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UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

Title: BRIEFING ON DESIGN BASIS THREAT REEVALUATION

Location: Rockville, MARYLAND

Date: APRIL 22, 1993

Pages: 83 PAGES

NEAL R. GROSS AND CO., INC.

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UNITED STATES OF AMERICA

NUCLEAR REGULATORY COMMISSION

BRIEFING ON DESIGN BASIS THREAT REEVALUATION

PUBLIC MEETING

Nuclear Regulatory Commission One White Flint North Rockville, Maryland

Thursday, April 22, 1993

The Commission met in open session, pursuant to notice, at 2:35 p.m., Ivan Selin, Chairman, presiding.

COMMISSIONERS PRESENT:

IVAN SELIN, Chairman of the Commission KENNETH C. ROGERS, Commissioner JAMES R. CURTISS, Commissioner FORREST J. REMICK, Commissioner E. GAIL de PLANQUE, Commissioner

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STAFF AND PRESENTERS SEATED AT THE COMMISSION TABLE:

SAMUEL J. CHILK, Secretary

WILLIAM C. PARLER, General Counsel

JAMES TAYLOR, Executive Director for Operations

ROBERT BERNERO, Director, NMSS

FRANK MIRAGLIA, Deputy Director, NRR

ROBERT BURNETT, Director, Division of Safeguards & Transportation, NMSS

FRANK CONGEL, Director, Division of Radiation Protection and Emergency Preparedness, NRR

PAUL LEVENTHAL, President and Executive Director, Nuclear Control Institute

DAN HORNER, Deputy Director, Nuclear Control Institute

ELDON V.C. GREENBERG, Counsel to Nuclear Control Institute

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1	P-R-O-C-E-E-D-I-N-G-S
2	2:35 p.m.
3	CHAIRMAN SELIN: Good afternoon, ladies
4	and gentlemen. The Commission is meeting at this time
5	to receive a briefing on the reevaluation of the
6	design basis threat.
7	Mr. Leventhal, please have a seat.
8	Following the intrusion at the Three Mile
9	Island facility and the bombing of the World Trade
10	Center, the Commission requested the staff reevaluate
11	and update if necessary the design basis threat for a
12	vehicle intrusion and the use of vehicular bombs.
13	The briefing this afternoon will occur in
14	two sections. First there will be a public meeting
15	and after that a closed meeting where more specific
16	security information will be discussed.
17	I wish to assure the crowd that the closed
18	meeting really does go into more specific information
19	and nothing more than that. The essence of the staff
20	presentation will be given at the public meeting.
21	This is a means, first, for our invited
22	witnesses, the NCI, to discuss their views and then
23	for the staff to explain directly to the Commission
24	what options are being considered. By this means the
25	Commission hopes to gain a better understanding of the
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1	staff recommendations.
2	The Nuclear Control Institute, which has
З	requested to address the Commission, will present to
4	us their views first. I understand copies of the
5	viewgraphs are available at the entrance to this room.
6	Do any of the other Commissioners have any
7	opening remarks?
8	Mr. Leventhal, we welcome you and your
9	colleagues here and you may proceed.
10	MR. LEVENTHAL: Thank you very much, Mr.
11	Chairman, and also the members of the Commission.
12	We thank you for this opportunity to
13	present the views of both the Nuclear Control
14	Institute and the Committee to Bridge the Gap on the
15	need, as we see it, to require protection of nuclear
16	power plants against truck bombs and other forms of
17	vehicular attack.
18	As you know, we've been petitioning the
19	Commission to take such action over the better part of
20	the past decade and we do appreciate your willingness
21	to hear our views today and we hope to seriously
22	consider our appeal to take the requested action now.
23	As I said, we have been making these
24	appeals to the Commission on a pretty regular basis
25	since 1985 actually and my Institute established a
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first held an international conference on prevention 1 of nuclear terrorism and then convened a task force 2 with representatives of over nine countries looking at 3 various aspects of this rather troublesome problem. 4 One of the issues looked at was the importance of 5 establishing denial of access at nuclear power 6 facilities, denial of access being the best defense. 7 We've consistently over the years with the Committee 8 to Bridge the Gap, in their testimony before the 9 10 Advisory Committee on Reactor Safeguards and our letter to the Commission at the time of a specific 11 nuclear threat made over Radio Tehran at the time when 12 13 the U.S. was possibly prepared to knock out the Stuttgart missile batteries to the time of the Gulf 14 War when again we perceived a possible threat to 15 16 nuclear facilities. We've just been doing this for some time and we hope, as I will testify now, that 17 recent events will make it clear that such action is 18 indeed warranted. 19

As we stated in our recent communications with Chairman Selin, as well as in Senate testimony on March 19, our position is as follows:

23 One, current security requirements at 24 nuclear power plants are inadequate to protect against 25 vehicle bombs because vehicular attack is not included

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1	in the design basis threat for radiological sabotage.
2	Second, recent events have made clear that
3	such attacks are credible and that the Commission
4	cannot rely on sufficient advance warning to put
5	protective measures in place.
6	Third, the Commission must therefore
7	promptly mandate permanent measures to upgrade
8	security at licensed reactors.
9	We're encouraged by the Commission's March
10	1 directive on reevaluation of a design basis threat
11	and the staff's March 11 action plan is encouraging,
12	but in our view they do too little, too slowly and
13	provide no assurance of real reform at the end of the
14	process. We think that the one year time line built
15	into the plan is excessive given the potentially
16	catastrophic consequences of a truck bomb attack and
17	the feasible and relatively inexpensive measures that
18	can be put into place quickly to prevent such an
19	attack.
20	The issue has been before the Commission
21	for a decade, since the truck bombings of the U.S.
22	Embassy and the military compound in Beirut. There is
23	no reason after the TMI and the World Trade Center
24	incidents here in this country for further delay in
25	acting to protect our reactors against vehicular

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attacks. We emphasize and wish to stress that the action plan you have before you does not preclude the Commission's acting more expeditiously than within the one year time frame that's laid out in that plan and we ask the Commission to seize the opportunity today to issue an immediately effective rule modifying the design basis threat to include vehicular attack in ordering utilities to proceed immediately with installation of permanent roadway barrier and perimeter denial systems.

The other elements of upgrading the design 11 basis threat, namely increasing the number of presumed 12 attackers, the capability of their armaments and the 13 level of insider assistance to be protected against, 14 all of those can be considered in accordance with the 15 time line of the March 11 action plan. But we wish to 16 emphasize the importance that we place on immediately 17 effective rule to first of all acknowledge that 18 nuclear power plants can be attacked with a vehicle 19 and, secondly, to require utilities to put in the 20 basic defenses that would make such attacks virtually 21 impossible. Talk about simple physical barriers that 22 23 have been costed out for the Commission on previous occasions. 24

You're familiar with the Sandia National

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Laboratory's report that was commissioned by the NRC 1 in 1984 after the Beirut bombings and the non-2 classified summary of that report which states that 3 the results show that unacceptable damage to vital 4 reactor systems could occur from a relatively small 5 charge at close distances and also from larger but 6 still reasonable sized charges at large setback 7 distances greater than the protected area of most 8 plants. A second report from Sandia was prepared on 9 the variety of counter measures that could be used and 10 SECY-86-101 that same year estimated that a vehicle 11 denial system for roadway access would cost about 12 \$100,000.00 to \$200,000.00 for a facility and 13 \$10,000.00 to \$20,000.00 annual to maintain while a 14 perimeter access denial system would only cost 15 \$500,000.00 to \$1 million to install and \$25,000.00 to 16 \$50,000.00 annually to maintain. 17

18 Chairman Selin, you cited similar figures19 in your Senate testimony of March 19.

Now, past Commissions have chosen not to upgrade the design basis threat on the grounds that a truck bomb attack in the United States was not credible, that there was no specific credible threat against nuclear facilities and if such a threat materialized there would be sufficient advance warning

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to take appropriate preventive measures.

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We believe that these claims were 2 dramatically debunked by the surprise truck bomb 3 attack on the World Trade Center on February 26th and 4 by the letter received by the New York Times which, 5 according to published reports, has been linked by 6 federal investigators to defendants in the case. As 7 you know, that letter, in the name of the Liberation 8 Army 5th Battalion, included a threat against "nuclear 9 targets" and claimed "more than 150 suicidal 10 soldiers." 11

This incident, on top of the Three Mile 12 Island incident in which a demented terrorist 13 successfully penetrated a plant and brought his 14 vehicle within the "close distances" required to 15 conflict "unacceptable damage" with a "relatively 16 small charge," to use the terms of the 1984 Sandia 17 stud . We believe that this event, in combination 18 with the TMI event, should make the required action by 19 the Commission guite clear and we remain puzzled as to 20 why the Commission will not act more promptly to close 21 what we regard to be an obvious vulnerability. 22

23 Chairman Selin, you yourself indicated 24 that had the motorist been transporting explosives, 25 that he could have damaged safety and emergency

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systems and, to use your words, and then you're skating on very thin ice. We submit that the Commission really does not know just how thin the ice was at TMI or is at other reactors, or to put it another way, how deep is defense in depth without applying the IPEEE program to apply to radiological sabotage.

For this reason, we believe that an 8 enhanced implementation of the IPEEE program, one that 9 examines the ability of vital systems to withstand 10 credible explosions, should be among the items in the 11 ongoing reevaluation of the design basis threat. 12 13 Because a single explosion could destroy multiple safety systems, examples of which we specified in the 14 annex to our original request for action for an IPEEE 15 16 program applying to this particular danger, we believe that IPEEE is an essential corollary to upgrading the 17 design basis threat. 18

My testimony goes on to cite the chronology laid out in the Incident Investigation Team's report on the TMI intrusion and to point out that -- what chould be obvious in the report, which is that both TMI and NRC personnel failed to considered promptly the possibility of radiological sabotage. But, of course, we note that they were not required to

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consider the possibility of a vehicle bomb since that possibility is not included in the design basis threat.

In short, personnel were not prepared for the possibility of radiological sabotage and more than two hours elapsed before they even checked for a bomb and a total of four and a half hours passed before explosives were finally ruled out by the experts.

We support the action taken by General Public Utilities. They obviously read the writing on the wall, realized the extent to which their plant was vulnerable or, to put it another way, how lucky they are that Mr. Nye did not carry explosives in his car. We believe the NRC should take its cue from GPU and promptly upgrade the design basis threat to protect against such attacks without waiting to see whether one materializes, whether a truck bomb attack materializes at a domestic nuclear power plant.

19 None of the Commission's past reasons for 20 refusing to act can be plausibly defended by this 21 Commission today. A vehicular intrusion has occurred 22 at an operating nuclear power plant. A successful 23 truck bomb attack has taken place in the United 24 States. There was no advance warning in either case 25 and there is now a specific and credible threat

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against nuclear facilities. Under such compelling circumstances, continued inaction by the NRC would be imprudent and would endanger the public health and safety and the common defense and security of the United States, both of which it is your mission to protect under the Atomic Energy Act.

So, we asked the Commission today to adopt 7 an immediately effective rule upgrading the design 8 basis threat to include attacks with a vehicle. We 9 asked the Commission to order licensees to immediately 10 erect roadway barrier and perimeter denial systems. 11 We asked the Commission to implement an IPEEE program 12 to determine the ability of vital systems to withstand 13 credible explosions, and we asked that you vote to 14 take these actions today before the conclusion of this 15 16 meeting.

There's no question that the NRC's own 17 rulemaking procedures permit the Commission to take 18 such action by means of an immediately effective rule 19 if it finds that for good cause the usual notice and 20 comment are "impractical or impracticable or contrary 21 to the public interest." We submit that to delay any 22 longer taking the basic measures needed to address the 23 obvious vulnerability of nuclear power plants to truck 24 bomb attacks is both impracticable and contrary to the 25

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1	public interest.
2	We thank you again for this opportunity to
3	express our views and I and my associates, Eldon
4	Greenberg, our counsel, and Daniel Horner, our Deputy
5	Director, would be pleased to answer any questions you
6	might have.
7	CHAIRMAN SELIN: Thank you for your
8	presentation. Thank you for a well prepared
9	presentation. You stayed within the time limits. You
10	even guoted me accurately. I thank you for that.
11	I'll turn to Commission Rogers first. Do
12	you have questions for the witnesses?
13	COMMISSIONER ROGERS: Well, do you have
14	any knowledge of what's happening in any other Western
15	countries that have commercial nuclear power programs
16	that perceive a growing and credible threat of this
17	sort? What is your information with request to other
18	situations in other countries?
19	MR. LEVENTHAL: I do not know what they're
20	doing in the current circumstances. There have been
21	threats made by the Serbs actually, a couple of
22	threats made by the Serbs to attack European nuclear
23	power plants in the event that there were military
24	intervention in the former Yugoslavia. But it is my
25	understanding that use of a vehicle is contemplated in

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1	preparing the defenses for those plants. I visited
2	plants in Germany and in Japan, two nations that come
3	to mind, and it's obvious that they have the kinds of
4	barriers in place that have attacked by vehicle rather
5	than attacked with sneakers in mind. Whether they're
6	on a heightened state of alert today because of this
7	situation in the U.S. with the World Trade Center or
8	because of the Serbian situation, I don't know, but I
9	think the point is that those plants are better
10	protected against vehicular attack than U.S. plants.
11	COMMISSIONER ROGERS: Thank you.
12	COMMISSIONER REMICK: If you have any
13	specific information on what you just stated, I would
14	appreciate receiving it.
15	MR. LEVENTHAL: Okay. Thank you.
16	COMMISSIONER CURTISS: I just have two or
17	three areas I'd like to explore.
18	I take it from your recommendation that we
19	move forward with immediate action, an immediately
20	effective rulemaking to a rule to address what you see
21	as the problem. Do I correctly infer from that that
22	in the context of the procedures that we've
23	established for backfits, if you applied those here,
24	that you would view this as an adequate protection
25	question, action ought to be taken to protect the

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1	public health and safety today immediately and it
2	ought to be done irrespective of the cost?
3	MR. LEVENTHAL: In other words, taking the
4	cost effective factor into consideration? Is that the
5	thrust of your question?
6	COMMISSIONER CURTISS: Let me phrase it
7	differently. Under the regime that we have, we were
8	able to take action without regard to cost when
9	necessary to protect the public health and safety. To
10	go beyond that, the regulation requires that we
11	evaluate the costs associated with those actions.
12	MR. LEVENTHAL: Yes. I'm sorry. Now I
13	understand the question. I would say that the
14	circumstances in this case clearly would justify that.
15	I think the TMI intrusion which was recaptured on
16	video tape on sort of a delayed replay basis,
17	indicated that this was not a hard target, this was a
18	soft target. He drove through an open gate, he
19	crashed through two protected area fences and through
20	the aluminum door of the turbine building and 60 feet
21	into the plant, close enough so that had the car had
22	explosives, it would have affected vital systems.
23	That suggests a vulnerability that if someone was
24	determined to engage in this kind of an attack today,
25	he might well be able to be successful. I don't
	[19]

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understand why U.S. plants should be vulnerable in that way when other buildings that are important to the public, not only in health and safety terms but in governmental terms, are protected.

COMMISSIONER CURTISS: I asked the question because the written statement and your presentation here does include some discussion of what the costs are of the various options. Just to be clear here, what you're proposing is that we take this action as an action necessary to protect the public health and safety, to maintain adequate protection and it should be taken irrespective of what the cost is. MR. LEVENTHAL: That's correct.

COMMISSIONER CURTISS: Okay. Secondly, I 14 take it your organization's respective positions 15 throughout this discussion, going back to 1985, I 16 think you said, have consistently been that the 17 vehicle threat, even though we hadn't had one prior to 18 TMI, was sufficiently credible in your view, given 19 what was going on in the world generally, that we 20 ought to modify the design basis threat to account for 21 at least prior to TMI a yet to be demonstrated vehicle 22 bomb threat. Is that an accurate statement for you? 23 MR. LEVENTHAL: That's correct. We 24 considered the threat credible even before the TMI 25

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intrusion and the World Trade Center explosion.

COMMISSIONER CURTISS: Okay. All right. 2 Now, recognizing that your testimony here is focused on the vehicle bomb threat, taking those two points, 4 as we've just discussed them, that this action is 5 necessary to protect the public health and safety and 6 hence cost ought to be irrelevant in what we do, and 7 secondly it doesn't take an actual vehicle threat as 8 we had with the TMI, you could know that beforehand, 9 the logic of your argument would suggest, and here I 10 want to explore how far you would carry the argument, 11 would suggest that we ought to do the same thing for 12 waterborne bombs or for airplanes. You're not 13 suggesting that here at least today. How do you 14 distinguish, given the logic of your argument, why we 15 should address vehicle bombs and not, if in fact 16 that's your position, go beyond that to address 17 waterborne bombs or airplane attacks or what have you? 18 What is the basis for distinguishing the two? 19

20 MR. LEVENTHAL: Well, we don't really make 21 that distinction, at least not in our petition for 22 rulemaking which was, as you know, rejected by the 23 Commission. There we included all surface vehicle 24 bombs, both boat borne and truck or car borne bombs. 25 We did not deal with -- I believe we specifically

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excluded at the time reference to bombs borne by aircraft simply because we realized that that was a different type of a problem, one that would be more difficult to defend against and our logic was that if you have the opportunity to defend against one type of an attack on a pretty effective basis, that you perhaps should move promptly to deal with that and ponder further the more difficult form of attack and one that would probably be less likely to occur, since one has to assume that it's easier and more feasible to attack by boat or by car or truck than it is by plane.

13 COMMISSIONER CURTISS: Is your argument 14 there that it is less likely to occur because they 15 don't rent airplanes at U-Haul centers or what have 16 you, that they're less able to obtain that form of 17 transport or that it's more difficult, read more 18 costly and perhaps impossible to protect against that 19 kind of threat?

20 MR. LEVENTHAL: Well, it's surely easier 21 to rent a truck than it is to rent a plane. So, I 22 guess one has to assume on that basis that it's 23 somewhat less probable that an attack would come by 24 plane.

MR. GREENBERG: If I could interject here

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for a moment.

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2	COMMISSIONER CURTISS: Yes, please.
3	MR. GREENBERG: We were looking at a
4	situation where there was substantial evidence that
5	truck bombs were weapons of choice by terrorists. We
6	had the Beirut incidents in 1983 that really
7	stimulated the whole U.S. government to look at the
8	particular problem of land borne vehicles carrying
9	explosives. When you start looking at something like
10	an airplane, that's a hypothetical possibility but we
11	don't have any experience, at least none that I'm
12	aware of.
13	COMMISSIONER CURTISS: Yes, Would it be
14	fair to say that airplanes and boats are not credible
15	threats?
16	MR. LEVENTHAL: No, I think attack by boat
17	is a credible threat and I also understand that there
18	has been some attention paid to that in terms of the
19	design of the plants themselves. There appears to be
20	no attention paid to penetration by cars or trucks.
21	Surely it's not included in the design basis threat
22	and the TMI intrusion is proof positive that the plant
23	was highly vulnerable.
24	COMMISSIONER CURTISS: An airplane threat,
25	I guess, would be a not credible event then. Is that
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what I should infer?

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2	MR. LEVENTHAL: No, it could be credible,
3	but it's also harder to defend against. What I'm
4	trying to argue here is that simply because there's
5	another type of threat that's harder to defend
6	against, that's not a reason for not defending against
7	a threat that you can more readily defend against.

COMMISSIONER CURTISS: Logically I think R you make a persuasive argument, a compelling argument 9 10 and in some respects I agree with the points that you make. But from the standpoint of the framework within 11 which we have to render a decision on this, the logic 12 of the argument that when one makes the case that it's 13 14 an adequate protection issue, that is to say you assume that this is necessary to protect the public 15 health and safety and that you don't need an intrusion 16 to be demonstrated, as you've maintained since 1985 17 18 that vehicle borne threats are, in fact, credible long before we had the TMI event. The logic does cause you 19 20 to ask the question, "How far would you carry that? Would you carry that to waterborne bombs or airplane 21 threats to the plant or what have you?" 22

MR. LEVENTHAL: We'd definitely include 23 waterborne bombs. There are ways to assure a setback 24 distance in that given situation. We are here talking 25

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essentially about setback distances. We're talking 1 about denial of access. With a plane, it's obviously 2 a very different type of a situation and it's a very 3 difficult situation. Some plants are better equipped to defend against it than others. In fact, TMI, as it 5 turns out, is better defended against an airborne 6 attack because of this special containment because the 7 plant is close to an airport. 8

COMMISSIONER CURTISS: Okay.

MR. LEVENTHAL: T think what the 10 Commission has to look at is in the worst case how are 11 you going to defend not having taken action if there 12 is an attack against a plant? On what basis are you 13 going to explain to the public why, after TMI-1, after 14 the World Trade Center it was still felt that there 15 was not an urgent enough situation to take the most 16 fundamental kind of defense here and the one that is 17 the least costly to implement, namely physical 18 barriers. 19

COMMISSIONER CURTISS: Okay. Let me pick 20 up on that point because I have two other quick areas 21 22 I'd like to pursue with you.

In your testimony in 1988 before the 23 Gejdenson Subcommittee, at the time what you described 24 in terms of the physical protections that you would 25

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recommend be taken and described in the public record was a double chain link fence with an aircraft cable between the fence with a standoff distance of 100 yards, assuming a five ton truck and I think that was the gist of the steps that you suggested be taken. Is that your position today, that action if taken would be sufficient to address the problem?

MR. LEVENTHAL: Those types of defenses, 2 I believe that was on the basis of some expert advice 9 we got at the time as to what would work best. There 10 11 may, in fact, have been improvements in the technology. But basically aircraft cable to prevent 12 penetration of the perimeter fence and hydraulically 13 lifted gates to prevent access through the main 14 15 driveways as well as perhaps concrete flower pots to require a zigzag route into the plant. These are 16 17 methods and technologies that are well known, relatively inexpensive and can be installed fairly 18 quickly. 19

20 COMMISSIONER CURTISS: Okay. If one were 21 to take those steps that you've just outlined and 22 emphasizing here that that would include the requisite 23 standoff distance, which you defined at the time as 24 100 yards, would that moot the question of whether we 25 should address this issue in the context of IPEEE?

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What's left to address in IPEEE if you take steps that essentially eliminate the threat?

MR. LEVENTHAL: I guess what's left is the question if there were an explosion at that point because the truck couldn't get any further in. Are there any systems on the plant grounds or within the plants that could be affected by a blast, a credible explosion that could be achieved at that distance?

9 COMMISSIONER CURTISS: Yes. I'm taking 10 your proposed standoff distance of 100 yards as the 11 assumption here. Let's assume for the sake of 12 argument that that would be sufficient to counter the 13 effects of the blast.

MR. LEVENTHAL: I don't know the answer to 14 that guestion. I think that's what you need an IPEEE 15 program to find out and that's a very good example of 16 why the program makes sense. We don't know how great 17 the defense in depth is when it comes to redundant 18 systems that could be knocked out with a single 19 explosion. We did submit, as I mentioned in my 20 testimony, a list that we wanted to submit under seal. 21 The Commission advised us we did not have to submit it 22 under seal, even though it was our preference to do 23 We were advised by experts that those are 24 so. examples of potentially vulnerable systems that you 25

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1	want to check out and would be appropriate to be
2	checked out with an IPEEE program.
3	COMMISSIONER CURTISS: Okay. I don't have
4	any other questions.
5	CHAIRMAN SELIN: Commissioner Remick?
6	COMMISSIONER REMICK: Just following up on
7	your answer to one of the Commissioner Curtiss'
8	questions, you indicated that you thought the boat
9	bomb and aircraft bomb were less likely. But it seems
10	if you had
11	MR. LEVENTHAL: Not the boat bomb.
12	COMMISSIONER REMICK: Oh, I'm sorry.
13	MR. LEVENTHAL: I didn't say the boat
14	bomb. Aircraft.
15	COMMISSIONER REMICK: Okay. Aircraft
16	bomb. But if you had determined terrorists and you
17	were able to prevent vehicle bombs and prevent against
18	boat bombs, I would think the aircraft bomb approach
19	would become more likely then if you had determined
20	terrorists.
21	MR. LEVENTHAL: It might well, and then I
22	think you'd also have to think through how you can
23	best defend against that. I wouldn't deny that, but
24	I would argue, as I did before, that if there are
25	vulnerabilities that you can effectively close at

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1	relatively little cost and do it quickly, that you
2	should do that even if there are other forms of attack
3	that are still possible.
4	COMMISSIONER REMICK: You indicated both
5	in your written testimony and your oral presentation,
6	"And there is now a specific and credible threat
7	against nuclear facilities." What specifically are
8	you referring to there?
9	MR. LEVENTHAL: I was referring to that
10	letter received by the <u>New York Times</u> and that we
11	understand has been linked to the defendants in the
12	World Trade Center case,
13	COMMISSIONER REMICK: And you view that as
14	a credible threat?
15	MR. LEVENTHAL: Well, we don't have full
16	access to the intelligence available and to the
17	investigation itself, as I assume the Commission does
18	and as I assume you may be briefed on this afternoon.
19	I guess I would say this If there's any uncertainty
20	in the minds of the federal investigators as to
21	whether this group has links with other groups or
22	whether it is presenting the views of others who are
23	still at large and have the same kinds of capabilities
24	that were employed at the World Trade Center, if I
25	were in your position I'd be very nervous about that

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1	and I wouldn't want to hang my hat on assurances by
2	the same agencies that missed the World Trade Center
3	attack entirely that you have nothing to fear right
4	now.
5	I think if you can take prudent action to
6	close existing vulnerabilities, you can breathe a lot
7	easier about the possibility that intelligence
8	agencies might miss the next threat and that the next
9	threat might be directed to a nuclear facility.
10	COMMISSIONER REMICK: Do you happen to
11	know in that letter what they were referring to when
12	they said nuclear targets?
13	MR. LEVENTHAL: No. They spelled nuclear
14	with a capital N. I don't know what that suggests.
15	But we are aware of what the potential nuclear targets
1.6	are in the United States and one of them is the more
17	than 100 operating nuclear power plants. Those are in
18	your charge. They may mean defense establishments,
19	they may mean transports. Some of the transports are
20	in your charge, others are not. But what's clearly in
21	your charge I think you should attend to.
22	COMMISSIONER REMICK: Well, in your
23	proposal, are you proposing that we address just
24	nuclear power plants of the various facilities under
25	our jurisdiction?
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MR. LEVENTHAL: Well, you're aware that 1 nuclear fuel facilities -- there was a review of the 2 design basis threat there to make it comparable to the 3 requirements that DOE applies to its facilities, and 4 the Commission took an interesting action at that 5 time. They said, "Well, DOE doesn't have any nuclear 6 power plants. We do. They're not -- so, whatever 7 applies to their reactors doesn't necessarily apply to 8 us. With their nuclear fuel facilities, since there 9 10 was a comparability question involved there, the Commission did upgrade to the design basis threat to 11 contemplate attack with a vehicle. We don't 12 understand why an attack with a vehicle is credible at 13 a nuclear fuel facility licensed by the NRC, but is 14 not credible with regard to a reactor licensed by the 15 NRC and we think it's that kind of inconsistency that 16 you should address realistically, not legalistically, 17 18 although realistic and legalistic are not necessarily in conflict. But one can often get in the way of the 19 20 other.

I think you've got a real world situation on your hands here today. You've got an immediately effective way to deal with it and we're urging you to please do it.

COMMISSIONER REMICK: Yes. But you are

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1	addressing nuclear power plants strictly.
2	MR. LEVENTHAL: In this testimony, yes.
3	COMMISSIONER REMICK: In this testimony,
4	okay.
5	MR. LEVENTHAL: That's correct.
6	COMMISSIONER REMICK: Now, I assume that
7	it's not clear, but I'm assuming that your interest is
8	preventing radiological sabotage and not diversion or
9	economic loss to the plant. Am I correct?
10	MR. LEVENTHAL: I think if there were an
11	explosion, there would probably be all of the above,
12	but we are dealing specifically with radiological
13	consequences, that's correct.
14	COMMISSIONER REMICK: Does the Institute's
15	interest include facilities other than nuclear
16	facilities that might be subject to terrorist threats
17	also?
18	MR. LEVENTHAL: Well, we are the Nuclear
19	Control Institute, so our assigned interest is that of
20	nuclear facilities. I guess I would like to
21	concentrate my testimony on that question. There are
22	a lot of facilities to worry about. Some of them are
23	already protected in ways that we think nuclear power
24	plants should be protected.
25	COMMISSIONER REMICK: But you're not
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proposing all public buildings or all reservoirs or chemical plants or anything like that? It's not your purview?

4	MR. LEVENTHAL: It's not part of our
5	proposal, but I would say logic would dictate that
6	there ought to be a lot of different types of
7	facilities in buildings where security should be
8	addressed as a consequence of the World Trade Center
9	explosion. But in our testimony and because of our
10	particular mission, we deal with nuclear facilities.
11	COMMISSIONER REMICK: Would that
12	protection include vehicle bomb barriers, vehicle
13	access barriers and so forth, those various other
14	potential targets?
	MR. LEVENTHAL: In non-nuclear facilities?
15	
16	COMMISSIONER REMICK: Yes.
17	MR. LEVENTHAL: Yes, to the extent it can
18	be practically and feasibly applied.
19	COMMISSIONER REMICK: Okay. I think that
20	answers my question.
21	CHAIRMAN SELIN: Thank you, Commissioner.
22	Commissioner de Planque?
23	COMMISSIONER de PLANQUE: I have no
24	further questions.
25	CHAIRMAN SELIN: Fine.

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COMMISSIONER CURTISS: Just one question. CHAIRMAN SELIN: I'm sorry. Go on, Commissioner Curtiss.

COMMISSIONER CURTISS: I'll plead guilty 4 to being legalistic, I guess, since I'm the lawyer on 5 the Commission. I do think it's important though that 6 as we hear your appeal and there is some logic to it, 7 but as we hear your appeal whatever action we take is 8 one that is based upon what we've seen to date that is 9 consistent with the decisions that we've taken in 10 other contexts and that can be defended as such when 11 it comes to future circumstances that might arise. 12 You pointed to a question on your part as to why 13 category 1 fuel facilities and reactors were treated 34 differently, what you perceived be to an 15 inconsistency. I actually think there is an answer to 16 that and that is that there's material at category 1 17 facilities that might be guite attractive to a 18 potential terrorist and maybe more attractive and 19 hence there is a logic to that. 20

Similarly in asking the questions that I did about whether you view this as a backfit, an adequate protection issue, how you would propose to treat waterborne and airborne threats, one ought to ask the question if we move forward in a particular

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way in this context, is there a basis for it, will 1 2 people come in and argue at some future point based 3 upon the action we take here? The logic of that action dictates that we ought to protect against 4 waterborne or airborne bombs or what have you 5 irrespective of the cost. 6 So, if that's a legalistic view, I plead 7 8 quilty to that. I think it is a question that goes to 9 the logic of whatever we do and I think that is an 10 important consideration here. 11 MR. LEVENTHAL: I guess I sort of subscribe to the logic of someone we know in common, 12 Big Al Simpson, which would be to say if there's 13 something you can do easily and practically, why not 14 do it and be done with it and not belabor it? That 15 16 was the philosophy he expounded upon when I was cochairing the TMI investigation with Jim Asselstine and 17 18 I think it's a pretty good logic to apply here. 19 COMMISSIONER CURTISS: I came to know it 20 well. 21 CHAIRMAN SELIN: Yes. I would like to 22 make a couple of comments. It's really for the 23 record. 24 Our view on those fuel facilities which 25 handle enriched uranium, more highly enriched uranium, NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1323 RHODE ISLAND AVENUE, N.W.

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is not to protect them against the vehicle bomb threat 1 but to protect them against vehicle penetration that 2 might lead to the special nuclear materials being 3 carted away. Right or wrong, it's a different logic. 4 I don't think there's an inconsistency that we handle 5 those facilities different ---6 MR. LEVENTHAL: But if I may respond to 7 that, those facilities have, because of those 8 defenses, built in protection against radiological 9 10 sabotage that might be affected by a vehicle. 11 CHAIRMAN SELIN: Could be, but the design threat does not include a vehicular bomb, it includes 12 vehicular penetration. 13 MR. LEVENTHAL: But that's how vehicular 14 bombs are executed. They get in as close as they can 15 and then they explode. So, the point I'm making is 16 that you do have implicitly protection --17 18 CHAIRMAN SELIN: Mr. Leventhal, you're arguing we were handling them inconsistently. I'm 19 20 debating that. I'm not saying that inadvertently we might actually have satisfied you on the facilities 21 22 that may have happened. 23 The second is that the ground rules for 24 our review are limited to radiological damage. Our charter is to radiological protection of the general 25 NEAL R. GROSS

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public, that if in so doing we manage to protect the economic investment or the people who work in the plant, that would be so much better, but that's not in our ground rules. Our ground rules are should we reconsider the threat of what --- the design threat that would lead to radiological damage.

The third is I really do have to -- as 7 plausible and as interesting as your testimony is, I 8 guess I can't guite say that I'm the realistic on the 9 Commission, to go with Commissioner Curtiss being the 10 lawyer on the Commission, but realistic or not, if we 11 say that this threat is plausible enough that it 12 should be fixed immediately, then we don't have to 13 look at our backfit rule. If we argue that the threat 14 is reasonably plausible, no more nor less than other 15 threats but the defenses are so easy we should do 16 them, then we do have to go through our backfit rule 17 and say, "Are the defenses -- the costs commensurate?" 18 because if it really is a threat to health and safety, 19 then we're not supposed to take the degree of defense 20 in hand. 21

I will also say, in my opinion the waterborne threat is considerably less plausible than the bomb threat, particularly because of the amount of -- of the vehicular threat partly because of

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1	experience with vehicular threats and partly because
2	of the difficulty of getting a waterborne vehicle to
3	a place where you have reasonably high confidence that
4	you would do severe damage to the plant.
5	You're a very good witness. I noticed no
6	matter what the question is your answer is always the
7	same, and that's a sign of sophistication.
8	MR. LEVENTHAL: Could I say at one point
9	on the economic aspect, I wonder if there is a single
10	public utility commission in this country that would
11	object to a \$1 million or so cost being folded into
12	the rate base to provide the kind of protection that
13	could be affected here today by simply voting aye on
14	the question of the immediately effective rule and the
15	required installation of those barriers.
16	CHAIRMAN SELIN: Sure. But we don't have
17	the authority to issue an immediately effective rule
18	on the grounds that it's only \$1 million. It would
19	have to be on the grounds that the threat calls for it
20	from the point of view of the protection of
21	MR. LEVENTHAL: I understand that.
22	CHAIRMAN SELIN: Otherwise we whether
23	we get comment or not, we need to go through the
24	backfit calculations, et cetera.
25	MR. LEVENTHAL: We think the health and
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safety arguments are quite plausible and quite compelling.

CHAIRMAN SELIN: Okay. Thank you --3 COMMISSIONER ROGERS: I'd like to just say 4 one -- make one little point on cost. The costs that 5 you've alluded to here are financial costs, dollars. 6 Our concerns are not only with those kinds of costs, 7 but the costs that come about in perhaps diverting 8 attention or making it more difficult to carry out the 9 operation of the plant itself in the safest possible 10 way. We've seen already from the TMI experience that 11 the physical security requirements do interfere with 12 the safe operation of the plant under normal 13 circumstances. That's a cost in my view and it's a 14 very high cost and probably a much higher cost than 15 the dollar cost that one talks about here. 16 17 So, I think that when one talks about

cost, the costs have to be not only in purely economic 18 terms, but the overall cost in the safe operation of 19 the plant, whether that is improved or perhaps in some 20 way reduced as a result of improving -- responding to 21 22 another possible threat. I think you must take into account that this Commission considers all of these 23 matters and we certainly are not dictating or not 24 directing our attention solely to dollar costs of 25

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installing some kind of physical barrier. I think we're concerned in moving into this domain with what the operational difficulties are that may come about.

For example -- I'm not giving this as something that we really have studied, but for example the access of fire equipment to respond to something going on in the protected area. To what extent would these kinds of barriers interfere with that in a way that might possibly cause a much more serious problem that we know about that can happen. So, these are other matters that must be taken into account as we view introducing new additional impediments to the operation of the plant.

MR. LEVENTHAL: I would just respond very 14 briefly that I'm familiar with what some of those 15 impediments are when it comes to dealing with the 16 insider threat and the pat-down rule and that sort of 17 thing. I think putting cable up around the perimeter 18 of the protected area to prevent unauthorized 19 penetration and installing hydraulically lifted gates 20 that can be immediately lifted when there is a 21 perceived threat, I don't think those should interfere 22 too severely with the safe operation of the plant. In 23 fact, I would argue that's a further reason for 24 proceeding along the lines that we recommend today. 25

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MR. GREENBERS: I think we pointed out in our testimony as well, Conmissioner Rogers, that there are a number of plants, not a large number, but several at least, that do have these kinds of vehicular protections. To my knowledge, no one has suggested that those compromise the safe operations of --

COMMISSIONER ROGERS: But every single 8 plant in this country is different from every other 9 plant. The physical layouts are different. They're 10 very, very different and you cannot argue that 11 something that doesn't interfere with safe operation 12 at one plant would automatically not interfere at 13 another plant. It could very well -- it very well 14 15 might.

MR. LEVENTHAL: But where is the greater 16 danger? Is the greater danger that tomorrow or the 17 day after someone might actually attempt to explode a 18 bomb inside the plant grounds, or is the greater 19 danger that by putting in these barriers you're 20 somehow going to interfere with fire fighting 21 equipment arriving for an entirely different matter? 22 That's exactly the 23 CHAIRMAN SELIN: question --24

COMMISSIONER ROGERS: That's exactly the

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1	question.
2	CHAIRMAN SELIN: that we're going to
3	have to look at.
4	COMMISSIONER ROGERS: That's exactly the
5	question.
6	MR. LEVENTHAL: Well, my answer to that is
7	that, at least to my mind, it's pretty obvious what
8	the answer is.
9	COMMISSIONER ROGERS: Well, it's not at
10	all obvious to this mind.
11	CHAIRMAN SELIN: Fair enough. At the risk
12	of not letting you get in the very last word, Mr.
13	Leventhal, remember the Hebrews had to wander around
14	40 years in the wilderness. Eight isn't that long.
15	Thank you very much for having been
16	witnesses and we call the staff at this point.
17	MR. LEVENTHAL: I'd like to leave with you
18	also our counsel, Eldon Greenberg's testimony before
19	the Senate Subcommittee. It does lay out the
20	chronology of the various efforts and I alluded to
21	those.
22	CHAIRMAN SELIN: Would you give it to the
23	Secretary? Fine.
24	MR. LEVENTHAL: Thank you again.
25	CHAIRMAN SELIN: Thank you.
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1	COMMISSIONER CURTISS: Thanks, Paul.
2	CHAIRMAN SELIN: I think without further
3	adieu, we'll welcome you, Mr. Taylor and the staff,
4	and ask you to go ahead with your presentation.
5	MR. TAYLOR: We're here in response to the
6	Commission's request that staff reevaluate the current
7	design basis threat for radiological sabotage. Our
8	briefing today represents the first phase of that
9	reevaluation in which we will briefly describe the
10	Commission's previous deliberations on vehicle threats
11	and then identify an updated list of physical security
12	options for consideration.
13	I note that in the interest of an open and
14	thorough review of the design basis threat, the staff
15	will conduct a subsequent public meeting to obtain
16	information from all interested parties and that
17	meeting is scheduled for May 10th at the Crown Plaza.
18	Thus, the staff will not provide specific
19	recommendations to the Commission today, but will do
20	so after the public meeting so that the results of it
21	can be considered by the staff and used appropriately
20	for its recommendations.
4.	I'll now ask Bob Burnett to commence the
24	presentation.
25	MR. BURNETT: Good afternoon.
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You'll have to bear with me a little bit today. Today's briefing is going to be somewhat 2 difficult. Some of the supportive details, Mr. Chairman, that you already referred to are classified and it makes the job of asking questions and answering 5 them somewhat difficult. But we are going to try our 6 very, very best to be candid and as open as possible 7 within the security boundaries. 8

Also, another difficulty that we incurred, 9 the World Trade Center incident, which we all know 10 happened in February, we had hoped that we would have 11 additional data available for today. But because of 12 a gag order that has been put in place in the State of 13 New York, no additional information has been made 14 available to our Agency. 15

As the EDO mentioned, the public meeting is now scheduled for May the 10th at the Holiday Inn in Rockville. We have put out a news release and a Federal Register notice and copies of those were provided at your desk when you showed up. They are at both doors.

Now, with all of those caveats, what are 22 we going to cover today? Well, we hope to give the 23 Commission some background on how this issue was dealt 24 within the past, what the staff actions were in the 25

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past and outline the options that staff have currently under consideration, and then sometime after the public meeting we will come back to the Commission with an analysis of the public meeting, a more detailed presentation of staff analysis and recommendations from the staff.

(Slide) Slide 2, please.

All right. Why are we here today? I think we've all said it several times. It's because of recent incidents, the Three Mile Island intrusion and the World Trade Center bombing. Both of these incidents has caused the Commission, as well as the staff, to reconsider the design basis threat and the subsequent protection that is afforded to nuclear facilities in this country.

During the review, I think it is important 16 that we mention the relevant petitions submitted by 17 the Nuclear Control Institute and the Committee to 18 19 Bridge the Gap. It was originally submitted 1/11/91 20 and it did suggest that vehicle protections be immediately put into place, increase the number of 21 attackers that should be protected against, also 22 23 increase the weaponry employed by those adversaries 24 and, in addition, ask for an immediate remedy in the 25 form of an action to put the contingency plans that

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are required by the generic letter in place 1 2 immediately. 3 Both the action plan and the petition was subsequently denied. The action was denied in the 4 5 same month of January and the petition later in June of that year. 6 Further, recently, the FBI and the DOE and 7 8 the CIA have met with the Commission and provided 9 relative information. Again, it's not possible to go 10 into that, but we will look into it in greater depth 11 in the meeting to follow. 12 Also, the recently held Lieberman hearing. 13 Basically, Mr. Lieberman, Senator Lieberman suggested 14 that the Commission move as fast as possible on this 15 issue. 16 Also in response to the Commission 17 direction, the staff has forwarded up a multi-phased 18 work place, promising to give a fresh look at the 19 complete design basis threat, including soliciting 20 public opinion. As I've said earlier, current plans 21 are to get back to the Commission as soon as possible 22 after that public meeting. 23 (Slide) Next slide, 3, please. Turning now to past deliberations, 24 25 alternatives were developed in SECY-88-127 based on NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1323 RHODE ISLAND AVENUE, N.W.

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staff analysis and interaction with the intelligence community. Basically that paper presented three options for contingency planning and three options for physical security. I'd like to cover first the contingency planning.

6 The first alternative was for the NRC itself to complete and develop a contingency plan in 7 the event that information was received that a 8 9 licensed facility was targeted by a vehicle or a 10 vehicle bomb. Basically we were asked to do 11 prethinking and get all documentation prepared that 12 would be necessary to order the licensee to respond. 13 The second alternative, which we labeled 14 short-term contingency planning, required the licensee 15 to review his sites for land vehicle approaches and 16 device a contingency plan to intercept a would be 17 design basis vehicle. This contingency plan had to be 18 operational within 12 hours of notification by the 19 NRC.

The third alternative, long-range contingency planning, would require the licensee to go through all of the necessary designs to install a permanent vehicle protection system, but not install it. In essence, get ahead of the power curve. In all cases, adequate standoff distances would be required

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for a design basis vehicle that would be yet developed.

3	Now, turning to the physical security
4	alternatives. The licensee in alternative 1 would
5	install a vehicle protection roadway system only.
6	Alternative 2, he would extend the vehicle protection
7	system all the way around the perimeter. Both of
8	those cases would be required to protect against a
9	design basis vehicle. The third alternative would do
10	all of the above except would assume the presence of
11	a design basis explosive on the vehicle. Therefore,
12	added standoff ranges, where necessary, would have to
13	be provided. The design basis vehicle and the
14	explosive was considered safeguard information and
15	would be provided under separate cover.
16	(Slide) Next slide, please.
17	During the 1985 through 1988 time period,
18	the Commission met with the CIA, the FBI, the DOE and
19	the National Security Council. In particular, the
20	National Security Council was solicited for their view
21	of the status or the existence of a vehicular design,
22	a vehicular threat or vehicular bomb threat in
23	America. The Agency views and resulting data will be
24	briefed in the follow-on meeting and are considered
25	classified. However, I can note at this point that

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1	during the Lieberman hearings recently held, that the
2	FBI said that they knew of no credible threat directed
3	towards the nuclear community.
4	(Slide) Next slide, please.
5	After the Commission received several
6	staff papers and briefings and data from the
7	intelligence community, the Commission issued their
8	staff requirements memorandum in June, on June the
9	16th, 1988. It directed the staff to develop the
10	Headquarters contingency plan previously briefed, and
11	to require the licensee to develop contingency plans
12	to protect against the design basis vehicle alone. No
13	explosives were to be presumed aboard.
14	The staff issued Generic Letter 89-07,
15	April 28th, 1989 requiring lucensees to create a
16	contingency plan within six months. That plan would
17	be available on-site for review by NRC inspectors.
18	Indeed, the specifications of the design basis vehicle
19	was provided under safeguarded information, separate
20	cover.
21	COMMISSIONER REMICK: Bob, before leaving
22	that slide, what classes of our licensees have some
23	form of contingency plan, not only for vehicles but
24	requirement of having security contingency plan or
25	safeguards?
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MR. BURNETT: Okay. Both reactors and 1 2 category 1 plants have contingency plans. Contingency plans, however, come in two major colors, should I say, the vehicular denial system, which is at the 4 power reactors, and at category 1. In addition, both 5 6 of those facilities have what I call safeguards 7 contingency plans to address such things as hoax bomb threats when they're received, standoff firing 8 9 attacks, fires that could start on-site that you would 10 have to move, in the case of a category 1 site, people 11 into a holding pen area to make sure we didn't lose 12 special nuclear material. And, in fact, all forms of 13 contingencies, if a weapon was discovered on site, if 14 a weapon was discovered on a person, almost every form 15 of contingency you can think of. 16 COMMISSIONER REMICK: When you say 17 reactors, you mean power reactors only? MR. BURNETT: Yes, power reactors only. 18 19 COMMISSIONER REMICK: Don't non-power 20 reactors also have contingency plans of some type, not 21 talking about vehicular? 22 MR. BURNETT: I'll yield to Mr. Frank Miraglia on that one. 23 24 MR. MIRAGLIA: I don't believe that they 25 have security contingency plans. The requirements are NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1323 RHODE ISLAND AVENUE, N.W. WASHINGTON, D.C. 20005

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established in Part 73 of the regulations and I think it's an Appendix E or Annex E to that that talks to the general outline of a requirement contingency plan. As Mr. Burnett said, it establishes planning criteria to respond to a whole range of contingencies, from bomb hoax to degraded security features to say what steps would be taken and how would they be implemented under those various contingencies.

COMMISSIONER REMICK: What level of staff 9 10 review have contingency plans received? I'm referring 11 mostly to reactors now. Have all of the contingency 12 plans been subject to staff review and to what extent? 13 MR. MIRAGLIA: To use Bob's phrase, they come in different colors. The broad requirement for 14 15 contingency planning that was required under Part 73 16 was reviewed in the licensing context for Part 73, did they have contingency plans and what contingencies 17 18 would be covered. Those were reviewed in the 19 licensing context and then they would be reviewed by 20 inspection and the like.

The generic letter expanded the contingency plan to say that there should be contingency planning for protection against surface vehicle bombs that could be implemented in 12 hours. Those contingency plans in that generic letter said

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1 that that did not require it to be submitted to 2 Headquarters for review in a licensing context and 3 should be made available in the field and would be 4 looked at in the inspection process. We have examined 5 that on at least two occasions via the resident 6 inspectors and reasonable base inspectors. 7 COMMISSIONER REMICK: Two occasions 8 meaning two different times ---MR. MIRAGLIA: Two different times. G 10 COMMISSIONER REMICK: -- or two different 11 plants? 12 MR. MIRAGLIA: Two different times at the facilities. I believe shortly after the 13 14 implementation date, the effective implementation date 15 of the regulations there was some looking. I think we 16 did something at the Persian Gulf time and there's 17 just recently, after the World Trade Center, we had 18 licensees and resident inspectors to look down. 19 I think I should emphasize that these 20 plants have never been exercised, so we have not 21 inspected them from the point of view of total effectiveness. But, number one, were there plans in 22 23 place, were there vehicles or appropriate instruments 24 by which they could get vehicles or if they had said 25 that they were going to have ditches or whatever the

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things are, that those things were there and they 1 appeared to be implemented in the 12 hour time frame. 2 COMMISSIONER ROGERS: Excuse me. Do we 3 actually go and look to see or do we get letters from 4 people telling us they had these? 5 MR. MIRAGLIA: The inspectors looked at 6 the plans and verified to what they could. I wouldn't 7 go as far, Mr. Rogers, to say that they looked at the 8 -- if there was a letter and agreement to say where 9 they would get vehicles if vehicles were going to be 10 11 used to provide a standoff distance, whether those contracts -- there was documents to say that that was 12 in their plan and there was letters of agreement. 13 Whether they could actually pull those number of 14 vehicles in at a time, we didn't check that kind of a 15 16 factor. So, it was that type of review. COMMISSIONER REMICK: Frank, when you say 17 18 that they were never exercised, am I correct that you're talking about for vehicle threat? Have 19 contingency plans in general --20 21 MR. MIRAGLIA: Yes. COMMISSIONER REMICK: --22 ever been exercised or activated? 23 MR. MIRAGLIA: In the normal safeguards 24 program, they are required to conduct contingency 25 NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS 1323 RHODE ISLAND AVENUE, N.W. WASHINGTON, D.C. 20005

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1	drills and exams.
2	CHAIRMAN SELIN: Are they contingencies or
3	are those just regular security plans?
4	MR. MIRAGLIA: They exercise the
5	contingency plan. They would presume a fire or they
6	would presume a protected area intrusion and the
7	guards would
8	CHAIRMAN SELIN: The reason I'm drawing
9	the difference is that the protection against
10	vehicular threat is not
11	MR. MIRAGLIA: That's correct.
12	CHAIRMAN SELIN: I mean first you have to
13	say, "Assume that we give you warning," and then in
14	the case of that warning, wherein as in the other
15	cases they're supposed to be able to do that from a
16	standing start.
17	MR. MIRAGLIA: You're absolutely correct,
18	Mr. Chairman. I was addressing Commissioner Remick's
19	concern. We're talking about contingency plans of two
20	different colors. I'm not talking about the vehicle
21	contingency plan, I'm talking about the contingency
22	plans that are developed in concern with Part 73 that
23	said there should be contingency planning for certain
24	security events, those that would be consistent with
25	the existing design basis threat other than the
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vehicle threats. Those contingency plans are
exercised.

COMMISSIONER REMICK: Have they ever been activated for cause? I mean either by us or by licensees other than an exercise, have there been any --

7 MR. MIRAGLIA: You're talking of either 8 type?

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COMMISSIONER REMICK: Any type, yes.

MR. MIRAGLIA: To the best of my 10 knowledge, I don't believe the vehicle ones have been 11 in place in toto. I believe that during the Persian 12 Gulf crisis some licensees elected as a matter of 13 14 prudence to implement at least parts of those plans. To the other licensees, there may have been some 15 16 instances under bomb threats and these kind of things where they have exercised those parts of the plan. 17 18 That's the best answer I can give you. We can give you a more definitive answer --19

20 MR. BURNETT: Contingency plans address so 21 many different contingencies. The lower level 22 contingencies are being not really exercised, but 23 being reacted to more often than you might think. If 24 you look at the incidents that we report where 25 somebody accidently came through the detectors with a

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weapon because he had come from a shooting rand they have a contingency on how to deal with that at know that that's happening all the time. You know that there are fires that have happened, so they have used their contingency plan there. You've heard of people having medical demands on site. So, there are always different levels of a contingency plan.

8 COMMISSIONER REMICK: Thank you. You made 9 the point I was trying to make, is that there's 10 nothing new about contingency plans or are they unique 11 to vehicle threats? It's a part of our safeguards and 12 security apparatus in Part 73, right? It was not 13 specifically designed to answer vehicle threats, it's 14 to handle all kind of contingencies at facilities.

15 I would like you to check because my 16 memory tells me that at least some non-power reactors 17 at least one time had to develop contingency plans. 18 Maybe I'm getting old, but I would appreciate it if at 19 a later date you let me know if I'm incorrect on that. MR. MIRAGLIA: We can do that. 20 CHAIRMAN SELIN: Commissioner Curtiss? 21 22 COMMISSIONER CURTISS: Yes. Do you have 23 any more, Forrest?

24COMMISSIONER REMICK: No.25COMMISSIONER CURTISS: At the risk of

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sounding legalistic, let me turn back to the subject
of the backfit issue because the question has come up,
as I look at the history, at every juncture when we've
looked at what the options are in this area, beginning
in 1986.

6 The SECY paper, Bob, that you're referring to now, the 1988 SECY paper which led to the decision 7 to require contingency plans discusses in some terse 8 detail, I guess, the backfit guestion and in 9 particular expressed the staff's view at the time that 10 the contingency plan options, both short-term and 11 long-term, as well as the two options that you laid 12 13 out there, two additional options, each of which would 14 have led to a modification of the design basis threat, and I'll read here, "May present difficulties in 15 justifying backfitting. Based upon staff opinion, 16 17 change to the regulatory base is unwarranted because no change to the threat environment has occurred. 18 19 Under these circumstances, it may be difficult to satisfy the substantial additional safety requirements 20 for the regulatory analysis portion of a backfit 21 analysis." 22

Now, from the standpoint of the relevant regulatory provisions, 50.109, we've essentially got today the very same -- in fact, we do have the

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identical backfitting framework that we had back in 1988 and that led the staff to this conclusion. I have two questions here. One is more of a historical one.

5 When we have modified the design basis threat, or if we were to modify the design basis 6 7 threat to account for some form of action, does that 8 action itself mean that the steps that have to be taken to respond to that threat are themselves 9 10 adequate protection measures? That is to say they 11 need not be justified based upon the backfit. That's 12 the first question.

13 The second question is do I -- should I 14 infer from this paragraph, and in particular the 15 language that says, "Based upon staff opinion, change 16 to the regulatory base is unwarranted because no 17 change to the threat environment has occurred," that 18 if a change in the threat environment has occurred, in 19 this case perhaps TMI and the World Trade Center 20 together, that that fact is relevant from the 21 standpoint of the backfit analysis, and if so, how? 22 Does it mean that the potential benefits that would accrue from protecting against that threat would be 23 significant? Does it mean that it's an adequate 24 25 protection issue? How should I view the application

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of the backfit provision in this context and what 1 you've said to date on this issue? 2 MR. TAYLOR: We may have to answer that 3 when we actually come forward with recommendations. 4 I don't know that we -- are you prepared to answer 5 6 that today? 7 MR. BURNETT: Only partially. We have started thinking about the issue, Mr. Commissioner. 8 9 If we modify the design basis threat under prudence, 10 in other words we're seeing a trend in this country 11 and therefore it would be prudent to do that, then 12 it's very hard for us then to say that it's not 13 subject to backfit. That's one of the statements that 14 I've received from the lawyers in preparing for really 15 the final determination that we have to present after 16 the open meeting. 17

COMMISSIONER CURTISS: Can I expand on that? Historically we've taken what appear to be two kinds of actions. We have taken some steps that we believe would be prudent to take even though the design basis threat itself need not be modified. That was the gist of the contingency plans that the Commission approved in 1988. In that context, I think one might argue that a cost benefit justification ought to be applied there. You're not changing the

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design basis threat, you are not perhaps therefore arguing that it's necessary to protect the public health and safety. But we have taken that kind of action.

5 The other kind that comes to mind is a 6 change to the design basis threat itself. There the 7 question that I have, and I 11 be as clear as I can, when we modify the design basis threat, are the 8 9 actions that a licensee has to take as a result of 10 that action on our part actions necessary to protect 11 the public health and safety and hence ones that can 12 be taken irrespective of cost? It's important because, as you point out in your SECY paper, 13 14 depending upon how we come out on the standoff 15 distances, the costs may be much more substantial than 16 simply putting in an aircraft cable or delta barriers 17 or what have you, and depending, of course, on the 18 recommendation that is taken. So, if you're prepared 19 to speak to it now, I'd be interested in your 20 response. If you'd like to reflect on that more 21 carefully, I'd like to hear your response at some 22 point.

23 MR. TAYLOR: I think we'd prefer it. 24 MR. MIRAGLIA: One reason for that is the 25 original Part 73 I think preceded some of the backfit

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considerations. I think we need to go back and look at that.

CHAIRMAN SELIN: When you're looking at 3 that, if I may add something to that, Commissioner? 4 COMMISSIONER CURTISS: Yes, go ahead. 5 CHAIRMAN SELIN: By definition, a design 6 basis threat is not intelligence. It may be affected 7 by intelligence, et cetera, as the Commission said in 8 its testimony, the testimony I gave that the 9 Commission went through. We take a look at 10 intelligence, we take a look at a range of threats, we 11 take a look at the costs to counter them. So, it's 12 13 not a linear process where one set of people get 14 together and say, "What is the threat?" and then another set of people say, "How can we best respond to 15 it?" There is a back and forth here. So, this is a 16 much trickier question than the normal one you get 17 into about how likely is it a pressure vessel will 18 19 fail under certain kinds of pieces. So, it's a very, very important question. I don't think I know the 20 21 answer and I don't think it's an easy answer to come 22 up with. MR. TAYLOR: We'll try to be prepared. 23

CHAIRMAN SELIN: Fine.

MR. BURNETT: (Slide) All right. I was

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on slide 6.

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2	The Commission directed in their March 1
3	direction to staff that we take into account any
4	deficiencies or lessons learned or articulated by the
5	incident investigation team looking into the Three
6	Mile Island incident. The findings that do concern
7	the design basis threat are: one, vehicles are not
8	currently addressed in the design basis threat, and
9	specifically what should the licensee response be to
10	a vehicle intrusion? That was one of their findings.
11	A second finding was licensee response can be
12	significantly affected by the mode of transport
13	utilized by the adversary. We are integrating their
14	findings into our analysis, just to let you know that
15	we are doing that.
16	(Slide) Slide 7.
17	This particular slide was created
18	hopefully to pass on as much information as we could
19	about the Trade Center bombing. However, as I've
20	said, the gag order is in effect and it does address
21	and does affect all federal agencies. So, I'm sort of
22	hung up there. But the motivation of the adversaries
23	is still unknown, nor do we know the exact composition
24 -	of the explosive.
25	(Slide) Next slide, please, slide 8.
12:00	

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I would like to get into the current 1 options that the staff have under consideration and 2 have it included in the staff paper that supports this 3 meeting. I would also like to remind you that the 4 current contingency planning that exists at all the 5 6 reactors does use a design basis vehicle, and we will brief more detailed on what that vehicle is. Just 7 keep in mind that all of the contingency planning is 8 premised on the fact that we have advanced information 9 10 of pending attack.

11 CHAIRMAN SELIN: Mr. Burnett, would you go 12 back to the previous chart for a moment, please? 13 Let's see if we can get the screen to go back to the 14 previous chart also.

When you say 500 to 1500 pounds of explosive, that's sort of straightforward, nitroglycerine type --

MR. BURNETT: Well, that's what I said. The exact composition is not known and if I refer strictly to media reports, I have heard it go from everywhere to a mixed composition, which would be dynamites and high explosives, including ANFO, but I do not know --

24 CHAIRMAN SELIN: But it's stuff you could 25 pick up at a construction site? We're not talking

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1	about Semex or some sophisticated as far as the
2	media are concerned, et cetera?
3	MR. BURNETT: I wish I could tell you.
4	We're not. I don't know. I literally have not been
5	privy to the information.
6	CHAIRMAN SELIN: I'm not that concerned
7	with what happened at Three Mile Island I mean at
8	the World Trade Center. I am concerned in the design
9	basis whether we end up talking about stuff that's
10	readily available or some of the much more
11	sophisticated explosives that have been found with
12	terrorists later on.
13	MR. BURNETT: When we talk about
14	explosives in the design basis, we will talk in
15	equivalent terms of TNT.
16	CHAIRMAN SELIN: Okay.
17	MR. BURNETT: So, we will make that
18	transition during the process.
19	CHAIRMAN SELIN: Thank you.
20	MR. BERNERO: And we can give you some
21	equivalences of these lesser or better high explosives
22	to relate to that.
23	MR. BURNETT: Okay. The first option that
24	I would like to address, of course, is the edge of the
25	envelope and that is no change. There are some people
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that could argue that that is applicable because intelligence sources still have not reported any targeting of nuclear facility, and the official words used by the FBI is that the chance of nuclear terrorism is low. Okay? However, on the con side, there has been now the intrusion in TMI and the incident at the World Trade Center and in neither did we receive any advanced warning. So, we certainly are acknowledging that.

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As for the cost, I would like to say it's 10 not specifically addressed on this slide, but the cost 11 of implementing the contingency plans that now exist 12 when they say, "Let's do it." It cost them something 13 14 between \$25,000.00 and \$150,000.00 to create the documents and the necessary systems and it's estimated 15 that to put it into action will cost \$4,000.00 a day. 16 (Slide) Next slide, please, slide 9. 17 CHAIRMAN SELIN: I'm sorry. Just one 18 19 other question. If the contingency plan, in this case it's really based on some intelligence --20 MR. BURNETT: Yes. 21 CHAIRMAN SELIN: -- as opposed to an event 22

23 that happens on the plant, the contingency plan is 24 implemented, kept up for say two months just to be 25 arbitrary. At the end of that time, is there any

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deleterious effect on the security of the plant? In 1 other words, having implemented the plant and then 2 coming back from it, obviously there are operational 3 problems while the plant is implemented. But at the 4 end of the two months, does the licensee ability to 5 then react to a second contingency, is that negatively 6 effected or would these things be contingencies such 7 that once they've been done, other than the cost and 8 the inconvenience of having done them --9 MR. BURNETT: Hopefully he could call on 10 them a second time. 11 CHAIRMAN SELIN: Yes, that's what I was 12 trying to say. Thank you. 13 MR. BURNETT: Do keep in mind that 14 15 sometimes they are staff intensive. Guard forces do get burned out. They may have to bring in second 16 sources of guards and implement that way. But it's my 17 understanding that they could implement it a second 18 time. 19 20 Slide 9. The second option, which is roadway 21 protection only, that again was one mentioned in 1988. 22 In this case, however, we've extended it slightly to 23 give some protection on either side of the roadway so 24 that a car could not easily circumvent the gate. If 25

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the vehicle did get captured or engaged a roadway protection system, keep in mind that some explosive protection would result being caught at that position rather than being able to penetrate and nestle into some vital equipment. Of course the remainder of the perimeter would still be vulnerable and if an adversary did a reconnaissance of his targets, he could certainly see the most vulnerable portions of the perimeter.

Option 3 ---

COMMISSIONER de PLANQUE: Before you go on to that, I'd like to understard how you would implement this in a practical situation. For example, at a shift change. If the barrier is not raised and lowered for every vehicle entering, then how would you protect against the TMI type intrusion?

MR. BURNETT: There are many ways to put in a vehicle denial system. There is a possible utilization of double barriers where the cars go through one, one remains up and then it Xs out the second one.

22 COMMISSIONER de PLANQUE: The air lock 23 equivalent, yes.

24 MR. BURNETT: Yes. Okay. So, that would 25 counter what you just said there.

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1	COMMISSIONER de PLANQUE: Except it would
2	also be a rather tedious process.
3	MR. BURNETT: It would add time and tedium
4	to the process.
5	MR. MIRAGLIA: Or they can remove it to a
6	vehicle control access further out. In other words,
7	move the vehicle access
8	COMMISSIONER de PLANQUE: Providing
9	MR. BURNETT: Away from the protected
10	area.
11	MR. MIRAGLIA: Away from the protected
12	area.
13	COMMISSIONER de PLANQUE: But you would
14	only see it as being effective either that way or
15	in that way against a TMI type intrusion?
16	MR. BURNETT: Yes, because if there was a
17	spacing in your exiting vehicles, then obviously
18	somebody could exploit that spacing. Generally we
19	discourage vehicles coming into the protected area
20	except for those that are doing maintenance type work.
21	The parking lots generally, in fact in all cases, are
22	outside of the protected areas. So, during shift
23	changes, you really don't get that much of these gates
24	being opened and closed.
25	COMMISSIONER de PLANQUE: Is that true for
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every plant?

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2	MR. MIRAGLIA: We're talking about go
3	back to the TMI analogy. It was the second gate. The
4	first gate is owner controlled property and was not
5	the protected area. This would be defending the
6	protected area perimeter with those kinds of gates.
7	There's not a large number. It's usually the egress
8	of personnel to the parking lot and then out.
9	MR. BURNETT: And I'm not aware of any
10	large scale parking that is within the protected area
11	boundaries.
12	MR. MIRAGLIA: Most security plans have
13	vehicle control. Only certain vehicles can get access
14	to within the protected area. They, in most cases,
15	they only be driven by certain authorized people.
16	MR. BURNETT: Absolutely.
17	MR. MIRAGLIA: So, it's that access that's
18	being talked about here.
19	MR. BERNERO: I think the Commissioner may
20	be thinking that if you did adopt this roadway
21	protection option at a site like TMI, you would be
22	drawn toward the bridges as the most effective place
23	to put them and then that would give you the problem
24	of shift change.
25	COMMISSIONER de PLANQUE: Right.

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1	MR. BERNERO: But in general, this kind of
2	barrier would be for the protected area, not for the
3	owner controlled area, for the very reason of that
4	shift change burden.
5	MR. BURNETT: And the recommendation would
6	actually be at the existing protected area barrier,
7	not in the case of TMI out at that bridge that's
8	three-quarters of a mile
9	CHAIRMAN SELIN: It just happens that
10	they're not putting their protection at the bridge,
11	they're putting their protection at the
12	MR. BURNETI: That's correct.
13	MR. BERNERO: Protected area.
14	CHAIRMAN SELIN: They have seven egress
15	points instead of the two bridges that lead to the
16	island.
17	MR. BURNETT: Yes, sir.
18	COMMISSIONER de PLANQUE: Okay.
19	MR. BURNETT: Let's see. I was on
20	okay, I was on option 3. In this option, the complete
21	perimeter would be protected, thereby negating the
22	advantages of doing reconnaissance by the attackers
23	and hitting the weak point. They would be required to
24	protect the entire perimeter against a design basis
25	vehicle. Again, some explosive protection would

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1	result, but it would result in a varying degree of
2	protection and very unique on a site basis. Some
3	sites have vital equipments located relatively close
4	to the protected area and I will talk more
5	specifically about that in the classified section, and
6	that even engagement of the truck at that existing PA
7	could endanger those vital equipments. While others,
8	the vital areas are much more internally located and
9	you might get a high level of protection even at the
10	existing fence lines. So, it is a variable.
11	In this case, call your attention to the
12	fact that in addition to the costs show for larger
13	perimeters, more access points, staff estimates could
14	go as high as \$.3 million.
15	CHAIRMAN SELIN: Could you stop for a
16	second?
17	MR. BURNETT: Yes, sir.
18	CHAIRMAN SELIN: I have to tell you I'm
19	really struck by how low the estimates are to carry
20	out these options. Do we have a way of have we
21	communicated with the licensees in doing this already
22	or do we have a way to test these against reality or
23	are they sort of so much per linear foot and so much
24	per barrier?
25	MR. MIRAGLIA: Most of the cost estimates
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1	are based upon vendor supplied information and then we
2	have had we did talk with TMI in trying to get a
3	feel for the cost estimates that they have generated
4	for their fixes and what was involved in those kinds
5	of activities. So, I think the public meeting
6	CHAIRMAN SELIN: Will we smoke these out
7	there because it would be very unfortunate if we made
8	a set of decisions and then found that there's an
9	order of magnitude difference with the
10	MR. MIRAGLIA: We've tried to look at
11	that. As Mr. Burnett just said, there's a range.
12	We've tried to give you averages. The sites are very,
13	very different. The site perimeters go from 1,000
14	feet to 9,000 or 10,000 feet. Various number of
15	access gates. It's a very variable. We try to come
16	up with some kind of a median estimate and then
17	there's
18	CHAIRMAN SELIN: I'm not questioning the
19	way the estimate was done.
20	MR. TAYLOR: No, we hope to get input on
21	this.
22	CHAIRMAN SELIN: The question is can we
23	get some corroboration from the licensees.
24	MR. MIRAGLIA: Yes, sir. I think that
25	would be one of the things we would focus on on the
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1	public meeting, is to try to get comments and
2	realistic estimates.
3	COMMISSIONER ROGERS: And really try to
4	find the extremes, really clearly the most expensive
5	and clearly the least.
6	MR. MIRAGLIA: Yes, sir.
7	COMMISSIONER CURTISS: Now, in that
8	regard, I'm looking for it in your paper, but
9	somewhere in your paper you note that you've detected
10	already an increased demand for
11	MR. BURNETT: Yes, sir. It could affect
12	availability.
13	MR. MIRAGLIA: Yes, sir. It's been noted
14	because we tried to make some estimates of how long
15	would it take and we got the response back depending
16	on availability and the demand is high right now.
17	COMMISSIONER CURTISS: There are really
18	two points here. One, as you point out in the paper,
19	it affects the schedule, the pace with which, if that
20	option is pursued, the licensee can move forward.
21	To the Chairman's point, when you get to
22	the meeting it may well be that you have some real
23	life experience with people who are now engaged in
24	procuring this kind of equipment.
25	MR. BURNETT: Yes, sir. Okay, sir.
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(Slide) Moving to slide 11, option 4 1 2 would require the licensee to protect against a design basis vehicle and a design basis explosive. The big advantage of this option, it would make all sites 4 5 consistent in their level of protection to both vehicles and explosives. Some sites we believe would 6 be able to provide this protection at their existing 7 protected area fences while others would have to 8 9 modify their protected area of fence line. This could 10 be done in two methods: one, actually moving the fence 11 line and the vehicle protection systems out to the 12 correct standoff distances, or leave the current personnel detection fences where they are and just 13 14 kind of put a hump on the outside of the fence with 15 Jersey bounces or some other physical denial technique 16 to engage the vehicle only and not the people. 17 CHAIRMAN SELIN: This one would be truly 18 a performance rule that you'd be talking about. 19 MR. BURNETT: Yes, sir. 20 CHAIRMAN SELIN: As opposed to the others, 21 which are really very much prescriptive rules, do take 22 these steps as opposed to get these results. 23 MR. BURNETT: And of course, this is the 24 most expensive option. 25 MR. MIRAGLIA: And again, going to your NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS

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previous comment, Mr. Chairman, the cost here would be very variable. It would be very site-dependant depending on the analysis and how fine -- and how complete the analysis would be. This could be a very costly one. And again, this is just a best estimate on our part and I think we could perhaps flesh that issue out also during the public meeting.

8 MR. BURNETT: I would add, however, 9 depending on the size of the explosive which then 10 drives the size of the vehicle, this particular option 11 really has a very wide range totally dependant upon 12 those two factors.

COMMISSIONER CURTISS: Let me just refer back to Mr. Leventhal's testimony in 1988, because he addresses this point specifically, and I'll just read the short sentence.

17 "The fencing would have to be at least 100 18 yards away." Now we can pursue the question of whether 100 yards is an appropriate standoff distance 19 20 in the closed session, but he goes on to say, "and 21 that perhaps may be the most troublesome aspect of 22 this from the perspective of the utilities because 23 some plant sites may not be large enough to allow 24 that."

As we get into the follow-on discussion,

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I'd like to pursue the question of what the implications are in terms of the standoff distance, how it's calculated for individual sites and what the implications are for individual sites, but I raise that question now because, as I alluded to earlier, that cost consideration of option number 4 is the one that I think drives that option, if I understand what you've outlined.

9 MR. MIRAGLIA: And there may be some 10 substantial outliers in that regard.

11 MR. BURNETT: That's true. We are 12 prepared, however, to talk about standoff distances 13 versus explosive sizes in the classified meeting.

CHAIRMAN SELIN: That's not really the 14 The question comes, if 95 percent of the 15 issue. 16 plants could easily meet, say, this 100 yard measure and five percent would have to spend \$20 million to do 17 18 it, would we really stick to the 100 yards? Is the differential between 80 yards and 100 enough? Which 19 really gets to the point about how you do design basis 20 threats versus what we mean by these different terms, 21 you know, what needs to be in backfit and what 22 doesn't. 23

24 MR. BURNETT: And we've run preliminary 25 analyses on a few number of sites, like 26, that by

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putting a barrier at the existing fence what effective 1 2 explosive protection would you get, and that's where you're coming from. CHAIRMAN SELIN: But you have the same --4 I mean, you have really two variables and one is the 5 size of the explosive and the second is the standoff 6 distance. 8 MR. BURNETT: Yes, sir. 9 CHAIRMAN SELIN: Even if you get comfortable with the standoff distance, then the next 10 question comes, how large a design basis threat? Now 11 12 10,000 pounds is going to war, so we're probably not going to talk about 10,000 pounds of explosives, but 13 when you're talking between 2,000 and 2,500 you're 14 going to do the same calculations. They're at the 15 16 point of rapidly diminishing return. MR. BURNETT: I think we have some data 17 that we can make available in the closed meeting. 18 CHAIRMAN SELIN: Okay. 19 MR. BURNETT: That's the end of this 20 portion of the briefing. 21 CHAIRMAN SELIN: I believe we need a fifth 22 option and I would like to try to sketch out why I 23 think this. Until there's an SRM there's no 24 requirement for it, but I'd like you to think about 25 NEAL R. GROSS

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what would be involved in this. It's sort of a long discussion. I apologize in advance, but I don't mean it because I'm going to do it anyway. I mean, I feel bad but I'm not --

MR. BURNETT: Not that bad.

CHAIRMAN SELIN: Yes, exactly. We can't 6 7 go to intelligence, we can't go to some particular development in either doctrine in a document we've 8 picked up or in explosives and say, "Here's the threat 9 that everybody has to be defended against." No matter 10 how you do it, we are talking about design basis in 11 the same way that the Commission talked about in its 12 13 testimony before Senator Lieberman's subcommittee, 14 namely take a look at a range of threats and take a 15 look at a range of responses and see what makes sense. Really, although I don't agree with -- I far from 16 agree with everything that Mr. Leventhal said, his 17 basic concept says, "Look, you can do something about 18 this. Why don't you do about it?" is really not very 19 far from a reasonable logic. Different people will 20 come to different conclusions, but how tough is it to 21 fix and how much of a range of things can we fix is a 22 reasonable set of questions. 23

It doesn't fit in very well with our logic that says this is the kind of risk to a power plant

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that everybody has to fix regardless of the cost and here's what we have to do, some tradeoffs. One power plant will turn out it's going to cost them \$300,000.00 and they should do it, another one is at \$500,000.00. Does that mean they shouldn't do it? We're not really set up for the formal process of setting up -- saying, "This must be done and this will depend on the cost with this move continue."

9 So, I would like you to consider another 10 option which is a little different from these, which 11 basically says something like the following. We 12 really are concerned. We'd like the plants to take a look at what it would cost to -- I'll make up some 13 14 numbers -- to handle 2,000 pounds at 100 yards from a 15 vehicle going no faster than 50 miles an hour and use some common sense, taking into account your geography, 16 17 et cetera. We basically ask the plants if they'll do 18 this without going to the point of passing a rule that says you must do this and see what the results are and 19 20 after you get the results and then we go and say, "Do we have to take further action?" 21

Now, that's not exactly what I'm calling for, but my point is that each of the Commissioners one way or another has said there are huge differences from plant to plant. One thing that seems to me that

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is not unreasonable may turn out to be a bad idea. 1 It 2 may turn out it's too hard to do and I'd sort of like your reaction about whether you could do something 3 like this before we do the SRM, not afterwards, 4 because I don't want to ask for something that's 6 impossible. But maybe the status quo ante shouldn't be -- in other words, a situation which would have to 7 be remedied by the rule needn't be what we have today, 8 but could be something where the Commission as a 9 10 matter of policy expressed an interest in having the plants do what they reasonably can do to respond to 11 this, see what the licensees would say they would do 12 13 and then see if we need to go further than that with 14 a rule. This is something where you have to speak 15 very closely to the general counsel and say do we have 16 the authority to do something like this, would this be 17 an undesirable precedent? But, in effect, it would be 18 to bring the licensees in to looking at what the 19 design basis threat should be and what the response 20 should be and give it a chance to see if it turns out 21 that the Commission feels there's a question of 22 policy, there should be some response to a vehicular 23 bomb, and it's a big if, what the licensees could do, 24 what they'd be willing to do without being mandated to do it and see, after we went through that cycle, how 25

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much more we would require in a rule.

2	Now, it may turn out that the Commission
3	doesn't want to do this, but I think you have to look
4	at a wider range of options than just we have these
5	kind of mandates we can put out, because this is
6	really a peculiar situation. It just doesn't fit into
7	the normal pieces, both because it's hard to say, "Is
8	this something everybody must do, or is it a cost
9	benefit analysis?" and also because the situations are
10	just so different.
11	I would almost consider a rule that says
12	every licensee must spend \$300,000.00 to defend
13	against a vehicular let's see what we get for it.
14	I'm exaggerating. I don't mean that literally, but
15	what I'm saying is that
1.6	COMMISSIONER ROGERS: Mr. Parler would be

17 very uncomfortable. You got his attention.

18 CHAIRMAN SELIN: In other words, the resources are central to this. If you can do it 19 20 easily, why don't you do it without forcing us to 21 order you to do it? And if it's really hard, tell us 22 about it and let's see if there's a problem between the two. There may or may not be a way to come up 23 with an option that counts for something like that. 24 We have to live within our own rules. We can't set a 25

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1	whole new legal framework for a situation. But I
2	don't believe that this type of situation was really
3	foreseen when we set up the sharp distinction between
4	this is what's required and this is a cost benefit
5	analysis.
6	MR. TAYLOR: We'll mull on that one, Mr.
7	Chairman. That's about as far as I can go.
8	CHAIRMAN SELIN: Well, I mean we need some
9	interaction. I don't want to
10	MR. TAYLOR: I understand.
11	CHAIRMAN SELIN: But if there is an
12	approach that would be followable
13	MR. TAYLOR: Let us think through that.
14	CHAIRMAN SELIN: I would like to know
15	that before we end up giving you the instructions on
16	how to respond to this piece.
17	Commissioner Rogers?
18	COMMISSIONER ROGERS: Yes. I'd just like
19	to say that I find the Chairman's remarks very
20	interesting and somewhat appealing, but they also
21	bring to mind the other side of that coin and that is
22	one that was pointed out to us I think by the
23	Administrative Conference of Paper, I think it was, on
24	nonprescriptive regulation, the enormous costs that
25	come about when there is too much freedom left in the
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system without enough specificity. I think the 1 question was how high to put a fire extinguisher, you 2 know, and if you leave it to the licensee to decide 3 the proper height of the fire extinguisher to meet all 4 the possible situations, handicapped and various other 5 needs that might have to be addressed, the cost of 6 7 trying to implement that is enormously greater than saying "the fire extinguisher should be a height at 8 9 three and a half feet off the floor," period, just put 10 it there.

11 And I think that that's another aspect of 12 this that one has to take into account, because I can 13 see the difficulties that licensees might have in 14 grappling with these things. "What should we do?" 15 Not "What can we do?" but "What should we do?" And so 16 I think that while I agree that somehow we have to --17 I like the idea that there's yet another way of 18 looking at this than just the options that have been 19 offered to us, because I think there has to be more 20 practicality interjected into this.

I do think at some point we may have to say "This is what you must do," if we can. Now I know there's the legal aspects of that, but I think that somehow we've got -- we can't just dump it back on the licensees. I think we'll have to give guidance in

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1	some way. Now whether it's a legal requirement or
2	not, I don't know. These are things that will have to
3	emerge. But I do think it is important to keep in
4	mind that when too much freedom is left, that that's
5	also a very difficult situation to deal with. It
6	doesn't necessarily simplify it for the licensee.
7	CHAIRMAN SELIN: Do you have other points
8	you want to
9	COMMISSIONER ROGERS: No.
10	CHAIRMAN SELIN: Commissioner Curtiss?
11	You're not struck dumb by all this?
12	COMMISSIONER CURTISS: Well, I'm struck.
13	I'm not sure I'm struck dumb.
14	CHAIRMAN SELIN: Speechless.
15	COMMISSIONER CURTISS: Speechless.
16	CHAIRMAN SELIN: Commissioner Remick?
17	COMMISSIONER REMICK: Just a couple
18	questions. What do we know about what other countries
19	are doing from the vehicle threat standpoint?
20	MR. BURNETT: I have some general data my
21	staff was putting together knowing this question was
22	coming, but I can also start. For instance, some
23	countries, in particular the U.K yes, that's
2-0	right. Be careful with classified, he just warned me.
25	COMMISSIONER REMICK: You can provide it
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1	later.
2	MR. BURNETT: Can I better discuss this in
3	the classified section?
4	COMMISSIONER REMICK: Or provide it later,
5	that's fine. Just curious.
6	MR. TAYLOR: I think we better.
7	COMMISSIONER REMICK: Has the staff as of
8	this afternoon decided that public health and safety
9	is not being adequately protected from the v hicle as
10	a result of not
11	MR. TAYLOR: We're not ready
12	COMMISSIONER REMICK: You're not prepared
13	to yet.
14	MR. TAYLOR: to answer that today.
15	COMMISSIONER REMICK: I'm thinking about
16	what was requested of us by Mr. Leventhal.
17	The other thing, if the Commission should
18	decide to require permanent vehicle barriers I'm
19	looking at the General Counsel at the moment and if
20	I read 50.13 as a Philadelphia lat a low do I
21	reconcile the wording there?
22	MR. PARLER: Well, you would have to go to
23	the background of 50.13 and not just stop with the
24	wording itself. Obviously there would have to .
25	reconciliation, at least in my judgment, some 'ace,
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82 1 either in the rule that may come out of this subject, 2 this discussion, the follow-up meetings, et cetera. That would probably be the way to do it. 3 If you look at the background of 50.13, it 4 was the result of an issue that was raised in the '60s 5 6 in the Turkey Point proceeding by a lawyer that used 7 to work with us that went down to Florida to practice 8 law, and the focus there was on attacks from enemies 9 of the United States, specifically in that case 10 because of the situation in Cuba. If you forget about 11 that background and just look at the words themselves 12 in the regulation -- it talks about design features. 13 et cetera, et cetera -- there would be perhaps some 14 lack of clarity at least on the part of those that are 15 not familiar with the origins of the 50.13. 16 So there should be, to repeat, some 17 putting of the 50.13 in perspective in whatever change, if any, might come out of this exercise. 18 19 COMMISSIONER REMICK: Would that include possibly needing to revise 50.13? 20 21 MR. PARLEA. wouldn't think so. COMMISSIONER REMICK: You would not think 22 23 so? 24 MR. PARLER: No, sir. 25 COMMISSIONER REMICK: Okay. Thank you. NEAL R. GROSS COURT REPORTERS AND TRANSCRIBERS

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1	CHAIRMAN SELIN: Anything else?
2	COMMISSIONER REMICK: No, thank you.
3	CHAIRMAN SELIN: Commissioner de Planque?
4	COMMISSIONER de PLANQUE: No.
5	CHAIRMAN SELIN: Did you care to say
6	anything else before we go to the closed session?
7	MR. TAYLOR: We have nothing else.
8	CHAIRMAN SELIN: Fine. Why don't we take
9	a short break in which the room will be cleared?
10	(Whereupon, at 4:15 p.m., the above-
11	entitled matter was concluded.)
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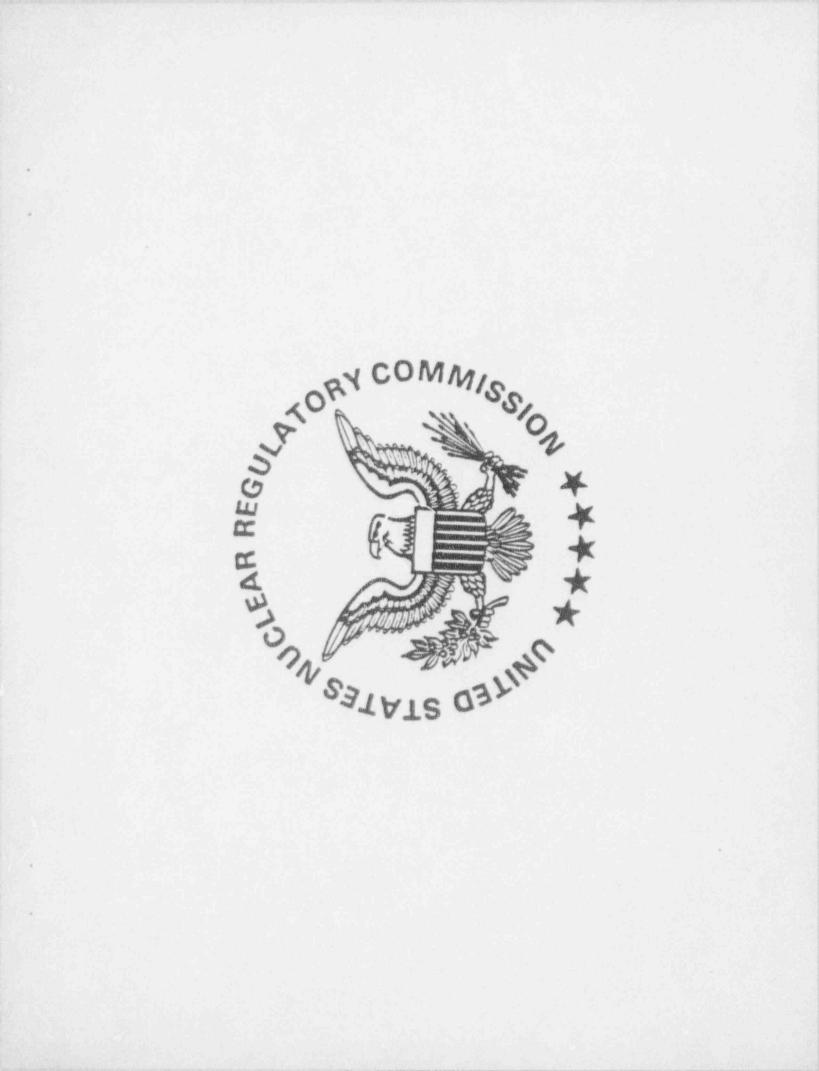
This is to certify that the attached events of a meeting of the United States Nuclear Regulatory Commission entitled: TITLE OF MEETING: BRIEFING ON DESIGN BASIS THREAT REEVALUATION PLACE OF MEETING: ROCKVILLE, MARYLAND DATE OF MEETING: APRIL 22, 1993

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OPEN COMMISSION MEETING - APRIL 22, 1992

VEHICLE THREATS

- O BACKGROUND OF CURRENT ACTIVITIES
- O PAST COMMISSION DELIBERATIONS
- O CURRENT OPTIONS FOR CONSIDERATION
- O STAFF CONCLUSION

BACKGROUND

- O Current Reconsideration Reflects Concerns Raised by TMI Intrusion and World Trade Center Bombing
- O Nuclear Control Institute Request to Reopen Petition for Rulemaking and Request for Action, February 19, 1993
- O Commission Meeting, March 5, 1993, Included Presentations by CIA and FBI
- O Senate Hearing on Nuclear Power Plant Security, March 19, 1993
- O Staff Two Phase Plan to Revisit Design Basis Threat
 - Phase 1 Revisit 1985 through 1988 Commission Deliberation
 - Phase 2 Multimonth effort to examine design basis threat

PAST COMMISSION DELIBERATION - THE OPTIONS

- O SECY-88-127, dated May 10, 1988, provides finalized list of six options
- O Contingency Planning (3 options)
 - NRC HQ Contingency Plan
 - Licensee Short-Range Contingency Planning
 - Licensee Long-Range Contingency Planning

- O Physical Security Measures (3 options)
 - Roadway Access Denial
 - Protected Area Denial
 - Vehicle Bomb Protection

SUMMARY OF ASSESSMENTS AND GUIDANCE

- O Other Agencies Providing Threat-Related Information, Assessments, Participation in Commission Meetings
 - Central Intelligence Agency
 - Federal Bureau of Investigation
 - Department of Energy
- O Guidance Solicited from NSC (DOD, DOE)

1988 DECISION

- O Commission De sion
 - Generic NRC HQ contingency plan for use in event vehicle bomb threat arises
 - Licensee short-range contingency plan
- O Staff Issues Generic Letter 89-07, "Power Reactor Safeguards Contingency Planning for Surface Vehicle Bombs," dated April 28, 1989
- O Staff Specifies A Conservative Design Basis Vehicle (SGI) for Planning Purposes

BACKDROP FOR CURRENT LIST OF OPTIONS

O Intrusion at Three Mile Island, February 7, 1993

Incident Investigation Team Findings

1. Performance objectives of 10 CFR Part 73 for establishing and maintaining a physical protection system do not effectively address the use of a vehicle for entering the protected area.

2. Method of entry into the protected area significantly affected the security program response strategy toward protecting the vital areas and protecting against radiological sabotage.

BACKDROP FOR CURRENT LIST OF OPTIONS - continued

O World Trade Center Bombing, February 26, 1993

Tentative Information

1. Initial media reports indicate a van, loaded with between 500 and 1,500 pounds of explosive, was used in the attack in a public parking garage under the Vista hotel.

2. Motivation unknown.

CURRENT OPTIONS FOR CONSIDERATION

O OPTION 1 - No Change

Pro: Procedures established for temporary measures within 12 hours after notification by NRC to establish safe standoff distances. A Safeguards Information addendum characterized a design basis truck bomb.

Available threat-related information suggests that the threat to nuclear facilities is low.

Con: Experience of TMI intrusion into protected areas not addressed.

Relies on advanced warning from the Intelligence Community, but the World Trade Center bombing demonstrated that a threat could materialize in the United States without being detected.

Costs: None

CURRENT OPTIONS FOR CONSIDER ATION - CONTINUED

O OPTION 2 - Road Protection - On existing roadways and some distance on either side of the vehicle control points into protected areas.

Pro: Would protect against a Three Mile Island type intrusion.

Con: Remainder of the protected area perimeter vulnerable.

Cost to Licensee: For four protected area access points with 4 active barriers and 400 feet of concrete barriers, the total initial capital cost would range between \$200,000 and \$300,000. Costs would vary would vary by site.

Cost to NRC: A one-half FTE to conduct licensing reviews and .5 FTE to inspect systems.

9

Schedule: If barriers are available, staff estimates that it would take 6 months for licensees to implement this option.

CURRENT OPTIONS FOR CONSIDERATION - Continued

O OPTION 3 - Protected Area Perimeter Protection - Against vehicular intrusions PA. Varying degrees of protection against a vehicle bomb.

Pro: Enhanced, but varying, degrees of protection against vehicle attempting to rapidly approach vital areas, through the protected area, to cause radiological sabotage.

Con: Protection against a vehicle bomb would be highly site specific and could be low at some sites.

Cost to Licensee: Estimated typical initial capital cost between \$300,000 and \$400,000. Actual costs are site & measure specific.

Cost to NRC: A one-half FTE for licensing reviews and 1 FTE inspect systems.

Schedule: 6 months to implement, if active barriers available.

CURRENT OPTIONS FOR CONSIDERATION - Continued

O OPTION 4 - Vehicle bomb protection derived from within a range of postulated threats - Protection against vehicle intrusions and design basis vehicle and explosive device.

Pro: All licensees would provide at least a known, consistent level of protection against vehicle intrusions and a land-vehicle bomb.

Con: Some sites may require either an additional layer of security and a commitment of additional security officers for the life of the plant or significant modifications to existing protected areas.

Cost to Licensee: Estimated initial capital cost between \$500,000 and \$800,000. Actual costs are site and measure specific.

Cost to NRC: Four FTE to confirm licensee analyses, 1 FTE licensing reviews, and 1.5 FTE inspect systems.

Schedule: Nine months to implement if barriers available.

STAFF CONCLUSION

O That staff recommendation be delayed until after the May 10, 1993, public meeting on the DBT for radiological sabotage to allow for staff consideration of public input.