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COMMONWEALTH OF PENNSYLVANIA GOVERNOR'S OFFICE HARRISBURG

ROBERT C WILBURN SECRETARY OF BUDGET AND ADMINISTRATION

October 10, 1979

Mr. Malcolm L. Ernst NRC/TMI Special Inquiry Group Nuclear Regulatory Commission Washington, D.C. 20555

Dear Mr. Ernst:

Thank you for giving me an opportunity to review the transcript taken on September 19, 1979. As you will note, I have made some milor revisions and grammatical corrections in the text.

Sincerely,

Total Clur Robert C. Wilburn

drafted by the counties. In addition to that, at that point in time, the Pennsylvania Emergency Management Agency was in the process of developing a 20-mile plan -- both a 10 and 20-3 mile plan. So, they were all in the process as of that 4 morning. 5

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What deficiencies did you find in the original fivemile plans?

The original five-mile plans by county differed greatly in the level of specificity. By that time, while the written plans did not reflect a completeness, I think that the Thad come were actual plans that people were dealing with did. a long ways over the last - over the prior three days.

My role was one of doing, I suppose, what the had Governor would do had heathe time to go down and ask questions and trying to get answers and trying to get a degree of confiwe wanted to feel dence in the plans, how comfortable we felt with the plans. I tried to cross-examine the plans and poke holes in them to see that they were attempting to address all the questions.

I asked questions like, "Well, who is going to drive the school buses now that we have them?" In some cases, the answers were not as good as I would have liked to have thought they would be. But, of course, as soon as the question was raised, them it is checked and double checked in going out to the counties. And in some counties, response would be better than others.

The questions -- I tried to question each aspect of the plan concerning -- questions like, "Who would drive the school buses? Are there any difficulties in the transit routes? Are they sure that they have in fact that they don't have any countries being evacuated in one direction and another county going in the other direction?" I think logical questions, making sure that they were looking at the forest and not just the trees.

My initial reaction in the morning of - Saturday
morning was that the plans were reasonably good, that there
were a lot of answers that people in the Emergency Management
Agency did not have. That I had some concerns about the traffic
flows and issues like that

Subsequently, during the day I continually called various people to try to get crosschecks. What was being done. I had discussions with General Scott who is the Adjutant General of the Pennsylvania National Guard, or the General in charge of the National Guard; discussions with Dan Dunn, who is the Commissioner of the State Police; discussions with Gordon MacLeod, who is the Health Secretary, in attemption to de crosschecks of evacuation plans to make sure that they were comfortable with their functional areas and how they were being handled in the plans.

I found in that process that the questions that

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PEMA was not able to answer being addressed very carefully

by each of these cabinet secretaries, and I felt by the evening much more comfortable, then I did in the morning.

Q This is on Saturday?

ably comfortable that we could conduct certainly a five-mile also evacuation, and with a 10-mile evacuation with a reasonable degree of success and minimal amount of loss as far as injuries, property damages, personal damage of all kinds. Which again, you know, It was a gradual process through the day of asking questions and making sure that at least somebody was in charge of that particular area and that we were not going to run afoul.

Transportation Department in the fact that the Transportation
Department, while many of the questions could not be answered
by PEMA in the morning, as the day progressed, I found out the
Transportation Department was running simulated models of
traffic flows; that they knew what the traffic would likely
be in all directions; that they had actually stationed barriers
and roadblocks and maintenance sheds and brought them in from
surrounding areas to make sure that they would have the
equipment available. They had placed the maintenance people
on standby and so that they could be called in to rearrange
barriers if massive traffic changes were required.

I found the same kinds of response with the National 1 Guard; the same kind of response with the state police. As the day went along, I was giving more positive responses to the Governor. I also gave an evaluation of our evacuation plans to General Eidenberg at the White House and also to 5 Jack Watson who is Mr. Eidenberg's boss. All of this was done, unfortunately, orally. We weren't thinking of making reports at that particular point in time. And other than the plans that we were working on, there is very little documentation . Di-that.

So, you went from agency to agency then, or did the agencies communicate with each other? Like the State Police and the National Guard, did they talk to each other?

Yes, we have what is called a PEMA Council in which all the affected cabinet members sit. There is a meeting of that group that I attended the previous day on Friday at --I believe it was 1:30 cr 2:00 o'clock in the afternoon. Although I am not a member of that council, the Governor asked me to go as his personal representative to that council.

The role that I played from Saturday and subsequently to insure that , of the evacuation plan through this incident -- I mean the pieces (were falling in place as they were supposed to fall in place. The protocol was being followed. There was coordination among the departments. But the Governor, recognizing his kind of unique to unsure responsibility of making sure that everything comes together

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as it is supposed to come together, did not want to leave anything to chance, and asked that I go in and kind of make sure
that all these pieces were coming together in the ways they
were supposed to be coming together. And It was really a
double checking of everything.

We were very careful that in no way would we interoperation of the
fere with the Emergency Management Agency and very careful to
be as invisible as possible as far as not to in any way weaken
the authority of the director of the Pennsylvania Emergency
Management Agency or, you know, the counties, And tried to be
as invisible to the county structure as possible. I think we
were successful. I don't think they really knew that was
being completed
going on for the Governor.

- Q Do you happen to know the responsibilities that were delegated from the Council to the PEMA director?
 - A The responsibilities that were delegated?
- Q I think the state law, if you don't know it -- we will -- but I think the state law talks about responsibilities of PEMA, which is the Council, and then also it says the Council shall delegate whatever authority -- not the delegation of responsibility but the delegation of authority as appropriate to the director.
- Q I really can't answer those questions. I didn't do a management review. I was just there trying to say, "Are we missing anything? Are there big holes in this plan?"

And frankly, as far as the Pennsylvania system is concerned, I had very little involvement before that point and probably would have little involvement afterwards unless --

Q Fine. You mentioned PEMA could not answer some questions. Do you have a specific on -- of the kinds of questions that you found most difficult to work out or find answers to?

A Most of them were traffic related questions, traffic flow questions. I mentioned the one about the bus drivers, and it was one simply that the answer was in the counties. It wasn't that the answer wasn't available. They just didn't have it centrally.

were

heing overlaid on the whole plans because of the uncertainty about the radius of evacuation. The was causing great concern being of evacuation. The was causing great concern being on everybody's part about whether we were going to be asked to do a five or 10-mile evacuation. And at that there was even speculation about a 20-mile evacuation, which was heightened that day by Washington that there could be a 20-mile evacuation. You know, we spent a considerable amount of time asking questions about the interaction of a five, 10 and 20-mile evacuation. If we had a five-mile evacuation, could we then go to a 20-mile evacuation, or will we have evacuated everybody from the five miles into a 10-mile radius? Those kinds of sequential questions.

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I don't know if they had been addressed in part or they had been raised before or if that was the initiation of they being addressed. It is difficult for me to assess. But certainly, during the day we became very attuned to these kinds of issues.

Q Is it fair to characterize then that the existing emergency plans were rather general in nature, did not have too many specifics as to people and exact routes and --

A Yes.

Q -- and detailed responsibilities, and this was the area that you were checking into?

A Yes.

Q PEMA didn't have those details either, and you had to --

Were two sets of emergency plans. There is the ones that were developed by the Radiation Bureau and the Department of provide Environmental Resources, which is a protocol for calling of evacuation. PEMA has the execution phase, if you will, of that evacuation.

The degree of specificity, I think, was fairly good in terms of the Department of Environmental Resources' kinds of response to give levels of radiation and so forth.

The counties are charged with -- the principal responsibility in evacuations, as I understand it, and PEMA

serves as the coordinator over all agencies. The level of detail varied considerably by county, and L-think to a large extent it depended upon the individuals that were in those counties.

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those plans readly -- the written plans are reflective of the capabilities of the individuals and what can be done in a crisis. I think If you looked at the plans or if you looked in the counties, you might find little ecordination in that regard. But nevertheless, I think it is fair to say that certain counties are very vague in exactly how they would evacuate and in what direction and --

Q Did you talk to the coordinators of each of the counties in this review process, or did you have big meetings, or how --

A No, what was done with the counties was really done through the National Guard. I requested that the National Guard be sure that they had at least one representative in each county that would at least serve as sort of an independent who check and that would report back to General Scotty of an independent assessment of how well the county was being that was being done in a manner not to interfere or in any way question the authority of the kind of people who have the nearly was being to evacuate. And we relied on that information flow, and that was through General Scott to me as just an independent

crosscheck on their plans.

Those reports were coming in late Saturday and through -- well, through the remainder of the incident and were generally very positive as far as their capability of that the countries.

work was being done.

- Q You mentioned the 10-mile and 20-mile plans.
- A Yes.
- Q Did you review this as time went on and these plans were developed, or did you stay in this review process for the next several days and get familiar with the 10 and 20-mile plans?
- A Yes, in fact on Saturday we were reviewing the five, 10 and 20-mile plans all day long. It wasn't just focusing on the five and 10. We were looking at the 10 and 20-mile plans through Saturday and Sunday, I would say, culminating A+tL.t time, by Sunday afternoon, we reached the conclusion that there was little use in planning for a 20-mile evacuation because we were unable to determine scenarios under which a 20-mile evacuation would be required.

We then focused all of our attention on the five and 10-mile plans and dismissed the 20-mile plan. I shouldn't use the term dismissed because what we found in this process was that it made no sense to talk about a five and 10-mile the celected plan without recognizing the consequences beyond that radius.

We began to focus on what we called a 10-mile plan with 20-mile

consequences.

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I think I could explain that very easily. One of the problems that we were having concernabout - having concern to a certain extent -- was checking on the institutions in the area to make sure they were continually being staffed. There were a lot of rumors -- the rumors were incredible about institutions being without staff and getting calls from various responsible people saying that we had to close certain members present. hospitals because there was no staff/there. One example -it was and I do not remember the name of the hospital -- but they reported that said there was only a third of the staff had showed -had not reported professional staff, showed up to take care of the patients, We were fold we and that we had to close the hospital.

After doing an investigation of that, we found that the stuff was—
it was true, that they were down by two-thirds as far as the staff was concerned, but they also had released patients so that a third of the patients were left, and it was not an imminent problem but one that had be watched and monitored very closely.

Q How did the chicken and egg work on this? Did they reduce staff because the patients were reduced because they were going elsewhere, or did they have to release the patients because the staff was not available?

A No, this was a decision made early on to reduce down early to only those patients that could not be released. And I

think that was a very wise decision because that meant if you had an evacuation, it would proceed more smoothly.

occurred. You can speculate as well as I. The what I attended to talk about, the radius and the consequences into the 20 miles. The hospitals happened to be located at. I think, between 10 and 20 miles, and we were having problems in althoughton of prior to an evacuation in that 10 to 15-mile area. We were convinced if we ordered a 10-mile evacuation we would also have to evacuate those hospitals, even though they were technically outside that 10-mile radius.

So, we began to talk about a new concept, a radius of evacuation with consequences going out considerably further than that radius. And I think that is something that is going to be very important for future planning in these events. One lesson I think that was learned is that it is important to establish different radiuses and don't change them during the process. And it is I think, a very inexact science, and It is hard to argue the difference between a 10 and 15-mile radius. And It would be better to stick with a 10-mile radius—or whatever the radius is that the experts decide is will be appropriate.

And the second thing is, once that radius is deterexpanding mined, you had better prepare for the perimeter. And If you have major installations on the perimeter, you had better be prepared to evacuate those.

Q You mentioned criteria or scenarios of consequences.

A Yes.

Q Where did you get these scenarios or types of consequences? What was your source of information?

Denton, Harold Denton. We met with him at least once a day and talked with him on the phone periodically during the days.

We relied on him to give us those scenarios.

We also had input from a man named Doctor Wald, who is, as I understand, a leading expert in nuclear medicine.

And he worked with us on what the effects on human beings are and -- what those radiuses or radii can be.

determined, largely through input from Mr. Denton and Doctor Wald, that the 10-mile radius was the worst possible case that we could logically plan for. And it was confirmed Sunday evening in a meeting with Mr. Doctor Hendrie came and met with the Governor that might. And his conclusion was received a 10-mile radius of evacuation. Now the did talk about, again, consequences beyond a 10-mile radius, but he such precautions as was talking about making it a warning to stay indoors or something to that effect.

But there was no scenario that he presented or dis-Mccontaled a radius quater than cussed at that meeting which would have 15 The worst case

plan called for a 10-mile evacuation.

So, we were very pleased that at least we were coming together on what the appropriate radiuses or radaii were for consideration.

Q You mentioned a good deal of coordination with the National Guard.

A Yes.

A couple of things. Number one, in the meeting that we had in Harrisburg a few months ago with General Carroll,

I believe his name was, he indicated some concern I think on his part as to whether guardsmen would easily go into areas of high radiation because of the lack of equipment to monitor radiation.

I also understand that sometime back there was another review of General Scott, I think, where there was some statement that guardsmen will never go into areas of dangerous radiation.

Do you have any observations on whether or not the Guard -- what kind of consequences might be -- exist and would still have a Guard that would be willing to go in and perform emergency services? Is that a problem?

A I really have no way of answering that. I can't

make -- I can make a few comments about my feelings with the

total population that we were dealing with, and to the extent

that spills over in the National Guard. When people make

flippant comparisons between something like this occurring and floods and other kinds of national disasters, I think they really do not understand the degree of fear that existed in the general population and how that had to impact on everything that we did, everything from whether or not deciding to close additional schools or to open additional schools. That you wanted in no way to communicate that anything was not correct and far as whether or not the degree of crisis had heightened, as far as whether or not the degree of crisis had heightened, that all of our actions were portraying the fact that that appropriate that all of our actions were portraying the fact that that appropriate the level of crisis at that particular point in time.

It is difficult to pinpoint specific things that

occurred that gave one this sense that the people were in such

a state of emotional frenzy, but there were little things

that happened throughout that kept reminding you.

There was a news story that came out on Saturday

cautioning that

night about the bubble might explode, and it was flashed across

Screens.

The It was only a matter of minutes that we were

getting reports of some traffic jams on a Saturday night in,

you know a portion of the greater metropolitan area. And you

had those kinds of indications from time to time that people

really were frightened, and that

So, you know, how that spills over into the National

Guard, I think -- Is has to be a concern L cause these people

are human beings. But whether or not they would perform their

mission, I have no way of answering that.

Q Your comments are enlightening. Thank you.

This may be related to the first question, but maybe not. On August 31st, Governor Thornburg testified before the President's Commission that he had requested you to monitor the performance of PEMA. Is this a separate action from the review of plans or an additional responsibility?

A No, this was referring to the review of the plans.—

You-know, how they were being carried out at that particular point in time.

Q I see.

A It was not a long-term charge.

Q You did mention one council meeting, I believe you said --

A Yes.

Q -- on Friday afternoon.

A That's right.

Q Was that the first council meeting, or can you describe to me the activities or actions of the Council itself during this time period.

A Okay. The only All that I am aware of is the meeting that I attended. I do not know if there had been a council meeting prior to that time. It was clear at that meeting there had, at least, been prior discussions among individual members. A. ether they had met as a group, I am not

aware of

At that meeting, it was principally going through each department and discussing what their particular responses that been and were being and planned to be for the incident.

It was very clear at that meeting that this was not the first informational meeting. I don't know if they had met as a group or if they had been contacted individually.

But they were at that meeting prepared to respond to what was being done in each department, and everyone seemed to be would may, reasonably well aware of the consequences of their department and what had happened.

- Q Were there any subsequent meetings to your knowledge of the Council?
 - A Not that I am aware of.
- Q You say there is no written report. And you mentioned some actions you were taking. Did you have any overall recommendations to the Governor or anyone else regarding preparation for emergency as a result of your work?

A Yes, we did come up with recommendations for executive orders that would have to be promulgated in the event that an evacuation occurred. Some of these are quite minor but were details to be covered.

These included such things as taking over the turn
but important, Step is

pike, for example. Minor thing to make sure that no one tried

on the Turngilee

to collect tolls Taking over the gas stations to make sure

that we assumed that we would have to have the National Guard actually operate many of the gas stations and be prepared to make sure that the National Guard had equipment to cut off locks of the pumps and so faith and actually get the cars moving because Gars would be the principal means of evacuation.

We had coordinated with the oil companies to make sure that they were moving in extra reserves. This was during the energy shortage. There was at least an energy shortage at that time, if you remember. We were moving in tanker trucks whe area at this particular point in time. I had this series of executive orders that would have to be promulgated simultaneously with a declaration of emergency. We communicated those to the Attorney General. I assume that they were drafted. I never saw them. But I assume that they were drafted in preparation for evacuation.

Q Did you determine the consequences of an evacuation from a liability standpoint or maybe a health and safety standpoint might be a significant problem or --

A I never heard anyone address really the liability concerns. The health and safety were paramount I think to everything that we did.

The great concern about an evacuation as far as

health and safety is the -- if you think about it for a moment,

at institution

the hospitals were down to a third -- the population was down.

Since mishthemal staffs in some cases were down to one thing to almost a third to what they had been. And the only patients that were left were the ones that it would be difficult for them to go home on their own. You have a large number of people on life-support systems. You have people that have undergone surgery recently and some in intensive care.

You have children, the babies in incubators. These are things that I never thought of before, the potential loss of life in ordering an evacuation that isn't necessary.

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were convinced 1- It is one thing to -- if we would have ordered a five or 10-mile -- or the Governor would have ordered a five or 10-mile evacuation at some point, that would have immediately heightened the concerns. We already had people leaving within considerable distances because of this fear of the unknown.

happened in the hospitals Could we have kept the ? Would we have been forced to continue the evacuation out some distance?

Would we have lost lives in moving these people? Those are great concerns. And we discussed them considerably.

We tried to make sure if an evacuation became necessary that we would have the ambulances available, the litters. We were working very closely with Mr. Adamcik to get federal assistance.

Q Would it have required a substantial federal response

from a resource standpoint to evacuate 10 miles or more?

A The 10-mile evacuation, if I remember correctly, did not require a substantial amount of resources in the near term.

In the long term, of course, is these people would be at the evacuation centers, the more difficulty we have.

The biggest requirement was for ambulances, and those were being moved into position, as I understand it, by the federal government.

A 20-mile radius, of course, would have required a mount of blankets and beds and so forth beyond what we could get from the American Red Cross and other present agencies. But the Red Cross was able to supply most of the equipment that was required, with the exception of the ambulances.

Q I assume you were at most if not all of the press conferences and major meetings and so forth held by the Governor, at least from Friday on if not before?

away from the Governor's office. I thought at that point there were enough resources involved. And I think the magnitude of the crisis office. I scalated between Wednesday and when I became module.

Priday morning A See I am relatively unaware of what happened other than what I read on Wednesday and Thursday.

From Friday morning through the following Wednesday or Thursday I was, with a few notable exceptions, present at

those meetings.

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Q At these meetings, was Colonel Henderson or his representative present for most of them?

- A Most of the meetings, he was present.
- Q He was present?
- A 'es.

Q Apparently, the Governor decided at some time early on, I guess, to rely primarily on his press conferences to disseminate information to the public. And there was some concern, apparently, at the county level and even at PEMA, apparently, that they were getting information late or after the press and public.

We were wondering why there was not maybe a simultaneous information release to the counties or PEMA or other state agencies at or about the same time as the press conferences.

A If you look at press conferences for what I think they were was a public statement of exactly what the position was at that point in time. And If you look at the time lapse obtaining between the attainment of the information and the statement to the press, you will find in almost every case it was a matter of minutes.

One thing that impressed me throughout this whole series of meetings was the fact that virtually everything was released to the press and everything was released publicly

very shortly after it was received by the Governor, and that Mr. Denton certainly maintained a complete flow of information and the Phoso. a right the Greener both to us A And normally we would hear it and he would walk out and give it to the press.

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The same thing was true with the Governor as far as all the information that we had. I suppose if we would have addressed those releases perhaps differently, it would have made people feel differently. I am not sure it would have changed the flow of information.

I think the information was there as soon as it possibly could have been there. It was maybe the means of communication that bothered people as far as -- I think it was almost more -- I don't want to say it -- how do I want to say concerning paraiability of information it? A feeling that just had no substantiation, that there was not more information than they were getting. It just wasn't true. 15 / Maybe that feeling could be ameliorated by taking some other action.

Q I was wondering about the timing of what one might call a normal official established means of communication through PEMA and the counties, if that could have been done simultaneously, or if there was a decision to do it --

It was being done simultaneously, but it was being done through the vehicle of a press statement. And, you know -- under normal times, one would tell all concerned parties Neliased fore the press statement was made, but there really wasn't

that kind of time lapse.

Q Was PEMA and the other state agencies -- maybe
Dauphin County -- advised as to the time of the press conferences ahead of time?

A PEMA certainly would have been. At least I say they were. To the best of my knowledge they were.

Apparently, the Governor established what one might call a command center to collect and evaluate information.

I guess it was staffed by Mr. Waldman, yourself and several others. Could you identify the others that were customarily involved in this process.

A Yes. I am not sure the term command center -- I don't know if that is the right terminology or not. Some of us were in the presence of the Governor more than others. -- And maybe I don't think there was any kind of designation as such.

The people that were present most of the time were, certainly, the Lieutenant Governor, myself, Mr. Waldman, Paul Critchlow and Jim Seif.

The next levely or degree of contact which was maybe who were — Included not there quite all the time but almost was Gordon Macleod, and Secretary of Environmental Resources, and when I say these people, they would bring different aides with them.

and have different aides with them and some of their staff:

But They were sort of the focal points.

as the incident began to develop, Mr. Penrose Holowell,

Secretary of Agriculture. Gertainly Gordon MacLeod and Cliff.

Jones were involved. The Secretary of Environmental Resources and Secretary of Health from the very beginning were present,

I would say, at almost all major meetings.

Q Did you mention a Mr. Seif?

A Yes, he is Special Assistant to the Governor. He was present at a lot of meetings. Mr. Henderson was present at almost all the early meetings. He was present at most of the meetings.

Q When did this group sort of come into being?

A There was no specific time. It evolved. When I became involved on Friday morning, certainly it was -- for all-practical-purposes, it had already come together.

Q What were the basic sources of information supplied to this group? On whom were you basically relying?

A It really depended on the issue. There was the Lieutenant Governor was clearly responsible for the the PEMA operations, and PEMA does report to the Lieutenant Governor. All the information on radiation levels, on the environment, of course, was coming through Secretary Jones.

When we got into the problems -- with potential problems with water and milk and so forth, the Secretary of Agriculture also became involved, particularly with the milk.

The information principally came — the technical information came from Mr. Denton.once he was — And it really became almost a sounding board for Mr. Denton. Believe me nothing he said was accepted at face value. It was examined and cross-examined and turned inside out, upside-down, until we believed — first that we understood what he was saying, and secondly, that there was some faith in what he was saying.

Secondly, we relied in the early stages on Chairman

Hendrie in calling him. I believe if you look at the itimerary,
we probably had three phone calls -- three very long phone

calls. And most of them were on the speaker phones with most

of the people I have mentioned in the room.

Q Friday morning --

Q

A There was one, I believe, Friday morning at 10:00 o'clock. There was one at 11:45, and one later in the afternoon. We had a call with Mr. Denton on the speaker phone in the afternoon, a meeting with Mr. Denton that evening.

And it was a question of filtering the information, of making sure that you believe the information and making sure that you are asking the right questions so that you are getting full information. And not even necessarily that these people are trying to keep information from you, but it is just what is important to you, they may not appreciated. And so that was the role played by this group, if you call it a group, to

serve that function. So, is it fair to say that basically the cognizant state agencies you were relying on was the NRC? For substantive information. You did mention Doctor Wald. Were there any other consultants, so to speak, or outside --No. And Doctor Wald was brought in at the suggestion of the Secretary of Health, and, as I understand it, he was 8 largely responsible for drafing the guidelines for the NRC. So, he was a very credible source. 10 You mentioned one lesson that might be learned from 11 TMI, namely that while one might plan for a specified, such 12 as a 10-mile radius of evacuation, one should also plan for a 13 ripple effect. Are there any other lessons that you think --14 Well, that is certainly one lesson. Another lesson 15 is the need for NRC or the appropriate agencies to re-think 16 what those radiuses are prior to an accident and develop some consistent planning assumptions, 17 -- you know, of you read the guidelines as I understand they 18 existed before, it wasn't even really a five-mile radius. It 19 was, I believe, a radius of low population density, which in 20 the case of Three Mile Island was/two and a half miles. 21

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So, you have all these conflicting kinds of numbers. You have a two and a half mile-radius, you have a five-mile radius. Then, we get into the discussion of this crisis and numbers were flippantly thrown around. There was a press

interview in — Saturday in Washington in which Chairman

Hendrie said it might be 10 to 20 miles. And that one small

statement and the problem that it caused in trying to put the

lid back on the population in Pennsylvania, it is hard to

exaggerate.

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It seems to me if we had some reasonable basis for what the difference in those areas are and we established some kind of radiuses and then stuck with them when we get into a problem, we would be a lot better off. Plus the fact that you can't draw the line clearly and you have to be prepared for the consequences, I think is important.

The other thing I think is important In emergency preparedness for people to address is the whole concept of fatigue and what it means to get into a crisis which is not of a limited duration. They all approached this as they do madent a hurricane in which the thing is over in 24 or 48 hours. And I have been on the periphery of some of these operations in the Defense Department. I at least have observed come: previously in long-term vigils, if you will, incidences that were occurring around the world and the discipline that is required in situations like this to make sure that you get a certain amount of sleep every day, and that important decisions may not occur in the first 48 hours but may occur three or Qater four days down the road. I think they weren't prepared to deal with that kind of a situation, and that is something that as we train people to deal in emergency preparedness, it is opposite. Some very important that people people looked very shell shocked assturday.

Governor's office almost immediately. There was always somebody around that was responsible. But they made sure that we
didn't extend ourselves to the point that we became disfunctional. I don't think that same principle was being applied
in the emergency management center. By Saturday the people
looked overfatigued. And we tried to insist that schedules
be established that because you do to know when the important decisions were going to be made. And you had to have
some reasonable degree of performances you have tried to
the kinds of lessons that I suppose Had we had an evacuation, I suppose we would have learned much, much more.

- Q Are there any ways in your mind that perhaps the federal or even state agency response could have been a little more effective?
 - A Yes.

- Q Pragmatically effective?
- A Yes. Mr. Denton's arrival on Friday afternoon. That he parrived -- a person of that level and that credibility -- that had he arrived two days earlier would have made a fairly important difference. Second, had we had the same response as visibly on the evacuation site would have helped. Mr.

Adamcik was detailed by the President and was given that authority. It wasn't communicated as clearly as it may have been.

realize It took also from the very beginning I don't believe that Mr. Adamcik understood what his charge was and that we really clariffed we had to clariff that through calls to Mr. Watson. Had you had a similar response on the outside of the issue and had it occurred on Wednesday, let's say I think we could have had a very coordinated and smooth running operation if we had had a federal advisor and evacuation plan and a federal advisor on the technical aspects on site on Wednesday.

of course, it is easy, obviously, to do these things in retrospect. And for the future I think it is important, and quickly detail these produces and to very clearly identify their responsibilities.

Mr. Denton came knowing that he was the President's special representative on the scene and had all kinds of authority. It took a little longer for Mr. Adamcik. I don't think he was given as clear a mandate as he could have been given.

And the other thing I think that was important was

to make sure that these advisors know each other and, you

condinated

know, are prepared -- not that that was a problem here, but

there
it could have been. That they know each other and are prepared

to work together. I think that would have helped. It would have helped immeasurably is this particular thing.

Are you asking the questions as far as response to an incident?

Q Yes. Yes. I think the same question might be asked as far as planning for an incident, but the question was with regard to response.

Did the state suffer from perhaps the same kind of a problem, a coming together? You seemed to come together once you realized that you had a serious event, and that is human nature.

A Yes, we did have the advantage. I think the advantage in the state is that it is smaller than or focused on the scene and that the Governor is in charge. And, of course, you don't have these problems as far as who is responsible.

Everybody knows who is responsible. Everybody was cooperating and working together. I don't think we had that problem.

I am not sure -- it seems difficult to analyze yourself as easily as it is to analyze others. Maybe I will let
somebody else analyze our response.

Q You mentioned a difference between the response per se and the planning. Do you have any observation or more effective planning or readiness?

A Well, I -- a large part of the plans that exist really do depend upon the plan itself and the operators of the

plan. You know, your protocols as far as the radiation side of it, the evacuation side of it, are all triggered by information received from the plant.

responsibility for making sure that the resources exist within and adequate. This must the plant and there is either the state government or the federal government. I believe at the current time, it is the federal government that has that responsibility. And I think, you know, you can't start talking about evacuation plans from the time -- you know, down the road. You have to get back to the very first day.

And I think one of the major shortcomings -- and again I hate to be in a position of pointing the finger at at the plant everybody else -- but the capability from my observation just simply wasn't there. Again, I am not an expert.

Q That is Met-Edison at the plant?

A As far as early response, the technical expertise that existed -- and that is the first step in all the evacuation plans as well as it is in the prevention of an accident occurring. So, I think -- that is very important.

Apart from that, one could talk about having much better, more detailed plans. I think it is an important exercise, but it is an exercise. And when you get into the actual incident occurring, you really have to adjust those plans dramatically anyway. I am not sure we can do all that much

of wind and -- you know. But a better understanding, obviously, it would help a lot. Just a better understanding of things I mentioned before and how the cycles change.

In your judgment -- and it is a judgment question, I recognize -- but since you were rather heavily involved in the plans themselves, and pragmatically involved rather than a paper exercise, as you say, how long do you think that it might have taken from the time of notification, say, on Wednesday to conduct a five-mile evacuation?

A Again, it is very subjective. Let me work backwards. On Saturday I think that could have been done in two to three hours. The afive-mile evacuation. All I could say, it would be several times that amount, I believe, on Wednesday morning. You had more people in the area. You had institutions -- at least a very large nursing home that had not been evacuated. It had been by Sunday. You also did not have the psychological preparation for it. an execution.

It is very difficult for me to answer it other than saying what it was by Saturday. And Saturday, I think two to three hours is a reasonable estimate. So, we are talking about, oh, pick a number as far as what it might be on Wednesday.

Q To your knowledge, did anyone look at the cost of evacuation? I don't really mean just the financial institutional cost but all the other kinds of costs, too, and maybe

the cost to society, loss of business and things like that.

Were there any estimates made of the balance on evacuation costs versus health and safety benefits of an evacuation?

A You know, it is interesting. We kept looking at the health and safety costs of an evacuation. I don't think we really looked at the economic cost of an evacuation. I don't remember it being andiscussion, but we continually talked about what was likely to be the cost of evacuation in terms of human life; how we could control that.

Q Were there any documents that you are aware of giving estimates of this nature, perhaps from some of the hurricane evacuation or statistics of that nature?

A No. No, but you know, in a hurricane evacuation, if I understand correctly, usually a lot of people are not evacuated from the hospitals. And the reason they are not evacuated from the hospitals is the risk of moving them is greater than the risk of leaving them there.

We did have considerable discussions with the Secretary of Health and others as to whether we could have that kind of a situation. I was not convinced you could.

I really am not sure people would have stayed behind.

People are very neroic and -- Nurses and lab technicians in staying behind who are threatened with their life. But they know what they are dealing with. And it is interesting -- it

is like the question with the National Guard. I think there is no question that you could send the National Guard into a flooding situation or hurricane situation. What the response would be in this kind of situation is very difficult to say because it has not been dealt with before.

But I don't believe you could take everybody out of hospitals in a hurricane evacuation. simply because we are however, talking about a total evacuation. And persons walking into that hospital — and he doesn't then are know if he is being exposed of not — is one thing. It is to the lot different than a situation in going in a boat, the office second floor.

Q The state law of 1978 -- I believe it was passed last year -- on emergency response appears to hinge emergency response on the Governor's declaration of a disaster emergency. Did the lack of such a declaration have any substantial effect on state agencies and their ability to respond or react or whatever is necessary?

A Not that I am aware of. I think everybody responded with the utmost capability to respond. Certainly nobody held back. This was discussed certainly.

Again you have to remember the population was one that was consumed with fear, at least from my interpretation, during that period of time. Anything that heightened that fear caused a response that was difficult to control. And that

was always in the back of our minds.

emergency. We discussed that with President Carter. It was discussed with Mr. Watson and it was the same kind of conclusion. That, steady as you go and try to be able to control response of individuals to the extent that we can as to what the real danger is. And

Q Is it fair to say then that was the controlling reason why the emergency disaster was not declared by the Governor?

A That and the assurances that were received from Mr. Watson that we would receive an identical degree of federal assistance if it were not declared. And statewise, we really had the capability, I believe, to do everything we could do.

There was nothing to be gained, and there was a risk.

Anything else at this time that you would like to state personally for the record that would enlighten us as to your activities or suggestions or observations regarding the TMI incident?

A I don't think so. I think we pretty well covered my limited involvement.

MR. ERNST: Any questions from the Board?

MR. HERR: No.

MR. SCHAMBERGER: No.

MR. CHIN: Doctor Wilburn, you have been referring

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