
18 ballpark kind of numbers.

19 Now, these are not calculations that I think
20 anyone wants to put a great deal of precision into because
21 we are dealing with very, very small quantities of radioactive
22 material, but they are on that same --

23 COMMISSIONER GILINSKY: Put you put theses in
24 context? Are they -- how do they compare with releases
25 from operating plants, or whatever?

MR. STELLO: A total release of 200 millicuries --

3

1 Dick, maybe you can help me, It would be a very, very small
2 fraction of even Appendix I.

3 MR. VOLLMER: Calculation that were performed in
4 our evaluation of the licensees proposal to vent a crypton
5 from the containment, and the containment we are talking
6 about 50 thousand curies and the whole body dose, assuming
7 average meteorology to the long-term release would come out
8 to be -- at the closest offsite point -- two-tenths of a
9 miligram for the discharge of all 50 thousand curies during
10 average meteorology.

11 COMMISSIONER GILINSKY: How many curies are we
12 talking about here?

13 MR. STELLO: 300 millicuries.

14 COMMISSIONER GILINSKY: 300 millicuries.

15 MR. VOLLMER: .2 to .3 curies.

16 COMMISSIONER GILINSKY: I see.

17 MR. VOLLMER: So, we are down by a factor for
18 several hundred thousands and meteorology yesterday, as you
19 probably well know, was very good, it was very windy.

20 So, the does could hardly be anything significant.

21 MR. STELLO: There are two instruments, one in
22 Goldsboro and the other is in the --

23 MR. VOLLMER: At the observation center.

24 MR. STELLO: -- observation center.

25 MR. VOLLMER: And they did not see any change
in those instruments.

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1 That again, you would not expect the quantity of
2 radioactive material that you are talking about to have really
3 had any offsite affect and that is what I think -- still
4 it was including yesterday and still very reasonable
5 conclusion that you did not have anything going offsite
6 that you would probably, with the best of instruments you
7 would not even be able to pick up.

8 COMMISSIONER GILINSKY: Does this call forth
9 any NRC action, do we respond to the event in any way?

10 MR. STELLO: Yes, immediately on notification from
11 people in the control room, with the onsite team that is
12 there monitored the activities from --

13 COMMISSIONER GILINSKY: The ceiling off of that line?

14 MR. STELLO: Yes.

15 COMMISSIONER GILINSKY: What about the further
16 clean up of the auxiliary building?

17 MR. STELLO: And they are monitoring that now and
18 still going on. The auxiliary building is returned to levels
19 which are just about what they are prior to the leak.

20 COMMISSIONER GILINSKY: They have cleaned it up?

21 MR. STELLO: Well, the levels in the atmosphere
22 will have to go into the cubicle --

23 COMMISSIONER GILINSKY: And the radioactive water
24 goes down into some sump?

25 MR. STELLO: Yes, and from there it can be pumped
over to tanks.

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1 It automatically drains into a sump and then from
2 there it is pumped from an auxiliary sump over into tanks.

3 COMMISSIONER HENDRIE: You do not have to go in
4 and wash down the cubicle any place there has been a splash
5 of this stuff --

6 COMMISSIONER GILINSKY: Right, that is what I
7 am wondering about.

8 COMMISSIONER HENDRIE: -- that we trace liquid
9 boric contamination but the gases by this point must be
10 pretty well limited to the crypton and there is not much
11 of that. So, the atmospheric burden sounds like it is in
12 good shape.

13 MR. STELLO: I guess there is one other fact that
14 I mentioned yesterday, and I think I would like to expand
15 on because the numbers are different.

16 I gave you some numbers yesterday and based on
17 the entry that they made going back into the auxiliary building
18 to look at what the problem was I think the number that I
19 indicated was a total exposure of 10mr for one individual
20 out of eight thousand counts for a minute of contamination
21 localized and another individual.

22 Since then they have made several other entries
23 into this cubicle.

24 One entry they had to make to isolate it, close the
25 valve in the system when they had the problem.

I think there were a total now of about twelve

1 individuals involved and what I asked for were maximum numbers,
2 and the maximum number that I have is a total exposue to an
3 individual of 160mr gamma and the maximum --

4 COMMISSIONER KENNEDY: 160 mr?

5 MR. STELLO: mr; and a maximum beta -- these are
6 not for the same persons -- of 150mr beta.

7 The individual that actually turned the valve had
8 extremity doses of 75mr on the hand, and 60mr on the chest,
9 and it varies for the twelve individuals.

10 That compares to the quarterly dose which is
11 three thousand or more. So, there has not been any indication
12 that there would be any over exposures of plant workers as
13 a result of handeling the leak.

14 COMMISSIONER GILINSKY: Do you draw any particular
15 conclusions to the fact of a leak other than the water had
16 already been cleaned up?

17 MR. STELLO: Well, no. I think a conclusion, if
18 one needs to keep in mind is that there is obviously an
19 awful lot of radioactive water in the building and in the
20 plant and that one has to be careful in operations and try
21 to do what one can to clean up the water as quickly as
22 it can be cleaned up.

23 Things such as a failure of an instrument line
24 is not something that I would put off as very remote
25 category. So, something like what has happened over there
is not something that I would calculate as something

1 that I would characterize as something we should have concluded
2 was unlikely.

3 The kind of problem that you have for maintenance
4 is obviously very, very difficult of the contaminated water.
5 I think, you clearly want to do what one can to get rid of
6 that contaminated water.

7 That is being done at the best of the ability at
8 the moment.

9 The health effects in terms of health and safety
10 of the public I draw the conclusion that there are not
11 health effects to the public --

12 COMMISSIONER GILINSKY: There is not any change
13 in procedures on anything in the way that things are being
14 handled there that you see being called for --

15 MR. STELLO: No, we still continue to check each
16 step that the licensees take before he takes the step and
17 before he made the entries and the assessments that were
18 made and assured that the proper precautions have been taken
19 and the people working in the plant and assuring that the
20 equipment that was being used and there is still obviously
21 quite a bit of redundancy available to cope with contingencies.
22 We are still on the passive pressure control system of these
23 two pumps that they shut off when this leak happened and
24 are now back on standby status and could be used if you
25 wanted to.

Eventually, their plan is to go back after they

1 made an assessment and that will be done very carefully, as
2 it should be.

3 COMMISSIONER KENNEDY: What steps can be taken to
4 move more rapidly with the processing of that water?

5 MR. STELLO: Well, I think that the -- as I understand
6 the present difficulties with the EPICORE system, they are
7 now looking at a different residence that can be used but
8 that is only to process the water that is in the tank.

9 The next question that has to be handled is the
10 process of the water in the sump in the primary coolant
11 itself. It is my understanding proposals will be in?

12 MR. VOLLMER: We haven't as yet received a proposal
13 to the licensees for the primary system water but we have been
14 involved and he has requirements in terms of design criteria
15 and is proceeding with a design for it --

16 MR. STELLO: Is the sump proposal and the facet
17 to sump water due in the Spring?

18 MR. VOLLMER: It was probably due in and we are
19 waiting for it.

20 COMMISSIONER GILINSKY: Anything else we ought to
21 know?

22 MR. STELLO: In which subject?

23 COMMISSIONER GILINSKY: Okay, thank you very much.

24 MR. STELLO: Incidentally, I should add that I
25 received a phone call last evening, it must have been about
seven, seven-thirty or so with the results of these calculations.

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end 1

2 The reason I didn't give them to you yesterday,
3 is because I did not have them.

4 MR. VOLLMER: We have a public meeting in Middletown
5 this evening in which we are scoping meetings on environmental
6 impact statements which shall be moderating, so it should
7 be a rather lively meeting.

8 COMMISSIONER GILINSKY: You will not reply with
9 people who have hand written questions?

10 MR. VOLLMER: No, we never have. I was surprised
11 to hear that. I am not sure that John was addressing, was
12 supposed to be addressing the Goldsboro Counsel and I am
13 not sure how that came about, but we have never required
14 the questions. We have always taken questions.

15 COMMISSIONER GILINSKY: Well, he means having a
16 meeting which was scheduled to cover another subject.

17 MR. VOLLMER: Well, rather broad subjects, I think,
18 but I am not sure whether counsel had originally anticipated
19 the attendance they got from the loud speakers.

20 COMMISSIONER GILINSKY: Okay, thank you very much.

21 (Whereupon the meeting
22 adjourned at 12:30.)
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