NUCLEAR REGULATORY COMMISSION

IN THE MATTER OF:

THREE MILE ISLAND SPECIAL INTERVIEWS

DEPOSITION OF CHARLES A. CROWE

Place - Harrisburg, Pennsylvania

Date - Friday, September 28, 1979

Pages 1 - 30

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NATIONWIDE COVERAGE - DAILY

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1	UNITED STATES OF AMERICA
2	NUCLEAR REGULATORY COMMISSION
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5	In the Matter of: :
6	THREE MILE ISLAND : SPECIAL INTERVIEWS :
7	x
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9	DEPOSITION OF CHARLES A. CROWE
0	Holiday Inn
11	

Holiday Inn Town Motel 2nd and Chestnut Streets Harrisburg, Pennsylvania

Friday, September 28, 1979 1:00 p.m.

BEFORE:

For the Nuclear Regulatory Commission:

MALCOLM ERNST FREDERICK HERR PETER SICILIA, JR.

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1	c o	NTENTS
2	WITNESS:	EXAMINATION
3	Charles A. Crowe	2
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6	<u>E X</u>	KHIBITS
	EXHIBIT NUMBER:	IDENTIFIED
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PROCEEDINGS

- (1:00 p.m.)
- 3 MR. ERNST: Let's go on the record.
- 4 Whereupon.
- 5 CHARLES A. CROWE
- was called as a witness and, having been first duly sworn,
- / was examined and testified as follows:
- 8 IYAMINATION
- BY MR. ERNST:
- 10 Please state your full name and title for the
- 11 record.
- 12 A I am Charles A. Crowe, nuclear civil protection
- 13 officer, Pennsylvania Emergency Management.
- I want to put on the record the fact that you have
- 15 received this letter from us earlier asking you to attend
- 16 this deposition.
- 1, A Yes.
- MR. ERNST: I will mark that Exhibit 1.
- (Exhibit 1 identified.)
- 20 BY MR. ERNST:
- 21 2 I will note that inadvertently this said, "Dear
- 22 Mr. Williamson," even though Mr. Crowe was identified as the
- 23 earlier addressee. This was a clerical error.
- 24 Mr. Crowe, this Exhibit I, this letter, is a photocopy of
- 23 a letter sent to you by us confirming your deposition. Have



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you read this document in full? ripLRW 1 I have. Do you understand the information set forth in the 3 letter including the general nature of the inquiry, your 4 right to have an attorney present as your representative. Š and the fact that information you provide here may ó eventually become public? A I do. 8 Is counsel representing you personally today? A 10 No. I would like to note for the record the witness is 11 not represented by counsel. If you feel like you would like 12 to be represented by counsel at any time during this 13 deposition. please advise me and we will adjourn and give 14 15 you time to have counsel. Is this procedure agreeable? 15 17 A Apsolutely. Mr. Crowe, is this a copy of your resume that you 1.3 19 brought to us today? A 20 Yas. MR. ERNST: I will mark this Exhibit 2. 21

BY MR. ERNST:

educational and employment background?

Q Does this resume accurately summarize your

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(Exhibit 2 identified.)

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i	A Yes, generally it does.
2 .	The first question I have today is: I wonder if
3	you would describe your routine assigned duties at PEMA?
4	A Routinely, I am assigned as the nuclear civil
õ	protection officer. That particular position involves
5	planning concerning crisis relocation and the in-place
7	shelter program of the State of Pennsylvania.
8	When you say nuclear, is that just fixed facility
4	or is that any -
10	A The title has to do with the civil defense aspects
11	of Pennsylvania's emergency management agency. The nuclear
12	civil protection program is a specific program which DCPA
13	has sponsored. OCPA, of course, FEMA now. I am on a
14	contract through DCPA for the state. That essentially is
15	one of the nuclear civil protection offier. It does not
15	involved itself specifically with fixed facilities but
1 /	rather with the war potentiality, having to do with nuclear
13	war.
19	In PEMA, is there a difference between what you
20	would do in the event of an emergency that might involve
21	evacuation of people from a nuclear occurrence as opposed to
22	something like a flood or chemical spill or something like
23	that? Is there a difference in your responsibilities there?
24	A Obviously, in a time of emergency, the

25 professional expertise available in PEMA is utilized in the

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most appropriate role. Since there are a variety of circumstances which might involve evacuation, I could be involved or not depending on the situation. A hazardous 3 spill, for instance, a tornado potentiality, a flood, one thing or another, all have some evacuation aspects, whereas Š the crisis relocation plan, which I am working on, is a long range program involving the possible evacuation of two-thirds of the citizens of Pennsylvania.

With regard to TMI, I wonder if you might now describe your assigned duties during the first week or two 10 of the TMI accident and how these might be different from 11 your routine duties. 12

Very well. I was in Pittsburgh on March 28 prefifing Allegheny County civil defense personnel on the crisis relocation program and associated matters. I returned to PEMA in Harrisburg around midday on Thursday, which was essentially the second day of the incident. At that time we had no indication of a requirement for evacuation radii greater than five miles. We did not receive an indication this would be required in the following day.

In the late afternoon or early evening, there was an indication that a 20-mile evacuation plan should be prepared. At that time I had the people who worked for me in the nuclear civil protection section prepare a rough

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recommendation thjat would take into account population densities and appropriate routes for evacuation of such a radius.

Obviously, since the counties prepare the real 4 implementing plans for such an eventuality, this was a guide 5 in the event the counties had nothing better to start with. A position from which coordination and other considerations having to do with possible evacuation, this might be a 8 starting point for such considerations. This is the item which I considered background information which will explain 10 how this was done. It's merely a recitation of 1970 census 11 track data by township, borough, et cetera. Then an 12 analysis of roadmaps to take into account what density we 13 believe the roads could handle expeditiously and which 14 routes people from these townships might follow. 15

with this information in the hands of the county planners and the coordination efforts of the Pennsylvania state police. Pennysylvania Department of Transportation and National Guard, a detailed plan by county could be worked out. The problem is to assue that with some 600,000 plus population to be moved, that there were no ambiguous assignments of routes, no duplication, no failure to take into account best available routes. Yet this remains a recommendation only.

MR. ERNST: I would like to note for the record

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- Mr. Crowe has given us a document of some 2/ pages which
- 2 apparently consists of puplation centers around TMU and a
- 3 map of the area. I will mark this Exhibit 3.

(Exhibit 3 identified.)

5 MR. ERNST: I would also like to note for the record that Exhibit 2 consisted of two pages.

BY MR. ERNST:

- You mentioned that this was a guide to the counties. Were these routes that you provided as guidance worked out just within PEMA or were they worked out in conjunction with the state police before they went to the counties or what was the interaction before the information was sent to the counties?
 - A This information was handcarried to the counties by county representatives of PEMA who were assigned to assist the counties. It as made known by me to each one of those who had a copy of this the fact that it was an initial position from which planning could proceed further, that Penn DOT and state police plus the National Guard as appropriate would work with the counties in coordination.
 - Now, after the county plan had been analyzed, if this was to be helpful, fine. If the county blan was adequate without that, fine. But it was a matter for coordination and the result is in the additional map which we can discuss later, which was a confirmation of a coordinated position

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between the six counties involved, PEMA, Penn DOT, and the

state police as to what would be the best routes for an

3 orderly movement of the risk area.

4 Q And this larger map you referred to, this was

generated about when?

5 A This was worked on from the time the document

which you have called Exhibit 3 was distributed. We

3 continued to work with the counties and sdtate police and

Penn DOT in correlating the information and we came up with

10 a final position which was printed on April 4. This

11 reflects for particularly state agencies what the plans of

12 the various counties were. Obviously, they already

13 confirmed their plans along before this but we wanted a

coordinated document so particularly the state police, when

assigned to do traffic control work, would have a copy of

this and would understand what population densities to

17 expect on which specific routes.

13 100 copies of this were made available to the state

police. Additional copies were made available to counties

2) for planning purpose. Much more information could be

21 included but from a state view, this was a position which

22 was a basis from which other agency and department

23 activities could be developed. Whatever information they

24 wanted to put on, they could put on. Traffic control

23 points, location of any type of vehicle, or any other



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ripLRW 1 consideration that a planner might want to have.
         2 So the distribution was sufficient that we had a piece of
             paper which was a common tool for those working directly
            with the problem.
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On April 4th, I believe you stated was the time this document was prepared. About what kind of time frame would you say that the route decision had been made, the decision that fed into their document?

A The decisions had been made from the time the counties were apprised of the fact that we were going on a 20-mile route. They were refined. This is a representation of a refined position; not a first position, but a refined position and a coordinated position.

As I remember, there was a document sent to the counties with recommended routes -- guidance, I believe it was -- that subsequently some problems were identified regarding one-way traffic and things of that nature. Could you describe this particular document, when it went out, and what some of the interactive kinds of problems it uncovered, and what their resolution was?

A Well, we developed some initial positions, and the specific instance you are referring to, I believe, has to do with the use of the pattern pick by Dauphin County and Cumberland County in their planning. It was done somewhat independently. There did develop a mater of ambiguous utilization of the highway. It was exactly the purpose for which we sent people down to coordinate the matter and exactly what we wanted to preclude should the event take place.

I look at this as a positive product of the coordination

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process rather than a glitch in the guidance.

About what kind of time frame was this sent out, and this glitch discovered?

I believe you are still talking about this document right here, Exhibit 3, and the ongoing planning the county was doing independently, each of the six counties, on the use of their own routes. So I am not sure that we are talking about the same document. You refer to one. There could easily have been another one that you are referring to, but I am not quite sure what it might be.

Having not studied this document, I am not at all sure I can resolve that point either at this time. You also worked on a simulated evacuation time.

Yes. A

Could you describe to me the process of simulating the time required to evacuate the 20-mile area and what the results were?

Again, we get back to a detailed technical analysis of the population in the risk area, the routes avalable, and the pressure on what might be called traffic choke points. Their analysis was done for us by Pennsylvania Department of Transportation.

With that information and the judgment of myself and other people, a representative's signature, together with Penn DOT, a time frame for evacuation was developed.

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The time frame was based on a total population within the area to be evacuated. Further, it was based on the assumption that there would be adequate prior warning time to appropriate county and state officials that a precautionary evacuation might be recommended.

The reason I put the assumption in is this: Evacuation times under most ordinary condition will require that we mobilize the functional forces throughout the state necessary to assist in the evacuation; that is, call in State Police, National Guard perhaps, for security; getting school buses or other transportation available for those without personal transportation; provide for ambulances and other facilities for hospitals and nursing homes where nonambulatory patients will be moved; all these things considered and time enough to start.

Then we, using those assumptions, developed time frames that would be under relatively good conditions.

Now, with less time, we would not have as orderly an evacuation. On the other hand, at certain stages in the TMI incident, a large percentage of the population close in to the installation had spontaneously evacuated; so this, too, is considered a judgment thing that is time oriented as far as situation development.

So specific times are related to specific situations. the time these figures were developed, there was obviously a

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sense of urgency in the community. The functional staffs of counties and state will be mobilized to a great degree in the sense of organizationally ready. They still have to move to positions, et cetera. But at that time, with the sense of urgency that we had, we believed it could be accomplished with minimum disorder.

Q And what times did you come up with in this evaluation?

A We came up with seven hours for the 10-mile radius and 10 hours for the 20-mile radius; again, the assumption being that there was sufficient time to mobilize, et cetera, prior to this event, not just out of-the-blue recommendation or order to evacuate.

Obviously, it would take longer under those circumstances.

Q What assumptions, other than the state of readiness, were used in simulating this evacuation and arriving at the 7- and 10-hour figure?

A What other assumptions? I think we might call some of the thing assumptions and some facts bearing on the problem, population density by township, assumption that vehicles would more at 35 miles an hour, with a total population, three per vehicle, moving over the routes, Penn DOT's professional knowledge or road capacity, State Police professional knowledge of traffic control problems, all contributed to the findings having to do with movement.

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Now, an assumption of three persons per vehicle does not take into account vehicles like school buses which would take more people. Again, I said we knew that there was at one time a rather large percentage of spontaneous evacuees. There were a large number of spontaneous evacuees. All these pulled together, we still thought it was a pretty good estimate to hold the total population because other considerations: A, sense of tension and urgency, perhaps a few wrong turns and cracked fenders, stopping by to get Aunt Millie who might be in another direction from the direction we would prefer to go. All these contributed to an overview that still at that time would be a good planning basis to go on.

Q If you had to make a statement of the time period for 10-mile and 20-mile evacuation as of midnight Friday night, as opposed to the assumption that everything was ready to go for this magnitude of an evacuation, what times do you think would be reasonable and more appropriate?

A Well, for Friday night for 10-miles, if we had 10 to 12 hours of advance notice, I think we could have executed -not certainly in as orderly a fashion as later, as the items
were refined -- but we could have executed in a quite adequate
manner with 10- to 12-hours' notice. I am not saying 10 to
12 hours total. 10- to 1]-hours notice, we could have executed
in the time involved. Let's say something in the area -- this
is strictly conjectural. It has to be a personal opinion. I

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would say for 10 miles, let's start at around 15 hours is how long we could think it might be done in an orderly manner. Less than that time, you will have accomplished the evacuation of a number of people.

Where I have given you the time of about 15 hours, that's saying, "Okay, we have also made the majority of the arrangements to do the whole thing in an adequate manner. That is concerned with hospitals and nursing homes and public school transportation and a number of other things.

Obviously, on Friday night, the plans were in sketchy form as far as written material. But we have got to understand that many of the people who are involved in doing such have done it under other circumstances for other programs, hazardous spills, floods, and other matters.

Therefore, we must give consideration to the personal capabilitites of the people who, by word of mouth, have set up something that is a currently urgent problem, and then we get it down into a more refined written form that is understandable to the outsider who has not been personally involved in the functional development of implementing capabilties.

- But your initial judgment still is 15 hours, give or take some number of hours I am quite sure, but on the order of 15 hours to complete an evacuation including your hospitals and nursing homes, some of which would be orderly --
 - It's getting a bit difficult right here. We are

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got to bring in ambulances from outside counties. Our planning recognized we are looking at 20 miles. We were looking at 20 miles by Friday night; 10 miles was an inside cabability.

Our plan had to be predicated on 20 miles.

So you're asking me for an opinion on Friday night that has to do with a matter we had already pushed out to; our concerns and considerations involved a much greater number of people, more than four times as many are involved. So that was what we were thinking about, better said, than we were thinking 10 and then thinking 20. We jumped through to 10 very rapidly and started thinking 20.

Q What would your judgment be for a 20-mile evacuation of Friday night?

A Interestingly enough, I don't think there is as much more time involved as might be considered necessary with that greatly increased number of people. More time means we had more time to bring in outside resources, particularly transportation assets for hospitals, such things as that.

I would say if we could go with a 15-hour as a first estimate here of the situation, having to pull all of the facts together again, I would say another three to four hours we could have done the whole thing. The work is going in all directions at once, not just in one little area.

Q Getting back to the planning aspect before

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Three Mile Island, I assume that one of your responsibilities was to review or coordinate, or whatever the best words might be, the county plans.

A No, that is an erroneous assumption.

My duties had to do with the nuclear self-protection program which was in place, shelter, and crisis relocation planning, not nuclear effects; had facility plans and not hazardous spill plans.

- Q But you did pick up the responsibility after TMI of coordinating these plans?
 - A Yes.
- Q In your view, what was the state of adequacy of the county plans that existed at the time of TMI?

How much upgrading was necessary, as opposed to desirable?

- A Well, I am going to qualify --
- Q The five-mile plan I am now talking about.
- A All right. When I became interested in the problem, we had already passed the five-mile plan. The five-mile plan dealt with about 25,000 people roughly. The five-mile plan had been judged adequate, but we already escalated into five times that many people at 10; 25 times that many people plus 22 20 miles. So the adequacy of five-mile plans is -- or was not a matter of great concern to me then. We were in a whole new ball came.

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MR. ERNST: Off the record.

(Discussion off the record.)

MR. ERNST: Back on the record.

BY MR. ERNST:

Q Are you aware of the Daupin County emergency preparedness plan dated April 6, 1979, signed by Kevin Molloy and John Minich?

A Yes, I am.

Q Was that plan and the other county plans developed subsequent to TMI reviewed or commented on or concurred in between counties by PEMA?

A Let me answer that question by saying our role at PEMA in development of these plans was to ensure there was coordination, county-to-county, and to assist the counties as far as planning goes.

Now, we also had in the counties representatives of our office -- that is, area directors plus DCPA personnel to provide assistance.

Now, in each case, the personnel -- outside personnel as well as inside personnel, speaking of counties -- assured me personally that their view was that plans in each case, for six counties, was that they were adequate for the problem.

Q We have heard several times that when you get to the 20-mile evaluation area, you are talking not just the six counties, but you are talking numerous host counties.

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Yes. A

Is it fair to infer from that that these host counties were part of that planning process and were aware of at would be called upon in the way of mass care. stores, and things of that nature in the event of that kind of an evacuation?

Yes, it is fair to say they were aware of this.

Now, the approach used was again that PEMA act as a coordinating agency for assistance. DCPA provided representatives to the great majority of the so-called lost counties to ensure that the planning was adequate in the sense of when additional assistance was needed / : not. These representatives of DCPA, as they completed their effort, they came back through our office and we debriefed, plus they provided us materials having to do with the written aspects of the problem and any problem areas that were involved.

The counties, however, in the initial instance, had made direct contact with other counties to ensure that their citizens could be accommodated in the host counties. As an example, a county north of Dauphin County would be contacted by a representative of Daupin County with an inquiry: Can you take, for mass care purposes, some of our citizens? If so, how many?

In this manner then arrangements were made. Now we assisted as we could. We correlated the information to include resource requirements. And with the debriefing materials that we had

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from the mass care counties or support counties, host counties, as you will, we coordinated this and made it a little better.

Now we are dealing with a number of counties, 26 to 30, depending on last-minute arrangements, whether or not Lancaster still is going to evacuate, and other considerations.

This was not the highest priority in the beginning. The highest priority was to ensure orderly, safe evacuation of the risk area. The second priority was to assure there were adequate resources available to care for the people on the other side. I am not saying it is not a highly important matter, but the first concern is to ensure an orderly evacuation of the risk area.

In the area of response by DCPA, was there response in accordance with pre-planned criteria or the numbers of people they sent down and things of that nature? Was that pretty much in accordance with state-federal agreements?

I think I am really not the source for the best judgment on that. I was planning -- from my view, DCPA was extremely helpful. They did a fine job in providing personnel and assistance. But as far as judgment from the state as to state and federal arrangements, I had a piece of the information only working with the paper.

- Q In your view, was this assistance in this situation critical?
 - A It proved to be extremely important to have some of

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the very fine planning assistance that we received from DCPA on the scene.

Could you describe what has happened since TMI regarding the upgrading of county planning and local planning? I understand you are still in this area, actively working on the upgrading of county and local plans.

Yes. I am working with the counties with a team, if you will, representing various state agencies and our own FEMA offices trying to provide assistance to the counties in upgrading the written portions of the county plans to meet the new criteria that we believe NRC has decided on.

How about local plans?

Local plans essentially are a matter of county to municipality, borough or township. Obviously, they are of importance. Yet the state, with well over 2500 municipalities, would find it quite difficult to monitor each municipal plan. It's a county function. County commissioners, as elected ficials, and then the municipal officials, as elected officials, we believe have that responsibility -- not to say we would not provide assistance as required.

Have you provided the counties or the locals any upgraded guidance as to what should a good plan consist of and how should it be structured, and who should be responsible for what, and what kind of time frame, things of that nature?

We are working with the counties in upgrading their

plans. We have not distributed a model in the sense of each county having certain unique concerns and considerations. We have sample materials that are available. represented by various county plans from TMI, for example. We are working with the individual plans to ensure that they 5 are adequate for the populations in those counties. Our 6

priorities are Beaver Valley, Peach Bottom, TMI, Berwick, and Limerick.

In your efforts to upgrade county planning for 10and 20-mile evacuations, are you aware of any groups or persons either appointed by the Governor or perhaps some other agent whose task was to also assess qualities and state of preparedness during this -- say, the time frame of Saturday, Sunday --

You are talking March --

March 31, April 1, that kand of time frame.

I was not aware at that time of anything having to do with evaluation of plans.

Now, other aspects, remembering I was not privy to particularly -- in other words, what were the county commissioners doing, or one thing or another? It wasn't necessary that I know if such things were going on. That was not part of what I was charged with doing.

Q What level of detail to you believe should be continaed; state plans, county plans, and local plans?

A I think you will have to be a little more specific on than that.

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All right. The state plan basically has sonLR# assignments of general responsibilities. The county plans pefore TMI consisted largely of assignment again of 3 responsibilities and appeared to contain little detail 4 except for perhaps notifications, telephone numbers for ċ ó notification. And, as I understand it, there were very few, if any, formal local plans. Since TMI, there have been county 3 documents produced that go into quite some detail, such as the Dauphin Country plan of April, that goes into quite some 10 detail as to who to call and what evacuation routes and who 11 puts up what signs, where, how many vehicles should be 12 available and where should they go. 13 A very great amount of datail as to who should do what 14 and when and how. My question is: what kind of level of 15 detail in your judgment is felt to be necessary or useful, 15 one or the other, for the three levels of planning? 11 Namely, state, country and local. 13 Wall. I will answer your general question in a 17 general way. The state plan should provide necessary 20 guidance to the counties, particularly in the manner of 21 coordination. It should also provide for a general 22 description of state agency involvement, and if appropriate, 23

The county plan obviously would be more specific. Yet,

relationships with Federal agencies.

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if you are dealing with tens of thousands of people,

obviously the implementing instructions that would move Joe

3 Doe from 123 Main Street through a particular route to a

reception center where he could be cared for would be too

5 much detail for the county plan. That is a trade-off.

A plan that is too detailed at a given level is not a

7 good guide for the managers who must take that plan and

adapt it to the specifics of the given situation. Each

situation will be somewhat different.

30 if you provide exhaustive detail in the country plan

that goes all the way down to the individual, we you taken

12 into account weather, have you taken into account time of

13 day, have you taken into account a particular hazard

14 analysis for the plant, which, by the way, we don't have?

15 Each of these situations will dictate an adjusted

15 response. If the detail in your plan at the country level

1/ addresses a particular situation and the situation as it

13 develops is somewhat different, you may have a plan that is

not as useful as you would like. It might not be useful at

2) all. So I think we must be a little wary of believing that

21 a piece of paper can provide an exact response to the

22 multitude of shaded situations that could develop.

Now that was by comment everything to do with the county

24 sige. Now the municipal plan I think should provide

25 particularly for the notification of individuals in the

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- area for which this local governing body is responsible.
- 2 That is a particular thing. We could have published,
- 3 however, general plans for the country that could be adopted
- 4 and state plans and what not that would provide for
- assistance and coordination, but when it gets down to
- 5 individual notification, that being an important aspect of
- the matter, perhaps it is the fire company that will have to
- 3 knock on doors in a certain rural area, you wouldn't want to
- detail that in a county plan. That is more appropriate to a
- 10 municipal plan.
- I don't know whether I have answered your question, but
- in general that is my view of the planning approach.
- 13 . Q Is this kind of detail, wherever it may occur --
- 14 we are assuming now it occurs in the local plan, or more
- 15 appropriate in a local plan is this kind of detail
- 16 critical to effective evacuation?
- 1. A Let me say that whether it be in writing or not,
- 13 it is critical, but the problem to be considered at every
- 19 level of elective authority, from the local to the federal,
- 23 is that hopefully a functional organization exists which
- 21 could respond to the situation at each level. That detail,
- 22 whether it is in writing in a voluminous document, or
- 23 whether it is an arrangement which can be made which might
- 24 easily be that fire company A will contact all personnel on
- 25 this route and from this street to this street without

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going down to Joe Doe individually — this again is where the unique considerations of planning in each community come to bear and where it becomes difficult to design a model that will fit each situation without taking the risk of not considering unique problems in one area.

As an example, school children in an urban area as opposed to school children in a rural area. A situation or incident which occurs during school or after school. How do you handle that? Each community has to be satisfied that that is handled adequately. But it is a community decision.

BY MR. HERR:

I would like to get a little bit more specific information on how you coordinated the county plans. As I understand it, you held a series of meetings on Saturday with — let me ask the question. Were there a series of meetings held on Saturday and who were they with?

A Wall, you understand our operation in the amergency operation center of people and where we have response team representatives from various state agencies thera. You also understood we had direct lines to each county concerned.

There was, of course, communication by telephone with the counties directly. There was communication with the state agencies involved in meetings either with representatives of the agency who came in or where their response team

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- representative, who are capable of making decisions for the
- 2 agency concerned. This particular document, which is
- 3 Exhibit 3, was explained in meetings on an individual basis
- 4 with various agencies and various county representatives or
- our own representatives of people and who were sent to the
- 5 counties.
- They weren't so much called for a particular hour, but
- 3 they were done as the opportunity presented itself to
- provide information to agencies and activities that needed
- 10 this information.
- I understand that a specific meeting was held with
- 12 the state police. I believe three representatives of the
- 13 state police. It is my understanding that that meeting was
- 14 to coordinate the overall state police response and to
- 15 provide coordination of the various county plans.
- 16 Is it fair to say that the individual people and
- 17 representatives and the individual representatives of the
- 13 state police that were assigned to each of the counties were
- doing extra county coordination and that these meetings with
- 20 you or the discussions with you were the intercounty
- 21 coordination mechanism?
- 22 That the state police and counties weren't expected to
- 23 coordinate setween counties?
- 24 A Well. I don't want to say that they weren't
- 25 expected to. State police can talk to their state police

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- counterpart in the next county. If it was a
- 2 Daupnin-Cumperland County problem, there is a phone there.
- 3 Call up and say it doesn't look like this particular traffic
- 4 artery should be utilized the'r way.
- Ine meetings on Saturday, I me. at 10:15 with Jim Cox
- from the police and gave him a briefing on the approach we
- thought was appropriate. 4 p.m. I briefed other state
- a police officials on this same matter. We hoped to have by
- this arrangement representation from the state police in
- 10 each concerned county to be sure that the police approach
- was recognized and their assistance was incorporated into
- 12 the county's effort.
- 13 If there were problems, that is what we are for, with the
- 14 response team capability 24 hours a day in our EOC from the
- 15 state police. They had this, for example, as did other
- 15 agencies. We had, as I recall, a specific instance where
- 1/ there was a misinterpretation in one of the counties by the
- 13 state police representative who went down. I talked to that
- 19 state police representative and we got an understanding of
- 20 what was hopefully to be accomplished. There was no
- 21 difficulty.
- 22 There were multitudes of telephone calls to be sure that
- 23 everything was going without difficulty. That earin is the
- 24 purpose of coordination. Why we had good communications
- 25 with the county and we used the response teams and met with

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- sbnLRW 1 their management personnel as appropriate to ensure these 2 others were coordinated.
 - 3 Was your primary communications link with counties 4 the phone?
 - 5 A Mine was.
 - 5 The two-way communication?
 - A Mine was. And as the opportunity presented
 - 8 itself, visits from the county to talk over whatever I had
 - if there was a representative from the county who could get
 - 10 away, and they were quite easily as busy or busier than we
 - II were, trying to put their plans together.
 - 12 So it amounted to telephone communication. For me, in
 - 13 the planning business. Now obviously the TWX, cable
 - 14 business and what not, was utilized. Mine was really trying
 - to put the plans together. Operations going on at the same
 - 15 time and a multitude of other things.
 - 1, Q Did ye experience any difficulties in your effort
 - 13 because of the communications system, because the phone
 - lines were overloaded, where you couldn't get throug! in
 - 20 communicating with the counties?
 - 21 A I wouldn't say it was always without problem, but
 - 22 I can't recall a time when an essential thing couldn't 53
 - 23 accomplished given a little more time.
 - 24 BY MR. ERNST:
 - 25 Q Do you have anything else you would like to state

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sonLRW	1	for the record at this time regarding any aspect of TMI that
	2	might help our inquiry?
	3	A No. I can't think of anything at the moment.
	4	Any recommendations, lessons learned?
	ó	A No. I think not. I am sure you have access to the
	5	various hearings that are in progress or have been completed
	1	and studies and what not. Many of these have had
	8	contributions from various representatives of people and I
	7	think a great amount of detail can be obtained from those.
	10	Things which have already gone on the record.
	11	In conclusion, let me say this is an on-going
۵	12	investigation. Although I have completed the questions I
9	13	have for you today, it is possible, however unlikely, that
	14	we would have to bring you back. I will certainly make
	15	every effort not to, unless it is necessary.
	15	For that reason, however, I will recess this deposition
	1,	rather than conclude it. I thank you very much for your
	13	time and trying to help us out.
	19	(Whereupon, at 2:00 p.m., the taking of the deposition
	20	was adjourned.)
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