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UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

PRESS CONFERENCE  
ON  
THREE MILE ISLAND

7904050199

11 178

Middletown, Pennsylvania  
April 3, 1979

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RAW TRANSCRIPT - UNCORRECTED

P R O C E E D I N G S

MR. DENTON: What I'd like to do is give a quick status on the situation at the reactor as of about noontime and touch on a few other issues and then go to questions.

The situation remains stable. The core pressure is 1100 psi. The temperature has remained at 281 degrees. The hydrogen concentration in the containment is 2.1 percent. The containment building remains subatmospheric, about a pound psi negative. The containment temperature is 88 degrees.

Probably the most significant development regarding the hydrogen bubble and the explosion of hydrogen: today I want to report that we no longer consider hydrogen explosion at a significant problem at this plant for three reasons; the fact that the question of oxygen evolution in this containment in this type of atmosphere has been resolved and the numbers we were using before were too conservative; the bubble has been eliminated, for all practical purposes.

There's probably still some small bubbles in the containment, but they're not -- they're not the type up at the top of the dome, and they pose no further significant safety problems.

And the recombiner is working and removing hydrogen from the containment.

## RAW TRANSCRIPT - UNCORRECTED

The power being produced by the core at this time after the accident is a little less than six megawatts, which is about .18 percent of the total amount of heat that was produced before.

A few elements still remain above the 400 degree temperature, but none are above the saturation temperature for the pressure which the system maintains.

There have been -- there has been a new development regarding the types of radionuclides found in the environment. I think I previously reported that only kryptons and xenons have been found, but there is now evidence that radiiodines are found in very small amounts in some milk samples.

We've brought up some people from the FDA this morning and talked to them; the levels appear to be, when they are found, on the order of 10 to 20 picocuries per liter. These are very small levels. They are not a lot different than our own Appendix I levels that we would permit in continuous consumption of milk for a year.

There's also been some iodine and cobalt found in the industrial waste water that's been released from the plant. At our request, the licensee and the state's request the licensee ceased discharging this water last night. So when we make some further analyses, I expect that the plant will be allowed to continue this discharge this water

11-180

RAW TRANSCRIPT -- UNCORRECTED

1  
2 in accordance with the conditions of its license.

3 I think that's about a quick summary of it.

4 QUESTION: Have you found out why a leak occurred  
5 shortly after midnight last night in the hydrogen containment  
6 area during the hydrogen sampling process, the monitoring  
7 process?

8 MR. DENTON: I'm not familiar with that; could you  
9 tell me a little bit more about it.

10 QUESTION: Yes. Last night outside the plant,  
11 two reporters from the Philadelphia Inquirer monitored the  
12 radio conversations between a fellow named Tom Frailer (PHONETIC)  
13 and a fellow named Vic in the plant control room.

14 Tom says, there's a direct leak from the containment.  
15 Shut the damn thing down and quit screwing around. Shut the  
16 release. Shut all the valves of the monitor. We're going to  
17 take samples and find out what caused this.

18 Then Tom gets on the radio to the mobile radiation  
19 detection unit and dispatches them to an area south of the  
20 Three Mile Island Plant.

21 He asks them to take the highest reading that they  
22 get at those sites --

23 Vic responds, I'm checking on the status of  
24 isolation.

11-181

25 Tom says, see if you can determine by sampling

## RAW TRANSCRIPT - UNCORRECTED

1  
2 in the system where the leak actually occurred. Where in the  
3 valves --

4 MR. DENTON: Well, maybe I can -- with that  
5 much background, maybe I can answer.

6 In trying to take samples of -- in either the  
7 waste gas storage tanks, in trying to take any samples of  
8 primary coolant or any other sample, the -- we've had trouble  
9 taking these samples without introducing leaks.

10 We have one sample from the waste gas storage  
11 tank that shows 50 percent -- 56 percent hydrogen. The rest  
12 is nitrogen. We decided to take a second sample; that  
13 second sample showed entirely different composition, indicating  
14 air in contamination in the sample. And when these types of  
15 samples are taken -- it's difficult to take a sample without  
16 having a leak somewhere within the sampling point and back  
17 to the tank. The total amount of radioactivity getting out  
18 aren't changing the off-site dosage significantly.

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QUESTION: First, can you possibly elaborate a little bit more on the situation of iodine? We've asked about it several times and thus far you haven't had a good deal of information.

Where is the iodine specifically being tested; where are the samples being taken from? I couldn't understand, for example, the term you used to describe the amount of iodine, the effect on the milk, grass, and farmers, the iodine in the water, what that would effect.

Second of all, I'm sure you're aware -- I'd like a little bit of the truth: There was a situation at the University of Southern Maine, a Dr. Armand Shroud happened to have been looking at a meter up at his laboratory. There was a rainstorm and the meter measured 100 times the normal amount of radioactivity, he said, in the area.

Now he suggested that it perhaps is coming from Harrisburg. I understand since then that this is perhaps not the case.

But the question is: how much radioactivity might have traveled around the area? Is it possible it could have gotten there from wind streams, et cetera?

MR. DENTON: Let me try to elaborate on that a bit.

11 183

The samples that were taken by the NRC when we first arrived were sort of emergency type samples. We sampled

1 air, milk, water, and had those done with our mobile lounge.  
2 And in fact, the NRC samples have yet failed to find any  
3 iodine levels above detectable levels even in milk.

4 I think we sampled 56 milk samples from 17 differ-  
5 ent farms. Now the I'DA in its milk sampling program of some-  
6 what wider scope, and they're sending them off to a laboratory  
7 in Massachusetts for analysis, originally reported some  
8 samples as high as 41 picocuries in milk at some nearby farms.

9 QUESTION: What's that?

10 MR. DENTON: Picocuries per liter.

11 They've since refined their numbers. I understand  
12 the peak sample that is now reported by FDA is about 31 pico-  
13 curies per liter. The range of activity in those samples that  
14 they considered liable is on the order of 10 to 20 picocuries  
15 per liter.

16 If you were to consume milk like that for a month,  
17 the radiation level would be approximately the same as would  
18 be permitted under our limits for routing operations.

19 Maybe I stated that poorly, but I don't consider  
20 these radiation levels of 10 to 20 picocuries per liter any  
21 cause for alarm with regard to milk. **11 184**

22 Now the question, where is this iodine coming  
23 from, we've been able to go back and look at the cartridges  
24 that sample the air as it's released from the plant. All the  
25 air released from the plant goes through a high efficiency

1 particulate filter and then through a charcoal filter before  
2 it's released. The air then is sampled by passing it through  
3 a charcoal cartridge, and these cartridges are counted.

4 Our best estimate of the total amount of iodine  
5 that has been released as a result of this accident is about  
6 one curie..

7 QUESTION: Would you compare these concentrations  
8 to the maximum permissible concentration that one might get  
9 from, say, the Chinese fallout?

10 MR. DENTON: The governor put out a press release  
11 earlier today that I agree with. He pointed out that the FDA  
12 action level is 12,000 picocuries per liter. And during the  
13 Chinese fallout period levels of 100 picocuries, and in some  
14 instances up to 300 picocuries, were reached.

15 Our own standards call for not exceeding about  
16 two and a half picocuries per liter on an annual basis for  
17 milk consumed during the whole year.

18 QUESTION: Dr. Denton, when will this all be over?  
19 When can the pregnant women and children, and life get back  
20 to normal in this area? **11 185**

21 MR. DENTON: I hope that from here on out we can  
22 move rapidly in that direction, with the fact that we're no  
23 longer concerned about a hydrogen explosion and the bubble  
24 ~~is no impediment to operation. We are right now developing~~  
25 and looking at plans for the most effective way to bring the



1 reactor to a cold shutdown state without an increased leakage  
2 from the plant. I'm not yet ready to give a prediction.

3 The Staff is looking at it. But I'm hopeful we  
4 can now move forward, as we've eliminated these problems.

5 QUESTION: Mr. Denton, aren't there daughter  
6 products of krypton and xenon that include iodine-131 and  
7 strontium-90 that would start to be detected a few days from  
8 now?

9 MR. DENTON: There are daughter products of xenon  
10 and krypton, but iodine is not one of them. Strontium is.  
11 And I believe that the radioisotope most commonly found is  
12 rubidium-88, where they have very short half-lives, and the  
13 ones that have long half-lives, like strontium, are found in  
14 exceedingly small amounts when they are generated by shorter-  
15 lived parents.

16 QUESTION: Are you looking for strontium, which  
17 obviously is a --

18 MR. DENTON: Yes, we are.

19 QUESTION: A follow-up on an earlier question.

20 Again in layman's terms, now, you are telling us  
21 that the bubble danger is gone. As you described it, what is  
22 the basic danger, then, that remains? **11 186**

23 MR. DENTON: I think, as I said before, time is on  
24 our side. Of course, temperatures are getting lower, the amount  
25 of heat generated by the fuel is lower. As long as the system

## RAW TRANSCRIPT - UNCORRECTED

1  
2 is pressurized there is a potential that some loss of cooling  
3 mechanism might still cause the core to become uncovered,  
4 until we can get the system operating in a state such as  
5 it's operating with water below the boiling point so that we  
6 don't have to worry with system failures.

7 QUESTION: Until you do that, the danger remains?

8 MR. DENTON: I think the danger point is consider-  
9 ably down from where it was a few days ago because of the  
10 concerns about the bubble and hydrogen explosion.

11 So in my own view, it's -- we can fall back on  
12 the traditional options for bringing the reactor core to a  
13 cold condition. And the main obstacle to doing so is to  
14 pick one which doesn't do further fuel damage and which  
15 doesn't result in the release of the highly radioactive  
16 water inside the containment to the environment.

17 QUESTION: Would you describe whether or not  
18 there has been any radioactivity detected in the water supplies?  
19 And also would you go into the (inaudible) potassium iodine  
20 and whether or not that's under consideration for workers and  
21 other people that might be subjected to the iodine?

22 MR. DENTON: I don't have the data at hand on  
23 whether or not radioactivity in water has been found at other  
24 cities. I kind of doubt it. Because the plant has essentially  
25 been releasing radioactivity at or near, slightly above or

1 slightly below our normal limits for releases. And at those  
2 levels I would not expect radioactivity to be found in down-  
3 stream water supplies.

4 With regard to iodine blocking tablets, I under-  
5 stand that this is being considered by people within HEW incre-  
6 ly as a precautionary measure.

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1 QUESTION: Dr. Denton, yesterday you expressed  
2 some concern about the effect of high radioactivity on the  
3 instruments and cables within the containment.

4 Could you tell us today what is the state of that  
5 and what is the short term scenario for that?

6 MR. DENTON: Well, during the accident, if I  
7 go back to time zero, there were a few instrument losses at  
8 that time. There were no further changes in the status of  
9 the instrumentation until a loss of the flow transmitter  
10 which I described yesterday. There's been no further changes  
11 in the status of instrumentation.

12 Most of the instrumentation at the plant is  
13 redundant and we have a means to get the information we are  
14 seeking, but we do have a task force looking ahead and  
15 making contingency plans if we do lose vital instrumentation.

16 QUESTION: Dr. Denton, could you tell us first  
17 how much the temperature in the core has been brought down  
18 in the last 24 hours; and second, could you tell us what  
19 the problems, the risks are involved in bringing the RHR  
20 system into operation and whether you have tested it for  
21 operation for possible leakage.

22 MR. DENTON: The whole effort over the past few  
23 days has been to maintain the core in a stable condition,  
24 so the temperature of the inlet and outlet of the core has  
25 been essentially 280 degrees for the past several days. We

11-189

## RAW TRANSCRIPT - UNCORRECTED

d2 1  
2 deliberately tried not to change the known collable  
3 geometry of the core, the known cooling system; so there's  
4 been no change in the method of cooling. With regard to the  
5 RHR system, we want to be sure before we turn it on that  
6 we've taken every precaution against leaks and ensure  
7 maintainability.

8 The auxiliary building was contaminated because of  
9 the water on the floor as a result of earlier spills; there  
10 was a radiation survey made yesterday by a team from the  
11 Department of Energy to see what the problems would be when  
12 we go in and try to put in shielding between the redundant  
13 components. We want to put in filters on components that  
14 might leak. Since the RHR brings contaminated water from  
15 the containment out and cools it and returns it, it's very  
16 critical that we don't turn it on until we have all the  
17 leaks or potential leaks in that system isolated and be sure  
18 the system would perform adequately for the type of conditions  
19 we've got.

20 QUESTION: Yes, Mr. Denton, can you please tell us --  
21 can you confirm whether the core is totally damaged; second,  
22 whether any nuclear fission is going on in the core at the  
23 present time; and third, whether this plant -- how long will  
24 it take to decontaminate the plant. **11 190**

25 MR. DENTON: Well, with regard to the fission

## RAW TRANSCRIPT - UNCORRECTED

1  
2 process, that was terminated by the control rods -- by  
3 scram at the initiation the event.

4 MR. FOUCHARD: Repeat your second two questions.

5 QUESTION: The second part: is the core totally  
6 damaged, even greater than the estimate you gave us? Is there  
7 some further damage?

8 MR. DENTON: I haven't given you any new numbers  
9 aside from the numbers I gave you earlier. I said that  
10 when we look at the core -- that there will be extensive  
11 damage to most of the fuel rods, the upper part of the cladding  
12 of those rods.

13 I should expect perforations in the cladding,  
14 fragmentation in the pellets; and you've got approximately  
15 2 to 15 percent of the core which had experienced very  
16 high temperatures as a result of transient.

17 I would expect that the upper part of the core  
18 would show extensive damage.

19 QUESTION: With school scheduled to open on a  
20 large scale tomorrow, are you telling the people are here that  
21 the chances for any type of massive evacuation are totally  
22 remote?

23 MR. DENTON: I think that's a decision that's made  
24 by the governor. I would defer to his judgment. **11-191**

25 QUESTION: What would you advise him at this point,

## RAW TRANSCRIPT - UNCORRECTED

1 based on what you said about the bubble?

2 MR. DENTON: There are two issues on which I  
3 reported to the governor when I talked to him last night.  
4 I reported to him on the progress of being able to pump  
5 back into the containment the leakage that still is occurring  
6 from the letdown system. We're still checking that system  
7 out. We've not yet begun to pump that leakage back into the  
8 containment, and that's a source of routine, low level  
9 exposure.

10 Then there's the question of the core itself. And  
11 with regard to the core itself, I'm very optimistic now  
12 that we've gotten over certain hurdles to bring in down; I  
13 think we're very close to being able to pump back into the  
14 containment the gases that have been generated outside of the  
15 auxiliary building.  
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## RAW TRANSCRIPT - UNCORRECTED

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2 QUESTION: With the hydrogen bubble diminished  
3 and the buildup of oxygen problem gone, when you do make the  
4 deliberate attempt to bring the reactor down, at this point  
5 would you recommend any necessity for evacuation?

6 MR. DENTON: It depends on the mode selected. I  
7 think it's likely that we will attempt to cool the plant down  
8 using exactly the same mode of cooling as it's now operated  
9 in because we don't have the worry with bubble expansion that  
10 was our principal concern earlier.

11 QUESTION: Are you talking about days or weeks to  
12 shut down?

13 MR. DENTON: I believe -- I can give you a much  
14 better handle on it tonight. I need to look at the outcome--

15 QUESTION: What about yesterday?

16 MR. DENTON: Yesterday we were still worried about  
17 the bubble. And now that we've passed that hurdle, our  
18 concerns will be better framed.

19 QUESTION: You've answered two of the questions  
20 that have been posed earlier, that is: how does radiation  
21 travel long distances. And the second question is: Based  
22 on your estimates of decontamination used (inaudible), how  
23 long you expect it will be before work can begin in the  
24 primary containment?

11 193

25 MR. DENTON: The question is, how is radiation



## RAW TRANSCRIPT - UNCORRECTED

transported, and secondly, how long before workers can enter the containment.

I discount completely any influence of this plant on samples in Maine. In other words, I don't think even with the one curie release that has occurred over the last several days that there has been any analytical equipment which could detect iodine concentrations beyond ten miles or that sort of distance.

With regard to how long before entering the containment, the half-life of the principal isotope, xenon, is five days. And the radioactive levels continue to be very high in the dome. So we will continue to wait for decay to take place and those levels to get down so that people can enter.

It could be four or five half-lives before the xenon levels are down to a level.

I might mention also that the dome reading continues to be somewhat synonymous with other levels in the containment, which are lower. So it's not clear that the radiation levels throughout the containment are uniform.

QUESTION: Can the problem be totally cleaned up? Can the plant operator get in? If so, how long might that whole operation take?

11 194

MR. DENTON: That's another one that our think tank

## RAW TRANSCRIPT - UNCORRECTED

1  
2 is scoping out. Obviously it would require refueling of  
3 the core. That will require looking at all the instrument  
4 cables and instrumentation which has been exposed to these  
5 high radiation levels to assure they could still work.

6 I think we're talking about a considerable period  
7 of time before the plant would resume operation.

8 QUESTION: Is it certain that it can, or is there  
9 a possibility that it can't resume at all.

10 MR. DENTON: I think it's really too early to say.  
11 My best estimate would be that it's likely the plant could be  
12 restored to an adequate status to resume operation. But we  
13 have to defer on that until we've actually looked inside to  
14 see how much equipment has been damaged.

15 QUESTION: Mr. Denton, is there a significant  
16 probability that the level of risk, say on Saturday, would  
17 increase once again in the process of bringing the reactor to  
18 cold shutdown?

19 " " MR. DENTON: "I doubt it. I think that the concern  
20 we had with the bubble was it interfered with the normal proven  
21 ways of cooling. The hydrogen brought with it a chance for  
22 complete disruption of the coolant system due to an explosion.

23 With those potentials out of the way, I expect  
24 there to continue to be frustrating problems, that the equip-  
25 ment may fail. But with each day that goes by, the core gets

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## RAW TRANSCRIPT - UNCORRECTED

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2 cooler. And without the bubble in the core there are many  
3 systems available to cope with bringing it down.  
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## RAW TRANSCRIPT - UNCORRECTED

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3 2 QUESTION: What effect really does rain have on  
1 3 the radioactivity.

4 MR. DENTON: If there are particulates in the  
5 atmosphere such as iodine -- in other words, they would  
6 scavenge out of the atmosphere, the releases, and tend  
7 to concentrate them in the area of the site.

8 With regards to the noble gases, they're probably  
9 more dependent on wind speed than on rainfall.

10 QUESTION: Could you go through the -- what the  
11 major means were for getting rid of the hydrogen bubble, and  
12 did it proceed as you have been outlining your options over  
13 the last few days?

14 I mean, did it go away the way you expected it to  
15 go away, or did it go away in a way that surprised you?

16 MR. DENTON: I think it was a little bit because of  
17 our actions and maybe a little bit of serendipity.

18 QUESTION: Excuse me, I didn't hear that.

19 MR. DENTON: A little bit of luck and a little bit  
20 of forethought I think it responsible for it.

21 Several days ago we decided that it was very important  
22 that we do everything that we could to lower the hydrogen  
23 concentration above the vessel; so this is when we asked the  
24 applicant to continue spraying coolant in the pressurizer and  
25 continue getting it down. Since that time we've discovered

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several other mechanisms that we're operating, such as control rod leakage, pump seal leakage, the letdown system, and perhaps the chemical recombination of the hydrogen and oxygen within the water itself, using radiolysis and the back pressure.

So all these combinations of events have caused a reduction. I would say that there is no bubble any longer at the top of the core. There are probably small bubbles throughout the water, and the water has a certain amount of sponginess to it.

But there's no longer the bubble at the top that was our previous concern.

QUESTION: And no --

MR. FOUCHARD: Just a minute. The background noise in the rear is -- we're having a great difficulty hearing your questions. Could we please just keep it a little more quiet.

QUESTION: Dr. Denton, was there -- do you have any evidence that there was trouble at the reactor prior to 4:00 a.m. last Wednesday when Met Edison claims it began?

MR. DENTON: I have no more evidence than was described in the bulletin that was released yesterday to all the other applicants.

11 198

They were having problems with the feedwater

1 and looking back, these were the types of startup problems.  
2 And with hindsight I think we recognize that there were  
3 some problems with the auxiliary system.

4 QUESTION: We've heard various reports since the  
5 beginning of how much water was actually in the containment;  
6 perhaps a quarter of a million gallons or more. If that  
7 is as highly contaminated as the atmosphere in the  
8 containment, what do you do with a quarter of a million  
9 gallons of contaminated water?

10 MR. DENTON: It would have to be processed through  
11 the rad waste treatment system, and the particular radioactivity  
12 solidified; in regard to the gases, we'll just have to wait  
13 for decay to take place in the system.

14 QUESTION: It will be transported?

15 MR. DENTON: No, the water would be cleaned up and  
16 purified before it would be released.

17 QUESTION: Was there a tape recording made -- was  
18 a tape recorder running in the control center at the time  
19 of the incident last Wednesday?

20 MR. DENTON: A tape recorder?

21 QUESTION: Was a tape recorder as a normal  
22 precautionary measure to monitor something in case an  
23 accident occurred --

11 109

24 MR. DENTON: We have no requirement for vocal  
25 tape recorders running. If there were, it was not -- not a

## RAW TRANSCRIPT - UNCORRECTED

1  
2 requirement.

3 QUESTION: You said yesterday that once the  
4 hydrogen bubble was gone there would be no hydraulic  
5 obstacles to cooldown. Are there any other kinds of  
6 obstacles to cooldown, other than the possibility of  
7 some leakage that you've outlined?

8 MR. DENTON: No. With the bubble gone, the  
9 only hydraulic obstacle is to be sure that you don't change  
10 pressure drops across the core or change flow rates such that  
11 you might further damage the fuel. So, it's not an obstacle  
12 to getting water through the system.

13 There's no problem with the bubble causing pump  
14 failure or cavitation. But we want to make sure the change  
15 in the hydraulics of the system don't further damage the  
16 primary system.

17 QUESTION: To go back to your assessment of when  
18 it might be possible to enter containment, you had mentioned  
19 that the principal isotope there is xenon with a half life  
20 of about five days. You spoke of several half lives. Does  
21 that translate into a period of approximately 20 to 25 days as  
22 your best guess?

11-200

23 MR. DENTON: I think that's even optimistic,  
24 because there are probably even iodines in the water and  
25 there are trace elements of barium and cesium. While the

## RAW TRANSCRIPT - UNCORRECTED

1  
2 predominant isotope would be gone considerably by that  
3 time, there might still be others which would take a little  
4 while to run off.

5 So I haven't turned to that issue and attempted  
6 to get a level, but I would think it would be in excess of  
7 a month.

8 QUESTION: In excess of a month?

9 MR. DENTON: Yes.

10 QUESTION: Just to be sure I understand something  
11 in connection with your references to the containment building;  
12 when that transcript was read to you earlier that appeared  
13 to be a monitoring of two workers, you gave a rather  
14 elaborate answer; in a word, has there been any radioactive  
15 leak from the containment building?

16 MR. DENTON: To my knowledge, no leakage from the  
17 containment building. The containment appears to be  
18 functioning exactly the way containments are supposed to be,  
19 isolating under negative pressure. Leakage would occur into  
20 the containment building, however, whenever samples are taken.  
21 It is inevitable that some leakage would occur during the  
22 process, and there is leakage going of noble gases and  
23 some iodines occurring from the plant now. As water dries  
24 up from previous spills, it's continuing to let iodine into  
25 the atmosphere, and then until we can get the waste gas  
takeback system operating in a manner that pumps back into



## RAW TRANSCRIPT - UNCORRECTED

1  
2 the containment, everything that comes out of the containment  
3 there will continue to be small releases as manual operations  
4 are performed and the system is aligned, of course, pumping  
5 it back.

6 QUESTION: Are you going to have a talk with Tom  
7 and Dick.

8 MR. DENTON: I guess Tom and Dick work for the  
9 power company.

10 QUESTION: What are the present levels of radiation  
11 coming out of that plant now?

12 MR. DENTON: I don't have a new number. Yesterday  
13 I said that the radiation levels with regard to noble gases  
14 are going down; in other words, the measurement made in the  
15 plume by our helicopter shows continuous decreasing levels of  
16 the noble gases.

17 The iodine levels that are coming out probably are  
18 just about constant or changing with a half life of that  
19 iodine isotope. Staff says the best number we have for iodine  
20 is about a curie over the total course of the accident to date.

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## RAW TRANSCRIPT - UNCORRECTED

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QUESTION: On the basis of this survey that you said was taken yesterday, can you describe those a little bit more fully, the contamination situation in the auxiliary building?

MR. DENTON: Earlier in the accident going back several days, waste tanks in the auxiliary building were overfilled and water was on the floor of the auxiliary building. And as the water there begins to evaporate, it leaves on the floor iodines and maybe other particulate matter, the cobalts that were in the water.

And so the auxiliary building is quite hot, and that's why the DOE team was then surveying to establish what kind of decontamination would be necessary before you could go in and establish the kinds of shielding and filter equipment in order to make it RHR operable for long term core heat removal systems.

QUESTION: Okay. You said a little while ago that because of your actions and a little bit of luck, the reactor is cooling and the bubble is disappearing.

By "luck" do you mean the fact that it's raining and colder weather outside? What effect does that have on the building, the vessel and the problem?

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MR. DENTON: By "luck" I meant each one of these various sources had moved. Hydrogen from the containment was

## RAW TRANSCRIPT - UNCORRECTED

1 really responsible --

2  
3 QUESTION: Was the change in the weather really  
4 affecting --

5 MR. DENTON: No, sir, I don't think so.

6 QUESTION: Met Edison people are saying that the  
7 change in weather moved the bubble down, has reduced the  
8 bubble.

9 MR. DENTON: I guess I'll have to get educated  
10 on that one.

11 MR. FOUCHARD: Yes, ma'am, the last question.

12 QUESTION: When the safety injection system was  
13 turned off manually, you said that you still weren't sure how  
14 long it stayed off, and have you found out since?

15 MR. DENTON: I think we've been looking at that.  
16 We plan to submit a briefing on the entire incident in a few  
17 days. And at that time we can tell you what we know about  
18 the entire history of the event.

19 I'm not going back to look to establish times and  
20 sequences yet; but it will be in a public meeting with the  
21 Commission.

22 MR. FOUCHARD: Thank you very much.

23 (Whereupon, at 3:20 p.m., the press conference  
24 was adjourned.)