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PRESIDENT'S COMMISSION ON THE ACCIDENT AT THREE MILE ISLAND

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DEPOSITION OF U. S. NUCLEAR REGULATORY COMMISSION, REGION No. I, by BOYCE H. GRIER, held at the offices of U. S. Nuclear Regulatory Commission, Region I, 631 Park Avenue, King of Prussia, Pennsylvania, on the 17th day of August, 1979, commencing at 9:15 a.m., before Robert Zerkin, Notary Public of the State of New York.

BENJAMIN REPORTING SERVICE CERTIFIED SHORTHAND REPORTERS FIVE BEERMAN STREET NEW YORK, NEW YORK 10038 7909060506

[212] 374-1133

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2	APPEARANCES:	
3	NUCLEAR REGULATORY COMMISSION:	
4	MARIAN E. MOE, ESQ.	
5	Attorney, Office of General Counsel United States Nuclear Regulatory Commis	eion
6	1717 H Street, N. W. Washington, D. C. 20055	51011
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8	PRESIDENT'S COMMISSION ON THREE MILE ISLAND:	
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	ERIC PEARSON, ESQ. Deputy Chief Counsel	
10	Sopacy shiel counsel	
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12	방법 전 경험에서 이번 것이 되는 것이 가지 않는 것이 없다.	
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17	BOYCE H. GRIER, having	
18	been first duly sworn by Eric Pearson, Esq.,	
19	took the stand and testified as follows:	
20	DIRECT EXAMINATION	
21	BY MR. PEARSON:	
22		
	Q Would you state your name, please?	
23	A Boyce H. Grier.	
24	Q What is your position with the Nuclear	
5	Regulatory Commission?	

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1	Grier 3
2	A Director, Region I.
3	Q Could you explain very quickly what your
4	responsibilities are in that position.
5	A To direct the program of the Office of
6	Inspection and Enforcement in Region I. Region I is
7	the geographical area of 11 northeastern States and
8	the District of Columbia.
9	Q Initially, I would like to ask you a
10	number of questions with respect to Region I, and how
11	this office functions. To begin the discussion, I
12	would ask you to explain what your role is routinely
13	as it relates to the Nuclear Regulatory Commission
14	headquarters in Washington.
15	A I report to the director c; the Office of
16	Inspection and Enforcement, and it is my responsi-
17	bility to see that the inspection program, as defined,
18	is implemented within Region 1.
19	Q Do you receive your policy directives
20	from the Office of Inspection and Enforcement in
21	Washington?
22	A Yes.
23	Q How large is Region I?
24	A In numbers of people?
25	A Numbers of States.

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1	Grier 4	
2	A 11 northeastern States plus the District of	
3	Columbia.	
4	Q How many nuclear facilities are under	
5	your charge in Region I?	
6	A There are currently about 20 operating reacto	rs ;
7	there are others under construction, the numbers of	
8	which I do not have at hand immediately.	
9	Q An estimate will be all right.	
10	A About 10, I guess, or so under construction.	
11	There are about eight fuel facilities and some 3,00	0
12	byproduct materials licensees.	
13	Q How many professional employees work ou	t
14	of this office?	
15	A About 110 here at present.	
16	Q Can you give me very quickly the number	of
17	persons of that 110 who are involved in direct insp	ec-
18	tion and enforcement activities in the field.	
19	A Well, all of them are if you include the supe	r-
20	visors; 90 of those are inspectors who actually go	into
21	the field for inspection.	
22	Q Is the Nuclear Regulatory Commission,	
23	Region 1, divided into different divisions under you	r
24	general supervision?	
25	A Branches. Four program branches plus a fifth	

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administrative branch. The four program branches are
 Reactor Operations and Nuclear Support, Reactor
 construction and Engineering Support, Fuel Facilities
 and Materials Safety, and Safeguards.

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6 Q Would one person from each of those four 7 program branches that you mentioned have within his or 8 her responsibility a certain number of nuclear 9 facilities?

10 A If we limit it to nuclear facilities, reactors 11 either in operation or under construction, there is a 12 project inspector assigned who is the principal 13 inspector for that facility for operating reactors; 14 the project inspectors in the Reactor Operations 15 Branch for facilities under construction are the 16 project inspectors in the Reactor Construction Branch.

Now, there are specialists in all branches who
 are involved in the inspection program at reactor
 facilities, but the lead responsibility is either with
 reactor operations or reactor construction.

21 Q With spect to reactors in existence and 22 operating, do you have a policy which indicates a 23 minimal number of inspections per year that must be 24 conducted?

A The inspection program is defined in the ISE

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1 Grier 6 2 manual. Rather than prescribing frequency of inspec-3 tions overall, it prescribes frequency of certain 4 inspection procedures. The minimum frequency is 5 quarterly, so it would require -- I am limiting my 6 discussion to operating facilities -- it would require 7 inspections at least quarterly in order to meet the 8 requirements of the program. 9 Actually, experience shows that in order to 10 complete the program, inspections have to be done much 11 more frequently than quarterly, and probably on a 12 monthly basis. 13 Now, in the past we talked about inspection 14 frequency ovorall. In recent years we have defined a 15 program and frequency of particular inspection pro-16 cedures without saying how many inspections must be 17 performed per year so it is flexibility of inspections 13 in order to complete the program. 19 When you speak of inspection procedures, 0 20 do you mean the steps that an inspector must take while 21 on-site at a facility? 22 No, really areas that must be inspected. The A 23 program is defined on a functional basis, and the 24 particular program applicable to operating facilities 25 is defined in manual Chapter 25.15, that prescribes

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1 Grier 7 2 the program on an annual basis and identifies those 3 inspection procedures in the manual which must be 4 performed with prescribed frequency. 5 Now, there are areas in the operations area such 6 as looking at surveillance programs, calibration 7 programs; there are also procedures in the radiation 8 protection area which would define certain procedures 9 to be performed by radiation support personnel from 10 here, or environmental support personnel; other 11 procedures in physical security area that are 12 performed by safeguards inspectors, so the program is 13 defined on a functional basis for the various areas. 14 This must be a difficult question to 0 15 answer: 16 If one of your reactor inspectors would 17 go on-site just for a routine inspection, how would he 18 go about conducting that inspection; generally, what 19 would he look for; where would he go, and things of 20 that sort? 21 The routine would be absething like this: A 22 There would be have ou might call an entrance 23 conference; that is, the inspector would meet with 24 licensee management on-site to indicate his plans for 25 inspection and the areas which he would be inspecting.

1 Grier 2 If it is an operations inspector, the project 3 inspector, I would think, that he would spend his 4 initial period in looking at some of the operating 5 records, visit the control room, observe activities 6 going on. If his particular area of inspection might 7 be a surveillance program to determine the status of 8 the compliance of the licensee with the technical 9 specification requirements for surveillance, he would 10 go to whatever location on-site where surveillance 11 records are kept, meet with the licensee's individuals 12 responsible for the surveillance program; he would 13 review the records; he would look at surveillance 14 procedures; he would determine whether or not any 15 surveillance tests were in progress at that time; and 16 he would witness whatever tests might be performed. 17 Generally, our approach is to look at procedures for 18 performing an activity, to observe licensee activities 19 in carrying out that procedure, and then to look at 20 results that are achieved by the procedure. 21 Do inspectors normally schedule their 0 22 arrival with the utility, or do they simply arrive at 23 the site and indicate simply, I am here?

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24 Inspections are unannounced to the extent that A 25 they can be. Now, there are sometimes inspections

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1	Grier . 9
2	that require certain individuals to be available for
3	discussion or to be scheduled so that we can observe
4	activities that are going on which are conducted by
5	the licensees, so we have to know when that is being
6	performed, but typically the inspections are unannounced.
7	Q Would your inspectors when they come on-site
8	routinely do physical inspections of the actual equip-
9	ment or machinery?
10	A Well, to some extent except, understand, that
11	the only inspection we can do in that regard really
12	is visual inspection, so there might be inspection
13	visually to see that the equipment is in place, if it
14	should be operating, to see that it is operating to
15	the extent that you can tell by looking at whatever
16	indications of operations are there, but if you mean
17	by your question, do you physically inspect in terms -
13	of measurements of equipment or whatever physical
4.	measurements you might take, we do not do that.
20	There are some areas that we can make physical
21	measurements or independent measurements, particularly
22	in the radiological environmental area where the
23	inspectors who perform inspections in that area do
24	have instruments to measure levels of radiation. We
25	do independently take samples for analysis where we

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1	Grier 10	
2	have an analytical capability with the mobile labora-	
3	tory or some laboratory facilities here in the	
4	office, or we have laboratory support under contract	
5	with Idaho, so in those areas we can independently	
6	make physical measurements, but as far as equipment	
7	our ability to physically inspect is limited.	
8	Q Do your inspectors or some group of	
9	inspectors routinely check for emergency response	
10	capability at sites?	
11	A Yes, we do; that is a responsibility of our	
12	Environmental Support Section which is in the fuel	
13	Facilities and Material Safety Branch, emergency	
14	planning inspection is their responsibility.	
15	Q How would one of your inspectors seeking	
16	to determine whether a utility was maintaining his	
17	emergency response capability go about doing that?	
18	A First, the inspector would prepare by becoming	
19	familiar with the licensee's emergency plan, and then	
20	he would look at procedures, see that the licensee had	
21	procedures available to implement the plan; he would	
22	determine what emergency equipment is required to be	
23	available and see if that equipment is as required;	
24	he would also at times observe any emergency drills	
25	that might be scheduled by the licensee. Typically,	

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1 Grier 11 2 we would do that on an annual basis although I don't 3 believe we presently require that to be done annually. 4 Q Is it your policy that, as possible, 5 inspectors would attend those drills? 6 That is correct. A 7 Q Would your inspectors concerned with the 8 licensee's emergency response capability on-site check 9 to see whether equipment was operational such as, for 10 example, respirators? 11 I can't answer that. We would look at the avail-A 12 ability of respirators and should determine whether or 13 not the respirators meet whatever requirements exist; 14 that is, that they are approved respirators. 15 As far as actually determining the operational 16 ability of respirators, that is not routinely deter-17 mined, I don't believe. 18 Would the inspectors routinely check to 0 19 assure, for example, that telephone numbers of off-site 20 persons to be notified remain current? 21 a That is part of the inspector's inspection 22 procedure, yes. 23 Q Would the inspector also check to assure 24 that arrangements made with hospitals to treat persons 25 who might be exposed to excessive amounts of radiation BENJAMIN REPORTING SERVICE

1 Grier 12 2 remained in effect, and that the hospitals in fact had the capacity to do what they agreed to do? 3 4 A Yes, that is generally part of it. Let me point 5 out that is part of what we call the operationa' 6 preparedness part of our inspection program, before a 7 facility receives an operating license, one of the 8 things we do is specifically to review the whole 9 emergency arrangements at that time and make a deter-10 mination that they have been made. At that time, the 11 things you inquire about as far as hospital avail-12 ability and agreements with hospitals is a part of 13 the program. Then periodically thereafter with respect 14 to the annual inspection, the inspector or someone in 15 this area would look at certain parts of the emergency 16 plan. It may not be that we would look totally at the 17 plan annually, but some part of it would be inspected; 18 whether we look at hospitals every year I am not sure, 19 but it is a general or part of the program at some 20 frequency. 21 Q Is it also part of the program that your 22 inspectors would check to assure that utility 23 employees were receiving proper training with respect 24 to emergency preparedness? 25 A Yes, that is part of the program.

1 Grier 13 2 Would they check access doors, and things 0 3 of that sort to assure that if they were to be opened, 4 they were in fact open? 5 A I would expect that to be part of the program, 6 yes. 7 You have indicated, I think, that emergency 0 8 preparedness may be checked annually, or so? 9 A Yes. 10 Q Is that of a lesser frequency than other 11 inspection frequencies for other interests? 12 A Well, I indicated that some of the requirements 13 are on a quarterly basis. You know, the operations 14 aspects in terms of plant operations is a quarterly 15 frequency so, yes, there are other things that are 16 more frequent than annual. 17 When a construction permit application 0 18 arrives, what role does this office play with respect 19 to reviewing that application compared to the role 20 that NRC Washington would supply in reviewing that 21 same application? 22 Our only involvement when an application is A 23 received is to examine the licensee's quality assurance 24 program. We do participate in what is called the 25 acceptance review which NRR Licensing conducts when

1	Grier	14
2	an application is received. We will conduct in	nspec-
3	tions of the licensee's quality assurance progr	ram;
4	implementation, particularly in the area of des	sign
5	and procurement, form a basis as to whether or	not
6	the program, as described in the application,	is in ,
7	place, so as far as review of the application :	for
8	construction permit, that is really the extent	of our
9	involvement.	
10	Q I am not clear on precisely what is	5
11	involved with the quality assurance program.	Can you
12	give me some more information on that.	
13	A As a part of an application submitted for	r
14	license, the applicant must describe a quality	assur-
15	ance program which meets criteria established	by NRR.
16	These criteria are contained in an appendix of	10CFR
17	Part 50. With the application submitted, ther	e is a
18	Safety Analysis Report, SAR; in connection wit	h the
19	construction permit it is called a Preliminary	Safety
20	Analysis Report or PSAR. Chapter 17 of the PS	AR
21	describes the licensee's quality assurance pro	gram.
22	Similarly for operating license in the	Final
23	Safety Analysis Report or FSAR there is also a	
24	Chapter 17 which describes the quality assuran	ce
25	program. For the PSAR it is the quality assur	ance

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Grier 15 1 program for construction, and for the FSAR it is the 2 quality assurance program for operation. 3 The program description then is evaluated by 4 Licensing to determine whether or not the program 5 described meets the criteria established by NRC. It 6 is then our responsibility in Inspection and Enforcement 7 to conduct the inspections necessary to assure that 8 the program, as described and approved by Licensing, 9 actually being implemented. Now, this means that 10 the licensee has in place organization and procedures 11 12 to carry out the quality assurance program, as 13 described. Q What role, if any, does this Region I play 14 15 when the question of the proposed siting of a nuclear 16 reactor comes up? 17 A We play no role in that regard. We may receive questions from NRR if we have some familiarity with 13 19 the site, but unless requested we have no responsi-20 bility in that regard. 21 Q With respect to a site's emergency response plan, which I understand would be submitted in some 22 23 sketchy form at the PSAR stage --24 A Yes. 25 o -- and in some more detailed form later on

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1	Grier	16
2	at the operating license stage, what role	would this
3	region play in reviewing and in determinin	g the
4	adequacy of that emergency response plan f	or a
5	facility within your region?	
6	A At the construction permit stage, we	would play
7	no role. With the more detailed emergency	plan
8	submitted with the application for an oper	ating
9	license we would generally review that and	provide -
10	any comments that we might have to Licensi	ng, but
11	again it would largely be on a request bas	is.
12	Q Would the final word or decisi	on as to
13	the adequacy of a utility's emergency plan	reside in
14	NRC, Washington?	
15	A That is correct, it is Licensing's r	esponsibility.
16	However, I think we share a responsibility	if we
17	observe during the course of our inspectio	ons that -
18	there are inadequacies in the plan, we are	obligated
19	to bring these to the attention of Licensi	ng and
20	request resolution.	
21	(Continued on follow:	ing page.)
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2.1	2 Q Do you play any role with respect to the
RZ:1c	3 review or comments on the adequacy of plans other than
~	4 the plans of the utility; for example, plans of com-
(5 munities proximate to facilities, or state plans and
	6 things of that sort?
	7 A Not directly. Now, in the past, we have provided
	8 some people who have participated in the review of
	9 state plans, but that has been done as a support to the
	10 Office of State Programs in the NRC, and not really
	ll as an ISE function, so from the standpoint of this

12 office, yes, but from the standpoint of Inspection and 13 Enforcement, no.

14 Q Are there any persons in the region who 15 are assigned out of the Office of State Programs? 16 There are now. We have a state liaison officer A 17 who is assigned here, who is on my staff, but takes 18 his direction from the Office of State Programs, now 19 that has been in place for something over a year as 20 a trial program. Prior to his assignment here, we 21 provided one of our inspectors or one of our section 22 chiefs, actually, who served as a member of the Federal 23 Regional Advisory Committees, who were involved in 24 reviewing of state emergency plans, so there has been 25 involved, but he is really part of ISE.

		Grier		18
2	Who is tha	t person?		
Phil	Stohr. He	is a section	chief in the	Fuel
ities	and Materia	1 Safety Bran	nch. The sta	te
on of	ficer who is	assigned to	the office i	s Tom
ser.				
Q	I understa	nd that Regio	on I itself h	as an

8 emergency response plan; is that accurate? 9 Yes. A

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Facilities and M

liaison officer

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10 Could you, in general terms, tell me what 0 11 that plan provides for.

12 It provides for notification of appropriate A 13 personnel whenever we receive information of an 14 incident, activation of our Incident Response Center 15 here in the office if the significance of the inci-16 dent requires, and the dispatch of inspectors, as part 17 of an emergency response team to the site of the 13 incident. It provides for establishing communications 19 with headquarters and their incident response team; 20 that is, telephone communications and establishing 21 communications with the incident response team when 22 that team arrives on-site.

23 O Could you characterize for us your views 24 as to the priority which emergency response planning 25 has received in the region historically.

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	1	Grier 19
2.3	2	A I think this region has given considerable priority
	3	to the area. Understand that I have only been here as
	4	regional director for about two years now, but prior
C	5	to my coming, considerable attention was given to
	6	emergency planning within the region. The emergency
	7	response plan that ou referred to for Region I was
	8	largely developed when I got here.
	9	Q At your direction?
	10	A No. It was done before I arrived, and I came
	11	in July of 1977.
	12	Since I have been here, the plan has been
	13	revised considerably to conform to some of the direc-
	14	tion from headquarters. Also, we had made some
	15	effort to provide an emergency response center or
	16	incident response center by having trophones installed,
	17	dedicated lines that were in our conference room, to
	18	act as our response center.
	19	Q Prior to coming to this region, did you
	20	have experience with other regions in NRC?
,	21	A Not immediately. I was on the headquarters staff
C	22	for four years; prior to that, I had been in Region II.
	23	Q Do all regions have an emergency response
	24	center or communications point that would activate if
	25	an emergency arose?

	1	Grier 20
2.4	2	A I don't believe all of them do, or did not. They
	3	may have now. My impression is that this region was
	4	more advanced in that regard than other regions. I
C	5	should point out that the director who was here went
	6	to Atlanta, and I know he now has a fully-equipped
	7	Incident Response Center in Region II.
	8	Q Who is that?
	9	A Mr. O'Reilly, Jim O'Reilly.
	10	Q Do the other regions also have emergency
	11	response plans that are set out ahead of time in writing?
	12	A I believe they do. I am not familiar with them
	13	specifically, but I think all regions have some I
	14	am sure all regions have some emergency response plan.
	15	Q Is there a mandatory directive from
	16	headquarters requiring the preparation and maintenance
	17	of a plan of this sort?
	18	A Yes, I think there is. I am not yes, there
	19	is a manual chapter which I am trying to recall in the
	20	I&E Manual which lays down criteria for incident
	21	response.
C	22	Q Yesterday we learned that this region has
	23	a duty officer.
	24	A Yes.
	25	Q What is the function of a duty officer?
		BENJAMIN REFORTING SERVICE

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Grier 1 A Principally, it is a point of contact during 2 off-hours to ensure that there is available on a 24-3 hour basis some individual from the regional office 4 that can receive notifications. He has instruction 5 procedures with respect to contacting other individuals 6 in the office who might be needed in the event of a 7 8 response to an incident. 9 Is it the responsibility of a designated 0 duty officer to remain at a certain location where he 10 11 can be contacted during his specified time?

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12 Prior to the Three Mile Island incident, we had A a telephone answering service who took care of calls 13 that came in during off-duty hours, and they had 14 15 procedures for notifying the duty officer. He was 16 either to remain at his home telephone, keep the 17 answering service informed of where he might be 18 reached, or he carries a pager by which he can be 19 beeped if he was unavailable at a telephone. His 20 instructions were to call the answering service to 21 receive the message.

22 As a result of the Three Mile Island incident, 23 we have changed those procedures to now provide 24 assurance that the duty officer is available 24 hours. 25 For a while, we maintained a 24-hour duty officer

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in the office. Recently within the last couple of 2 weeks, we have changed that procedure so that only 3 4 headquarters, our operations center, I&E, maintains the 24-hour duty officer, and he has instructions on 5 6 how to reach the regional duty officer, so in other 7 words, we have done away with our telephone answering 8 service, and we now have either someone in the office 9 during the day, and the duty officer does not leave 10 home until he is sure that someone is in the office, 11 or the person in the office does not leave the office 12 until we are sure that the duty officer is at home. 13 Do you recall who the duty officer was on 0 14 the morning that the accident began at Three Mile 15 Island on March 28, 1979? 16 Jim Devlin. A 17 0 How was he contacted, to your recollection? 18 It went something like this, as I recall: The A 19 initial notification from Three Mile Island came to 20 the answering service shortly after seven o'clock in 21 the morning. The answering service followed their 22 procedure and called the duty officer's home, and did 23 not receive any answer, and then tried to page him, 24 again did not receive any call-in. The answering 25 service had a priority list to go down if they could

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23 not reach the duty officer. The next priority was 2 the deputy director of the office. I am not sure of 3 the sequence, but he called there and determined that 4 he had already left and was en route to the office, 5 tried the duty officer again and, I think, got the 6 duty officer's wife, who said he was en route to the 7 office, and attempted to page both of them. The duty 8 officer, I understand, did receive the page, but he 9 by that time was within a mile or so of the office, 10 and it was quickest for him to just come on into the 11 12 office, so we were vulnerable during the period when 13 people were in transit to the office, that is true, 14 so we have attempted to correct that by assuring that 15 someone is in the office until the duty officer is at 16 home. 17 Do you also have an emergency planning 0 18 officer or response designee?

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19 Yes, we do; that responsibility is with the A 20 same section that has responsibility for inspecting licensees' emergency plans, and the section chief there 21 has been Phil Stohr, the same individual I mentioned 22 earlier; someone within his section would currently 23 24 have not only responsibility for inspecting licensees' 25 emergency plans, but for doing planning for the

	1	Grier 24
2.8	2	regional office on development of our incident response
	3	plan.
	4	Q This person within Mr. Stohr's section,
(5	what would his proper title be?
	6	A Emergency planning officer.
	7	Q What would his exact responsibilities be
	8	in that position?
	9	A He develor the incident response plan for
	10	Region I, and assures the availability of communications
	11	equipment, and whatever other equipment that we need.
	12	Q Who was the emergency planning officer?
	13	A That is Dale Donaldson at present.
	14	Q Was he also emergency planning officer at
	15	the time of the accident at Three Mile Island?
	16	A Yes, he was.
	17	Q At the beginning of an emergency, what role
	18	will this region play, as compared to the role that
	19	NRC headquarters will play? How will the response of
	20	the two units, as it were, relate to each other during
,	21	the early response?
C	22	A The response plan developed by headquarters,
	23	which was only issued shortly before Three Mile
	24	Island, I believe sometime in February, provides that
	25	ISE, and particularly the regional officers, are
		BENJAMIN REPORTING SERVICE

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2 responsible for the initial response to an incident. 3 Once the executive management team is in place within 4 the headquarters Incident Response Center, they assume 5 responsibility for directing NRC's response to the 6 incident.

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7 I should point out that we had not had any 8 exercises of this arrangement prior to Three Mile 9 Island, at least from this region. I believe there 10 had been one exercise and maybe more between Region II 11 and headquarters, but this region had not been, so it 12 was really a new experience for us, but I view the 13 initial response to be one of dispatching a team 14 establishing communications, and at least at that 15 time -- and initially we were the relay point between 16 inspectors in the initial response team who were on-17 site and the headquarters Incident Response Center.

18 Now, subsequent to the first couple of hours 19 when communications were established directly between 20 the site and headquarters, a three-way communication, 21 and more recently since the event, we have established 22 special communications lines, dedicated lines, between 23 all of the operating facilities and the headquarters 24 Incident Response Center and the regional office. 25

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Q What do you mean by "dedicated lines"?

	1	Grier 26
2.10	2	A It is a direct line; it rings automatically. If
	3	someone in the control room at an operating facility
	4	picks up the phone, it will ring in the operations
(5	center and headquarters automatically. It does not
	6	ring here. The operations center at headquarters has
	7	to put the region on the circuit, but it can be a
	8	three-way conversation on that line.
	9	Q You indicated some exercises between
	10	Region II and headquarters.
	11	A Yes.
	12	Q What would one of those exercises involve?
	13	A Doing a drill, a communications drill, to man
	14	the operations center at headquarters or the incident
	15	response center at headquarters and the incident
	16	response center in the regions, and establish
	17	communications, and in its full extent, it would involve _
	18	dispatch of a team to the site and establish com-
	19	munications that way. I am not sure of the extent
	20	of the drill. You could simulate someone on-site
	21	without actually putthing him there, but it would be
C	22	principally a communications exercise.
	23	Q If an exercise were undertaken, would it
	24	be unannounced?
	25	A Well, it could be. I am not aware that any
		Device Reporting Reputer

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27 Grier 1 exercises have been undertaken unannounced to that 2 extent. 3 Q Is it your understanding that in the 4 response to an emergency that Region I would take 5 the initial response, and then after headquarters was 6 notified and got up to speed, then headquarters would 7 begin to take the predominant role? 8 9 A Yes, that is my understanding, and I believe that is what the plan specifically says, that once the 10 11 executive management team is in place, headquarters 12 will direct NRC's response. 13 Q Do you review that as an appropriate 14 response procedure? 15 A I think, in view of the Three Mile Island 16 experience, there has to be direction of the response 17 from the site, and I think we have learned that at 13 least for an incident of this magnitude, you cannot 19 direct the response completely from Bethesda. You 20 can't direct it from King of Prussia. It has to be 21 done on-site. 22 Q Have you made recommendations to that 23 effect? 24 A Not, I guess, specifically, no; not formal

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recommendations. I think in some discussions I have

Grier 28 1 2 suggested that. Let us focus on the role you actually 3 0 played personally with respect to the accident. 4 When did you first hear of it? 5 I was informed at about 7:45, the morning of 6 A 7 March 28th. I talked about the difficulty that was experienced in notifying Region I, and to go further 8 9 with that, the practice here is that when the receptionist who handles our telephone calls arrives in 10 11 the office, she informs the answering service and 12 obtains any messages that the answering service might 13 have for the office, so when that was done, the 14 calls that had come in earlier from Three Mile Island, 15 the messages were received, and they were passed on 16 by the telephone operator here to the appropriate 17 branch chiefs, Mr. Eldon Brunner in Reactor Operations, 18 and Mr. George Smith in Fuel Facilities and Materials 19 Safety, so Mr. Eldon Brunner came into my office at about 7:45, having received the notification from the 20 21 operator, the messages from Three Mile Island, that 22 they had declared their emergencies, initially the

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Eldon Brunner and George Smith were involved in

site emergency and then later the general emergency,

so I had that information, then, at about 7:45.

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establishing communications with the site at that 2 time, and I attempted to notify headquarters. After 3 some difficulty in reaching the duty officer there, 4 I finally received a call from John Davis, who was 5 acting director, ISE, and informed him of the 6 7 information we had of an emergency at Three Mile Island, told him we were manning our Incident Response 8 9 Center. Why did you have difficulty contacting the 10 0 duty officer at headquarters? 11 My initial call -- I have some difficulty in 12 A 13 remembering exactly, but I got the NRC operator at 14 the time, and whether I called her or whether I called 15 the duty officer and got her, I do not recall, but in any event, she indicated she would attempt to find 16 17 the ISE duty officer.

18 Now, their situation was similar to ours at 19 the time, in which the duty officer went home at night and was available to be called. The initial callback 20 that I got was not from the duty officer but fomr some-21 body else that had been there, Nancy Ervin, on the 22 headquarters staff. The duty officer -- let me explain. 23 As I understand it, the duty officer at the time was 24 Lauren Bush, who was in the Safeguards "lvision at 25

2 headquarters. The NRC operator, being unable to reach 3 him, or at least trying to reach him in the office, 4 had gotten Nancy Ervin. She called me because she 5 thought that we had a Safeguards incident. I informed 6 her that we were trying to reach the duty officer 7 because of an incident at Three Mile Island. Subse-8 quently, the message got to John Davis, who called me 9 back; that transpired between 7:45 and 3:00, when I 10 talked to Mr. Davis, so he was informed of the event 11 and the fact that we were manning our Incident Response 12 Center here.

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13 Q What kind of information did you have 14 available at that point with respect to Three Mile 15 Island?

16 A At that particular point, I think it was very 17 limited. We were aware that they had an initial 18 information that they had a feedwater transient that 19 resulted in reactor scram, and at that point, there 20 were no reported releases. I think that is about the 21 extent of our information.

22 Well, subsequently, then, we manned the Incident 23 Response Center, established communications with the 24 site, with Unit 2 control room. The first calls to 25 the site had been made from George Smith's office, and

BENJAMIN REPORTING SERVICE

Grier after we had manned the Incident Response Center, we then established communications from that point,

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so from that point on, essentially we had the 4 5 Incident Response Center manned, and we had communications with the site. 6

7 We were then involved in getting a team together to despatch to the site. The first car with 8 five individuals left here about 8:45, I believe, or 9 about an hour later, and a second car left a little 10 bit later with two individuals. 11

12 Q Did you hold any meetings that morning to 13 coordinate the Region I response?

14 A Not as such; only I went to our Incident 15 Response Center and remained there essentially all 16 that time and assured that the center was manned.

17 One of the first things I recall was the question -13 of availability of our mobile laboratory, which at 19 that time was on a routine inspection in Connecticut 20 at Millstone, and a decision was made to contact the 21 mobile laboratory and direct them to return to the 22 office here to be dispatched to the Three Mile Island 23 site.

24 Q Did you make that decision? 25 A Yes.

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	1	Grier 32
\$3.1	2	Q What is the function and capacity of the
ew	3	mobile laboratory?
	4	A Well, it is used regularly. It contains
(5	analytical equipment and is used regularly in our
	6	inspection program in two functions: One, to verify
	7	the licensee's analytical capability, that is, by
	8	obtaining samples, maybe, in-plant samples of effluents
	9	from the plant and splitting that sample with the
	10	licensee and conducting our own independent analysis
	11	to see if we reach agreement; it is also used in
	12	independently collecting environmental samples and
	13	analyzing that, so it has capability for doing those
	14	types of analyses.
	15	As far as details on the equipment, I think
	16	that is better answered by Mr. Smith, you will talk
	17	to him this afternoon.
	18	Q What time did you issue the order for the
	19	mobile laboratory to return to this office?
	20	A Sometime after 8:00 o'clock; I don't recall now
C	21	exactly what time contact was made with the laboratory.
(22	As I indicated they were in Connecticut. They returned
	23	to the office and got here, perhaps, at 4:00 o'clock
	24	or so in the afternoon. By that time we had some
	25	better idea of the situation at Three Mile Island,

1 Grier 33 2 so they picked up the equipment and supplies from the 3.2 3 office here and then proceeded to the Three Mile 4 Island site, arrived there about 7:00 p.m. in the 5 evening. 6 Why did you decide to have them come here 0 7 rather than go directly to Three Mile Island that 8 morning? 9 A This is not really out of the way from 10 Connecticut, plus the fact that they needed to pick 21 up the additional equipment, instrumentation, and 12 supplies from the laboratory. 13 Q Was it also because you did not have a 14 full understanding of the severity of the accident? 15 A That is true at 8:00 o'clock, but we really 16 decided that since this is not really out of the way, 17 and since, if they were going to be needed at the 18 site, they needed additional supplies which they had 19 to pick up here. 20 Q After you were assured that the communi-21 cations center was activated and the teams were off 22 from here that morning to Three Mile Island, what did 23 vou do? 24 A Well, I continued to remain in the Incident 25 Response Center here, being aware of the information BENJAMIN REPORTING SERVICE

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2 that we were receiving from the site, and assuring 3 that that was being passed onto headquarters. There 4 was consideration of the need for additional people 5 to be sent to the site. We had, as I indicated 6 initially, five and then two, so there were seven. 7 The first thing I did, and I guess this was about the 8 middle of the day, direct that another reactor 9 inspector be sent. We had sent two reactor inspectors 10 with the first group of seven, so we dispatched a 11 third reactor inspector early in the afternoon. 12 Later, I decided that we needed additional supervision 13 at the site, and I directed Mr. Keimig to proceed to 14 the site, so it was principally one of assuring that 15 we were keeping contact with the site and with head-16 quarters, and that we were providing the people necessary at the site to maintain those communications. ~ Is that a fair characterization of the 0 role you played throughout Wednesday? Yes, I think so. A Q Which persons, to the best of your recollection, were you in contact with on Wednesday concerning the accident? A Here in the office, you mean?

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BENJAMIN REPORTING SERVICE

	1	Grier 35
. 4	2	A Well, of course, Eldon Brunner, who is the
	3	Reactor Operations Branch chief, and George Smith,
	4	Fuel Facilities and Material Safety Branch chief, my
(·	5	deputy, Jim Allen, the inspectors who were manning
	6	the phones in the center, the Public Affairs officer,
	7	Mr. Abraham from time to time, and another thing that
	8	was done, sometime during the day, when we became
	9	overwhelmed with telephone calls from the public, was
	10	to assign some individual to provide assistance to
	11	Mr. Abraham, in responding to telephone calls; at
	12	least three of the section chiefs who were not directly
	13	involved in the incident were assigned to provide that
	14	assistance.
	15	There was also dealing with Tom Elsasser and
	16	the Stite liaison officer in terms of his contact
	17	with State representatives, and he was receiving calls
	13	from congressmen in that regard.
	19	Q With which persons outside of Region I
	20	were you in contact that morning?
(21	A Well, from time to time with John Davis at
	22	headquarters or Norman Moseley. There were other
	23	contacts with individuals involved at headquarters;
	24	Barnie Weiss, I remember particularly, who was involved
	25	in emergency planning at headquarters. I guess I can't

	1	Grier 36
3.5	2	remember the others specifically.
	3	Q Who is Mr. Moseley?
	4	A Director, Division of Reactor Operations
(5	Inspection.
	6	Q Is he at headquarters?
	7	A Yes, ISE staff at headquarters.
	8	Q Were these gentlemen giving you any infor-
	9	mation that you did not previously have which respect
	10	to the site?
	11	A No, I don't think they were. I don't recall any
	12	particular information of that nature.
	13	I guess I have to say that I thought that
	14	communications was somewhat limited in that I let
	15	me back up a minute, to say that as I indicated
	16	initially we were to serve as relay point between
	17	communications at the site and headquarters because we
	18	had the telephone lines to headquarters. About the
	19	middle of the day, late morning, 11:00-12:00, or so,
	20	there was the request from headquarters, or really
C	21	the direction from headquarters that the telephones
C	22	be changed, that the circuits be established so that
	23	communications were directly between headquarters and
	24	the people at the site, so when that was done we
	25	really were, to a great extent, out of the relay of

1 Grier 37 2 information, at least insofar as the information from 3 Unit 2 control room went. 4 Now, we had two channels of communication with 5 the site, with Unit 2 control room and with Unit 1 6 control room where the licensee had established his 7 emergency operations center, so we used the informa-8 tion, the communication channel from Unit 2 control 9 room to pass operational information, and the commu-10 nications with Unit 1 control room to pass radiation 11 and environmental information. We were continuing to 12 relay radiological and environmental information, but 13 direct headquarters communication was established 14 about the middle of the day with Unit 2 control room, 15 so in effect we were out of the relay at that time. 16 0 Did you have direct communications with 17 the observation center at the site? 18 A No, we did not. 19 Was that established at any point? 0 20 A That was not established at any time. 21 Q During Wednesday then, is it fair to 22 characterize your role as relaying information to 23 and from headquarters, and as generally coordinating 24 the Region I response to the accident? 25 Yes, that is correct. A

1 Grier 38 2 Q Are there any specifics as to the events of that day that come to your mind that would be 3 4 worthy of mention? 5 A Not anything particularly, I guess, that comes to mind. 6 7 Q Did you learn Wednesday of the possibility that there was an explosion within the reactor? 8 9 A No, I did not; that did not come to my attention 10 on Wednesday. 11 Q When did you leave Region I on Wednesday? 12 A Sometime Wednesday evening; I don't remember 13 exactly. When it became apparent by afternoon that 14 we were going to have to continue to man the response 15 center through the evening, I directed my deputy, 16 Jim Allen, to go home so that he could come back and 17 relieve me, and so I was here until he returned which 18 I am sure was sometime after 8:00 o'clock. I don't 19 remember exactly what time I went home, but it was 20 late Wednesday evening, and I left Mr. Allen in charge. 21 Q During Wednesday, did you maintain or 22 establish contact with persons from the Commonwealth 23 of Pennsylvania? 24 A Well, I did not directly have any communications 25 with Pennsylvania. Now, we had an individual in the

39 Grier 1 office who was in contact with them. It was Bob 2 Bores who was fulfilling that function. 3 Again, going back to our usual procedure, this Environmental Special Project Section under Mr. Stohr 5 has responsibility for State liaison. Dr. Bores is a 6 member of that section, and so he carried out those 7 responsibilities. 8 Was he the contact point for Pennsylvania 9 0 10 personnel during the entire course of the accident? Not personally. He was here during the day at 11 A least initially. There was someone fulfilling that 12 function continuously, I believe, but it was not 13 14 Dr. Bores all the time. I can't answer right now who 15 else was involved, but there was someone generally 16 responsible for that area. 17 To the best of your recollection, did 0 13 Dr. Bores remain here in the region during the entire 19 course of the accident? 20 A No, he was -- he went to the site sometime later; 21 I am not sure now exactly when he want to the site. 22 Of course, it was on Friday when we moved a number of people to the site, additional people, when I went to 23 24 the site -- George Smith and I went to the site on 25 Friday afternoon, and sometime later I think Dr. Bores

1 Grier 40 2 came to the site, but I don't remember what time, so 3 he was deployed to the site also. I can't say 4 exact', when. 5 Q When you left here at the end of Wednesday, 6 did that finish your entire involvement with the 7 accident on Wednesday? 8 A Yes, it did. 9 Q When did you next become involved with the 10.00 10 accident? 11 A When I returned to the office Thursday morning. 12 Q Did you return at 8:00 that morning? 13 Well, earlier than 8:00, probably 7:00. A 14 Q What was the situation here when you 15 arrived? 16 A The center was still manned, of course. Mr. Allen 17 was here in charge, and things were pretty much as I 18 had left them on Wednesday morning. 19 Q Was there any new understanding with 20 respect to the state of the reactor at that point? 21 A I don't remember particularly. 22 If I can back up a minute to Wednesday evening, 23 one of the points that had some significance attached 24 to it is the restart of the primary coolant pump 25 which I believe occurred about 9:00 o'clock on

1	Grier 41	
2	Wednesday evening, and I was still here when that	
3	happened, so once that had been accomplished there	
4	was very little change between the status of the	
5	reactor from the time I left on Wednesday afternoon	
6	Wednesday evening until I returned on Thursday	
7	morning.	
8	Q Could you characterize for us what you	
9	did on Thursday morning, what the role you played	
10	was at that time?	
11	A Well, I resumed the same role that I had before,	
12	directing the operations here in the Incident Response	
13	Center. I did have a meeting of my branch chiefs the	
14	first thing Thursday morning to review where we were.	
15	As I recall, the things we discussed were that the	
16	objectives of response to the events should be along	
17	these lines: One, bringing the reactor to cold shut-	
18	down; two, identify the sources of release of radio-	
19	active materials and get them stopped; a third, I	
20	guess, was to determine what was being released or	
21	what had been released; and fourth, establish the	
22	sequence of events in the accident. Those were the	
23	order of priority that I placed on things that I had	
24	thought had to be done.	
25	Q When did you first become aware of the	

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1	Grier 42
2	possible intentions of the utility to dump some
3	industrial waste water into the Susquehanna River?
4	A The first thing that I recall in that regard
5	was sometime Thursday evening when there were some
6	questions from headquarters on that matter, and subse-
7	quently, I believe about 6:00 p.m., or so, I recall
8	that I received a call from the Incident Response
9	Center at headquarters with instructions that I should
10	call the plant superintendent at the site and direct
11	him to stop dumping industrial waste water into the
12	river.
13	Q Someone gave you directions to this effect?
14	A Yes.
15	Q Whe was that?
16	A I came from the executive management team; who
17	specifically made the telephone call, I am not sure -
18	I recall, but I was informed that the order came from
19	Mr. Gossick, who was in the center at the time.
20	Q Do you remember what time Thursday evening
21	this was?
22	A My recollection is about 6:00 p.m., but I don't
23	remember it precisely. It was sometime late Thursday
24	afternoon or early evening.
25	Q This call was from someone at NRC

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1	Grier 43
2	headquarters?
3	A Yes.
4	Q The call came in and instructed that you
5	should notify the site, and indicate that they should
6	not dump this waste water?
7	A That is correct.
8	Q At this point, was there a dump ongoing,
9	and the effect of your order would have been to stop
10	the activity?
11	A That is my understanding of the situation.
12	Q Did you follow through on those instruc-
13	tions?
14	A Yes. I contacted the inspector, one of the
15	inspectors at the site, I believe, Dr. Gallina, who
16	in Unit 1 control room, and asked him to locate the
17	plant superintendent so that I could talk to him, and
18	that was done. I relayed to him, in effect, the order
19	that he should stop releasing from the industrial
20	waste tank to the river.
21	Q Who was the plant superintendent with whom
22	you spoke?
23	A Gary Miller.
24	Q Mr. Miller?
25	A Yes.

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1 Grier 44 Q Was it your understanding that the waste 2 water that they were at that time releasing was 3 radioactive? 5 A There was some radioactivity in the water. It had been analyzed, but the level of radioactivity was 6 7 such that it met NRC requirements for release to the 8 river. 9 Q How did you know that? 10 A From the results of the analysis that were made. 11 Q Where was the analysis made? 12 A I believe, our mobile laboratory had analyzed 13 the samples for the licensee. 14 Q Did you also hear of the results of that 15 analysis by your mobile laboratory at the time or by 16 the time the call from headquarters came in? 17 A I was aware of the analytical results. I don't 18 believe I knew at the time that the analysis had been 19 done by our laboratory, but I subsequently learned 20 that. I believe, Mr. Smith here was aware at the 21 time that we had done the analysis, and that there was 22 no problem in terms of meeting NRC requirements. 23 Q Just to backtrack for a moment, you are 24 indicating that the first you learned of the entire 25 waste water dumping issue was the call from

1	Grier 45
2	headquarters at NRC, is that correct?
3	A Yes, that is my recollection.
4	Q When you called the site to relay the
5	order, at that point you were aware that the analysis
6	of this waste water indicated that it was within NRC
7	limits?
8	A That is correct.
9	Q Do you recall precisely where or how you
10	became aware of the analysis?
11	A No. I know there was discussion with Mr. Miller
12	when I talked to him on the phone about the analytical
13	results, and the fact that he had made the determina-
14	tion that they met any NRC limits for dumping; whether
15	that was the first awareness that I had of the
16	analytical results or not, I don't recall.
17	Q Have you prepared any memoranda or other
18	notes with respect to the relay of this order or other
19	events involving the waste water dump?
20	A This is recorded in our Incident Response Center
21	log. I can provide you with copies of the sheets, I
22	think, on which that information is logged.
23	Q It is quite possible that Mr. Sherman has
24	already come across those documents.
25	Are there any other notes or documents

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1	Grier	46
2	that make an account of these events?	
3	A Not that I am aware of, no.	
4	Q How was your order received by Mr. Mil	ler
5	at the plant?	
6	A He agreed to stop dumping or releasing somew	hat
7	reluctantly because of the situation that would	
8	develop if he did not continue to release it becau	se
9	the tanks were full, and if the water were permitte	ed
10	to overflow into the building it would eventually	
11	reach the river anyway through a storm drain, I	
12	believe, to a point of low flow in the river, and :	it
13	was his view that it was preferable to release three	ugh
14	the designed release point of high river flow, and	
15	since it met any NRC limits as far as radioactivity	,
16	goes, he fait to continue the release was the parfe	er-
17	able course of action; nevertheless, because of the	3
18	order, he agreed to stop release.	
19	Q What was your reaction to his thoughts	in
20	that regard?	
21	A I was inclined to agree with hi.". I passed	
22	that information onto headquarters.	
23	Q To whom did you pass that information o	on?`
24	A I specifically don't recall who was on the	
25	telephone at the time, but the information was rela	iyed

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1	Grier 47
2	to headquarters.
3	Q Did you personally relay that information?
4	A Yes.
5	Q Did you relay that information immediately
6	upon the completion of your conversation with
7	Mr. Miller?
8	A Yes. I may have talked to Mr. Moseley, but I am
9	not sure. In any event, I personally relayed the
10	information to headquarters, yes.
11	Q When you originally received the call from
12	headquarters directing you to pass the order along,
13	did you question the order at that time, or enter into
14	a discussion as to the wisdom of the order at that
15	time?
16	A I don't believe I did. There was some discussion
17	here about what it would mean if the releasing were
13	stopped, but I don't think it was any discussion with
19	headquarters, but it really came after my discussion
20	with Gary Miller.
21	Q Did you establish contact with any repre-
22	sentatives of either the counties surrounding Three
23	Mile Island or of the State with respect to this
24	matter?
25	A No, I did not.

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Grier 2 Did you contact Mr. Abraham or any other 0 persons in the media with respect to your decision or 3 with respect to your activities? 4 5 Not on this issue, no. A Q Are there any other events of Thursday 6 afternoon which occurred which are worthy of mention? 7 The other thing that I recall on Thursday, and 8 A I am not sure of the precise time, but sometime then 9 10 we became aware of the radioactivity levels in the primary coolant sample which had been taken, and the 11 indication that that provided of the high levels of 12 radioactivity, and hence apparent significant fuel 13 14 damage; that is the one event of Thursday that I 15 recall. 16 The other activity of Thursday concerning our 17 involvement here, to some extent there were a number 13 of congressmen, representatives, who were sent to the 19 site on Thursday, and we were involved in responding to requests from headquarters to try to make some 20 21 arrangements to accommodate their visits which caused 22 me some difficulty in terms of providing people. We were asked to initially provide someone to meet them 23 24 at the airport and drive them to the site, and that 25 was an activity that I was not prepared to take care of.

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BENJAMIN REPORTING SERVICE

2 We don't have those sorts of resources here, so the 3 was an involvement on Thursday, as I recall. 4 Q Was that an interruption, or was it mor 5 of a hassle? 6 A Well, it was an interruption, I think.	
3 was an involvement on Thursday, as I recall. 4 Q Was that an interruption, or was it more 5 of a hassle?	
4 Q Was that an interruption, or was it mor 5 of a hassle?	e
5 of a hassle?	4
6 A Well, it was an interest	
it was an interruption. I think	
7 Q Do you think that occurrence limited in	
8 effectiveness of the response of Region I?	
9 A I think it detracted to some extent. Well,	
10 Mr. Keimig, for instance, who had been dispatched to	
11 the site on Wednesday was involved on Thursday in th	
12 briefings of congressmen, and that really detracted	19
13 from his principal responsibilities at the site. I	
14 did send a State liaison officer over on Thursday, a	
15 he was present for some of the briefing of congressm	
16 so it was a detraction, I think, yer.	en,
17 (Continued on following page.)	
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T-3a	1	Grier 50
RZ/mf-	1 2	Q Getting back to the waste water question
	3	again, when you called headquarters back and in-
	4	dicated that you had some sympathy with the posi-
	5	tion of the utility on this matter, what kind of
	6	response did you get?
	7	A I don't recall any specific response except
	8	that they accepted the information.
	9	Q Was there any indication that they
	10	might reconsider the order at that point?
	11	A Not that I recall. The order was still in
	12	effect when I left Thursday evening. Some time
	13	later, perhaps midnight, I believe, or so, the
	14	order was lifted, but it was in effect for several
	15	hours
	16	Q Did these events that you have just
	17	recounted terminate you: involvement with the waste
	18	water dump issue? Did you have any other personal
	19	involvement with it other than what you stated?
	20	A That is the extent of it.
	21	Q When did you leave here on Thursday?
	22	A Again, it was some time late in the evening;
	23	I don't recall precisely, but I would guess, 8:00
	24	or 9:00 o'clock.
	25	Q When did you come back?

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1	Grier 51
2	A Again, 7:00 to 8:00 Friday morning.
3	Q Did you have any involvement over the
4	course of the evening while you were away from
5	here with the accident?
6	A No, I did not.
7	Q What was the state of affairs when you
8	arrived on Friday morning?
9	A I think initially it was pretty much as it
10	had been on Thursday. Activity picked up during
11	the course of the morning when the question of
12	evacuation was raised,
13	Q How did that issue first come into this
14	office?
15	A My recollection is that we first received it
16	from the site from people who were asking the
17	question, "Has NRC_recommended evacuation?"
18	Some of the inspectors at the site had heard reports
19	on the radio there, and they contacted us to find
20	out what was going on, and we had received no in-
21	formation at that time here that evacuation was
22	recommended or even being considered.
23	Q What time was that?
24	A I am not sure of the time now. I would guess
25	some time between 3:00 and 10:00 in the morning.

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Grier Do you recall wbo called from the site? 0 A Dr. Gallina may have called. It also may have come from Phil Stohr. We had established telephone communications with the mobile laboratory; a 6 telephone had been put into the mobile laboratory at the site, which was located adjacent to the ob-8 servation center, by the way, and I have some recollection that they had a radio in the mobile laboratory, and it may be that they had gotten the initial radio reports over there and called here, but I am not real clear on that point. Q What information was given to you other than the question, "Did NKC order an evacuation?" Was there anything else? No, that is the way it was put. As I recall, A I contacted headquarters and I think it was Norm Moseley again, to ask him if NRC had recommended evacuation. Q What response did you get? Well, he didn't know, as I recall, at that A vime. Now, the next thing that I recall in

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21 that regard was that Dr. Bores, who again was in 25 communication with the State, came up to the Operations

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I 53 Grier 2 Center and said that Tom Gerusky, being with the 3 State of Pennsylvania Bureau of Radiological Health, 4 so I went to the office outside the center and 5 took his call, and he had the same question, "Is 6 NRC recommending evacuation?" 7 I told him, I had no knowledge at that 8 time about that, that we had, but I would attempt 9 to find out from Headquarters if that had been done. 10 Q Did your conversation with Mr. Gerusky 11 cover any other subject? 12 A No, that was the only subject, so I again called 13 Mr. Moseley in an effort to find out, and as I recall 14 the only thing I learned was that there was discus-15 sion of evacuation, but that it was not clear to him 16 at that point; he couldn't find out whether or not 17 such a recommendation had been made. 18 Where was Mr. Moseley located when you 0 19 called him? 20 In the Headquarters' Incident Response Center. A 21 Did you make any other efforts to 0 22 determine whether an evacuation order had been 23 issued? 24 No, I think that was my only effort. A 25 After these conversations, what happened

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3 I don't remember exactly how long it was, but A 4 eventually I learned that the chairman of the NRC 5 had made such a recommendation initially, and then 5 I believe, or at least my understanding is, that it 7 was revised, and the recommendation was that school 8 children and pregnant women be evacuated. At that 9 point, I recontacted Tom Gerusky to tell him what 10 I had learned, and in the meantime he had gotten the 11 information directly. 12 0 Do you remember what the initial evacuation 13 order or recommendation was from the NRC? 14 A Not precisely, no. It is my impression now, 15 and I don't remember whether I knew it at the time, 16 but my impression now is the recommendation to evacu-17 ate from within five miles of the plant. 18 Q How much time elapsed, roughly, as you 19 can recall, between your first notification that 93 the NRC might have ordered evacuation and your first 21 hearing finally that Mr. Mendrie had recommended 22 an evacuation of pregnant women and school children? 23 A My impression is that it was something like 24 30 minutes to an hour, but I am not exactly sure; 25 some of our logs at that time may give some indication

BENJAMIN REPORTING SERVICE

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1	Grier
2	of the times involved.
3	Q What was your personal reaction to the
4	information that the NRC might be ordering an
5	evacuation?
6	A I was somewhat surprised because it did not
7	seem to us from the information we had that the
8	situation had deteriorated, so that I did not really
9	understand the basis for the recommendation.
10	Q Did you consult your State liason
11	officer or your Emergency Planning officer on this
12	matter at that time?
13	A No, I did not.
14	Q Did you have any other involvement with
15	the question of recommendations for evacuation after
16	those discussions?
17	A No, I did not.
18	Q What did you do on Friday afternoon, in
19	general terms?
20	3. Well, about the middle of the day on Friday,
21	I received the information that Harold Denton and
22	others from the NRR were proceeding to the site,
23	and I was directed, as I recall, that either I should
24	go to the site or Jim Allen, the deputy director,
25	should be sent to the site, so it was my decision

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1	Grier
2	that I should go.
3	Q From whom did you receive this information
4	concerning Mr. Denton's traveling to the site?
5	A That was Mr. Dudley Thompson from the I&E
6	Headquarters Staff.
7	Q Is he also the person who directed that
8	either you or Mr. Allen go to the site?
9	A Yes.
10	Q Why did you decide to go yourself?
11	A I felt it was my responsibility to go at that
12	time and direct the ISE effort from the site, and
13	leave Mr. Allen in charge here, so it was a personal
14	decision on my part to go.
15	Q When did you leave for the site?
16	A We requested a helicopter which initially
17	would be here at 3:00 o'clock, as I recall. I think
18	we asked for it somewhat earlier, maybe as early
19	as 2:00 or 2:30; the initial information was that
20	the helicopter would be here at 3:00; it was
21	actually about 3:30 when it landed in the parking
22	lot here.
23	I had also directed George Smith to
24	go with me, so we were picked up here at 3:30, and
25	proceeded directly to the site by helicopter.
	RENJAMIN REPORTING REQUIRE

8	1	Grier 57	
	2	Q When did you arrive?	
	3	A It was about 4:30. The helicopter stopped	
	4	enroute to refuel, so it was about an hour.	1
	5	Q Where did you go when you arrived at	
	6	the site?	
	7	A The helicopter landed at the point adjacent	
	8	to the Observation Center, and I proceeded to the	
	9	mobile laboratory, which at that time was our prin-	
	10	cipal point of contact for I&E on the site. I later	
	11	met with Harold Denton, and he had already arrived.	
	12	He was utilizing a house a residence, which is	
	13	adjacent to the Observation Center, and he had a	
	14	meeting of all NRC people in the living room of	
	15	that house. I am not sure at the time, but I would	
	16	guess it would have been 6:00 o'clock, or something	
	17	like that.	
	18	Q You were present at the meeting?	
	19	A Yes.	
	20	Q What was the purpose of that meeting?	
	21	A Well, it was sort of a general direction on	
	22	the part of Mr. Denton as to what we needed to do	
	23	to get the NRC personnel all involved and the direction	1
	24	as to what we should do.	
	25	Mr. Vollmer and Mr. Stello were there,	

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9	1	Grier	58
	2	and some direction that we should decide how we	
	3	were going to be organized, and how we were goin	g
	4	to handle the response.	
	5	Q What actions did you take while you	
	6	were at the site?	
	7	A Well, I continued to principally direct an	d
	8	coordinate the response or the activities of the	
	9	ISE people who were on-site. We were involved in	
	10	three areas. We had reactor operations inspecto	rs
	11	who were involved in surveillance of licensee ac	ci-
	12	vities in the control room; we had health physic	ists
	13	who were involved in surveillance of activities	in
	14	the Health Physics area in the plant; and we had	
	15	the environmental personnel who were involved in	
	16	coordnating all of the environmental activities	,
	17	so there were three principal activities that we	
	18	were involved in.	
	19	Now, we had, in addition to personne	1
	20	from Region I, by that time we had a number of	
	21	people from other regions who had been dispatche	d
	22	to the site to support our efforts. As I recall	,
	22	by the end of the day on Thursday, from Region I	
	24	we had about 25 people at the site. By the end	of
	25	the day Friday or into Siturday, as the personne	1
		BENJAMIN REPORTING SERVICE	

10	1	Grier
	2	from other regions were arriving, that number had
	3	doubled, so we had something on the order of 50-60
	4	people on-site, I think, and I was involved in
	5	setting up the organization, providing, of course,
	.6	24 hour coverage in all areas, so we had to have
	7	shift organizations and establishing the procedures
	8	for carrying out our responsibilities.
	9	Q Did any other events occur on Fridag
	10	night that you considered to be significant?
	11	A The principal thing, I guess, I was involved
	12	in, was in going with Mr. Denton to the Governor's
	13	office for his initial meeting and briefing with
	14	the Governor, which occurred some time Priday
	15	evening.
	16	Q Did you participate in the briefing of
	17	the Governor?
	18	A I was present. The principal part of the
	19	briefing was handled by Mr. Denton.
	20	Q And you also attended the press con-
	21	farence?
	22	A Yes.
	23	Q When did you leave the site on Friday?
	24	A My recollection is that it was after midnight.
	25	I checked into the motel some time, it seems to me,

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BENJAMIN REPORTING SERVICE

1		Grier 60
	2	after midnight.
	3	Q Did you have any involvement at all
	4	with the accident after leaving the site that night?
	5	A No.
	6	Q Did you get back the the site the
	7	following morning?
	8	A Yes, Saturday morning.
	9	Q Approximately what time?
	10	A 7:00 to 8:00 o'clock, as I recall.
	11	Q Where did you report when you arrived
	12	at the site?
	13	A We had established a trailer for our operations.
	14	Trailers had been set up on Friday evening, and
	15	there were a number of trailers there, and the
	16	trailer which was used for I&E personnel was
	17	adjacent to the one which Mr. Denton and the NRR
	18	people were operating out of, so I had set up
	19	operations in the I&E trailer, and I reported there.
	20	Q During the course of Saturday, did you
	21	maintain the same role that you had played on Friday
	22	after arriving on the site, i.e., the role of
	23	coordinating?
	24	A Yes. That essentially was my role as long
	25	as I was at the site.
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1	Grier 61
2	Q From Saturday on, did you even temporarily
3	step out of that role and assume a different function?
4	A No.
5	Q Were you aware on Saturday of attempts
6	that were ongoing to extend the emergency planning
7	out ten or 20 miles around the area?
8	A I'm not sure now when I became aware of that,
9	whether it was Saturday or Sunday. I attended a
10	meeting in Harrisburg, which I believe was not until
11	Sunday, at which time is the first recollection that
12	I have of any discussion about extending it out to
13	20 miles.
14	Q That is your first recollection of the
15	whole issue being raised?
16	A 20 miles, yes.
17	Q Where was this meeting held?
13 19	A It was held in the office of the Pennsylvania
	Emergency Management Agency, PEMA.
20	Q At what time was it held?
21	A I would guess 5:00 o'clock in the afternoon.
22 23	Q Do you remember who was at the meeting?
	A From NRC, I went, and there was a representa-
24	tive from State Programs who was assigned to the
25	site, Joe Lubenau. There were representatives from

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1	Grier 62
2	DOE, and the principal one that I remember is Joe
3	Deal, who headed up DOE's activities. There were,
4	perhaps, another three or four DOE representatives,
5	including Patterson, and the other names I don't
6	recall. There were State representatives. Gerusky
7	was there from the Bureau of Radiological Health.
8	There were representatives from PEMA. Colonel
9	Henderson was in and out, as I recall. He was not
10	present during the entire meeting, but he was there
11	for part of the meeting. There were probably ten
12	or twelve people there in total.
13	Q Were there any representatives from the
14	Governor's Office or the Lieutenant Governor's
15	Office?
16	A Not that I recall.
17	Q Do you recall if there were any repre-
18	sentatives there from Dauphin County or other oute
19	lying areas?
20	A I couldn't say.
21	Q Does the name Kevin Molloy refrash your
22	recollection?
23	A No, it doesn't.
24	Q Do you remember who called the meeting?
25	A My understanding was DOE had requested it.

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1	Grier	63
2	How that came about, I am not sure, but my une	der-
3	standing was that DOE had responsibility for	any
4	relocation of NRC personnel if we had had to	relocate
5	from our site at the observation center, so the	hat was
6	part of the matter that was discussed; what part	art of
7	the evaluation would be handled by DOE.	
8	Q Was there discussion at the meeting	ng
9	with respect to extensive planning?	
10	A No, not; only to the extent that consid	eration
11	out to 20 miles should be given. There were no	o de-
12	tails of planning discussed, but only the sug	gestion
13	that that needed to be considered.	
14	Q Do you remember who chaired the m	eeting,
15	if anyone?	
16 17	A Well, as I indicated, I think Joe Deal	was
18	principal or, at least one of the principa	1
19	spokesmen for DOE. There was another DOE per	son,
20	whose name I have not been able to recall, wh	0
21	was involved particularly in terms of evacuat	
22	planning. Joe Deal was there on a continuing	basis
23	in terms of DOE's emergency response or radio	
24	response, and he had been there since I don't	
25	when, Wednesday or Thursday, but the other re	
	sentative whose name escapes me, was there pr	incipally

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1	Grier	65
2	meetings or a number of meetings among these p	arties
3	on these questions?	
4	A There were not any other meetings quite	of
5	this nature that I recall.	
6	Subsequently, and I think that was	
7	probably on Monday, there were meetings of all	
8	Federal Agencies involved, representatives fro	m
9	DCPA, I guess, and Mr. Adamcik is the individu	al
10	that I have in mind. I guess he was the senio	r
11	individual involved as far as DCPA goes, and h	ne had
12	regular meetings, I believe, starting on Monda	uy in
13	terms of coordinating all Federal activity.	
14	(Continued on the following page.)	
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	1	Grier 66
RZ 5 1c	2	Q Did the NRC personnel ever have any meetings
	3	just of their own people with respect to emergency
~	4	planning?
6	5	A In terms of this particular you mean, of what
	6	we would do?
	7	Q That is correct.
	8	A No, I don't recall that there was any meeting
	9	on that subject, not that I attended.
	10	Q Did you have any further involvement
	11	beyond what you just stated with respect to contingency
	12	planning?
	13	A There are two things I might mention: One, there
	14	was an effort to develop the contingency plan for NRC,
	15	which was carried out by Dale Donaldson and someone
	16	who was at the site at that time; and secondly, there
	17	was a representative under my direction who attended
	18	these regular meetings that the DCPA had. This was
	19	Mr. Genroy, who is deputy director in Region III, who
	20	was assigned to the site as part of the ISE effort,
1	21	and I assigned him the responsibility of being NRC
C	22	representative to those meetings.
	23	Q Did you have any other involvement with
	24	the whole area of contingency planning in case matters
	25	would deteriorate?

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1	Grier 67
2	A I believe that is the extent of it.
3	Q Were you aware at any time on Saturday or
4	any other time of any possible sabotage threat?
5	A I have some recollection that we received
6	information some way that there was going to be an
7	effort at savotage. I don't recall now precisely
8	how the information came, but at some time, and my
9	impression was that it was in this time frame; I did
10	contact the F.B.I. and informed them of this informa-
11	tion we had.
12	Q Would this have been Saturday evening?
13	A I think so, but I guess I have a little difficulty
14	in placing times on all of these things right now.
15	Q Do you recall whom you contacted at the
16	F.B.I. on this?
17	A I called the Philadelphia office because I had
18	the telephone number for that office and talked to the
19	agent on duty.
20	Q Did you have an impression at that point
21	as to how any sabotage attempt might be carried out
22	or any details?
23	A No.
21	Q What response did you get from the telephone
25	call to the F.B.I.?

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A My recollection is that they would notify, I 2 believe, people in the Harrisburg area of the informa-3 tion that they had; that is the only thing I recall. 4 Q Did you have any involvement with this 5 question of possible sabotage beyond hearing of it 6 7 and calling the F.B.I.? 8 A The other thing that was done was to assure that 9 people at the site were aware; Pennsylvania state 10 police were on-site, and they were made aware of the 11 information we had, and the licensee's security people, 12 as I recall. 13 Q Did you or someone at your direction make 14 the Pennsylvania state police and the licensee's 15 security personnel aware of this? 16 A Yes. There were two individuals in the ISE 17 group from our Physical Security Section that I had 18 been using in a number of different areas. They had 19 been on-site when I arrived on Friday, and actually, 20 they had gone to deliver some equipment to the site, 21 and I directed them to remain on-site, so they had 22 been really involved in administrative functions in 23 terms of setting up the trailer, telephone communica-24 tions, and that sort of thing, but they were also 25 used to some extent in security matters whenever there

BENJAMIN REPORTING SERVICE

69 1 Grier 2 5.4 was something that needed to be attended to, so they 3 were informed, and they, in turn, were directed to 4 inform the state police and the licensee's security 5 personnel. 6 Q Who were these persons? 7 Mike Rogers and Bill Madden. A 8 0 And they are Region I personnel? 9 A Yes. 10 Did you ever hear any word as to the 0 11 response or the reaction of the Pennsylvania state 12 police or the licensee's security to this new 13 information? 14 A No, I don't remember anything. 15 Q Do you remember any concern at that time 16 with respect to the President's visit that had been 17 scheduled for Sunday in relationship to this sabotage? 18 A No, not in relationship to that; I didn't connect 19 that at all. 20 Q Did you have any reason to form an opinion 21 one way or the other as to whether this sabotage threat 22 was a real one or a hoax? 23 My impression at the time was that it was a hoax. A 24 0 Why did you have that impression? 25 I am not sure now, but I don't -- I just don't A BENJAMIN REFORTING SERVICE

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2 recall.

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3 Q Can you recall the names of any other persons 4 who might have had information with respect to the 5 possible sabotage threat?

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A I believe we informed headquarters of the
7 information, the group in the I&E headquarters staff,
8 the Safeguards Division, under Mr. Howard . I don't
9 recall now whether Mr. Howard was informed directly
10 or the members of his group, but it is my recollection
11 that they were made aware of the threat.

12 Q Was PEMA also made aware of the threat,13 to your recollection?

14 A Not directly, that I am aware of, although my 15 impression is that the state police would have

16 informed PEMA, but I can't confirm that.

17 Q Did any other events occur on Saturday 18 which we have not yet mentioned that you would like 19 to bring up?

20 A I don't think of any, no.

21 Q Let us move on to Sunday. What happened 22 on Sunday that was of significance, to your thinking? 23 A Well, I guess the principal thing was the visit 24 by the President.

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Q Did you have any involvement with that

BENJAMIN REPORTING SERVICE

	1	Grier 71	
5.7	2	visit or the preparation for it?	
	3	Yes, I was involved in terms of briefing Mr. Denton,	
	4	preparing him for his briefing in terms of environmental	
C .	5	radiological information that we had, the current	
	6	status, and I attended his briefing of the President	
	7	at the Harrisburg Airport, accompanying Mr. Denton at	
	8	that briefing.	
	9	Q Did you participate in the briefing at	-
	10	any time?	
	11	A No, I was simply present.	
	12	Q Did any other events occur on Sunday in	
	13	which you stepped out of your role as coordinating	
	14	authority for Region I at the site?	
	15	A The only other event that comes to mind, and	
	16	I am not sure whether Saturday or Sunday, but again,	
	17	I accompanied Mr. Denton at a press conference which	
	18	was held in Middletown, and that may have been Saturday	
	19	afternoon. It was the press conference at which the	
	20	question of the hydrogen bubble particularly was the	
,	21	issue, so that is the other event in this time frame	
C	22	where I was really not involved in coordinating the	
	23	ISE activities; whether that was Saturday or Sunday,	
	24	I am not sure at this point.	
	25	Q When did you finally leave Three Mile	
		BENJAMIN DEPROTING SERVICE	

1 Grier 2 Island Unit 2 to to return to Region I? A Well, I was there until the end of that first 3 4 week in April, went back again for the next week; I 5 came home for the weekend and went back for the next 6 week. I then was back for a few days, and then I 7 think I went back for another week, so I am not sure 8 now exactly of the time, but I was there on the order 9 of some three weeks with some breaks in between. 10 During that three-week period, were there 0 11 any events that occurred that you considered of note 12 or significance that you would like to bring up? 13 A Well, I don't think anything particular; things 14 continued. 15 What steps has Region I taken to change its Q 16 operations because of the accident at Three Mile Island, 17 or as a result of it? 18 A Well, I have already indicated some of the things

19 we have done in the area of duty officer, improved com-20 munications in the Incident Response Center with the 21 dedicated telephone lines. We have not yet been able 22 to really evaluate our plan and see what changes we 23 need to make; that has to be done.

24 I think those are the only areas, really, that 25 we have made changes at this point. We have continued

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to be involved with Three Mile Island to a great extent 2 because we have people on-site that are still involved 3 with inspection and surveillance of the activities 4 going on. We have also had considerable involvement 5 with the ISE investigation which has been going on 6 since that time. Mr. Allen had been in direct charge 7 of that, and we have had some people involved and 8 have been involved to a great extent in terms of 9 administrative support to that activity. 10

Grier

We have been involved in other areas which I 11 would describe as being a fallout from the Three Mile 12 Island incident in terms of inspections at other reactor 13 facilities. The ISE bulletins which were dispatched 14 to all facilities after the Three Mile Island event 15 had required extensive inspections and followup at 16 other sites, so this has really taken our resources to 17 a great extent. We have not had full opportunity to 18 19 evaluate and make the changes that we need to make. Q When do you expect that you will be able 20 21 to accomplish that goal? Well, I am hoping that soon after the first of 22 A September, that we will be in a better position to do 23 some of that. I don't see much hope before that. 24

2 How long do you think it will take once

BENJAMIN REPORTING SERVICE

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you get into it, after the first of September? 2 A It is going to take months and maybe as much as 3 4 a year before we can really make all of the changes that I see necessary. Of course, we have a number of 5 6 investigations and studies going on that are going to 7 result in recommendations that we will have to carry 8 out. IsE has its own special review group that is 9 looking at things in terms of our emergency response 10 for ISE and the regions and headquarters, the inspec-11 tion progpram, what changes need to be made there, so 12 that effort is currently going on.

We have people involved in that from here. They set a ten-week target for completing that. I would anticipate that will have direct impact on what we do; that should be completed sometime near the end of September, I believe, or early October, so I don't hold much hope for really making all the changes and getting them in place for several months.

20 Q Can you highlight for us quickly some of 21 the major changes that you think will be appropriate? 22 A Well, I think programmatically, one thing that 23 I want to do in terms of reactor operations is to make 24 some revisions to the responsibility of our nuclear 25 support sections in terms of assigning them

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responsibilities for support to particular reactor 2 types. I envision one group will be pressurized water 3 4 reactor support, and the other section will be boiling 5 water reactor support, and assigning them responsibility for in-depth reviews of licensee event reports, for 6 7 full understanding of the particular reactor systems, 8 and then in-depth understanding in those areas. I 9 think we have not been organized to provide the real 10 technical supportin those areas that we need.

Grier

We need to do more in terms of better coordination between reactor operations and the health physics or radiation protection areas; particularly, I think we need to, and this has to do with our emergency planning in terms of integrated response of operations and health physics; we can't leave emergency planning just to the emergency planners.

18 As I indicated, we need to look at our emergency 19 response plan here, in terms of revising that. I think 20 we need -- this is bigger than the region, but we need 21 to look at having better communications capability, 22 mobile communications capability, in terms of being 23 able to deploy from the regional office to the sites, 24 and better radiation monitoring capability for the 25 response team to take with them.

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5.11 Those are some of the things that I have in mind. 3 Q Do you have any final thoughts or comments or impressions that you would like to put on the record? A No, I don't think so. MR. PEARSON: Then we shall conclude the deposition. (Whereupon, at 11:25 a.m., the within deposition was concluded.) Boyce H. Grier 13 Subscribed and sworn to before me this day of 1979. Notary Fublic

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2	STATE OF NEW YORK)
3) SS.: COUNTY OF NEW YORK)
4	I, ROBERT ZERKIN, Notary Public of the
5	State of New York, do hereby certify that the
6	foregoing deposition of the U.S. NUCLEAR
7	REGULATORY COMMISSION, REGION NO.1, by BOYCE
8	H. GRIER, was taken before me on the 17th day
9	of August 1979.
10	The said witness was duly sworn before the
11	commencement of his testimony. The said testi-
12	mony was taken stenographically by myself and
13	then transcribed.
14	The ' 'in transcript is a true record of
15	the said deposition.
16	I am not related by blood or marriage to
17	any of the said parties nor interested directly
18	or indirectly in the matter in controversy; nor
19	am I in the employ of any counsel.
20	IN WITNESS WHEREOF, I have hereunto set
21	my hand this 20th day of August 1979.
22	Dit + hohn
23	- ROBERT ZERKIN
24	
25	

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