

1 UNITED STATES DEPARTMENT OF ENERGY

2 POLYGRAPH EXAMINATION REGULATION

3 10 CFR Parts 709, 710 and 711

4 Docket No. CN-RM-99-POLY

5 Proposed Rulemaking

6

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9 Public Hearing

10 Los Alamos National Laboratory

11 Administration Building, Main Auditorium

12 Los Alamos, New Mexico

13

14

15 September 17, 1999

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20 Presiding Official for the Hearing

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21 Emergency Operations, SO-1

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Counsel, GC-73

23 William Hensley, Acting Director,

24 Office of Security Support,

Office of Defense Programs, DP-45

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1 PROCEEDINGS

2 MORNING SESSION (9:00 a.m.)

3 GENERAL HABIGER: Good morning, ladies  
4 and gentlemen, and welcome.

5 I'm General Gene Habiger, Director of  
6 the Office of Security and Emergency Operations.

7 On behalf of the Department of Energy,  
8 and particularly Secretary Richardson, I would like to  
9 thank you for taking the time to participate in this  
10 public hearing concerning the proposed Polygraph  
11 Examination Program.

12 Secretary Richardson has personally  
13 asked me to be here today, to listen carefully to your  
14 comments and concerns, and to report back to him. Let  
15 me assure you that we take this issue, and your  
16 concerns, very, very seriously.

17 The purpose of this hearing is for DOE  
18 to listen to your comments on the Department's Notice  
19 of Proposed Rulemaking.

20 This is a time for us to listen and to  
21 understand your concerns. It is not a forum; I repeat,  
22 it is not a forum to debate the issues. We are here  
23 focused on what you have to say. Your comments are not  
24 only appreciated; they are absolutely essential to this  
25 rulemaking process.

1           The Department of Energy proposes  
2 regulations for the use of polygraph examinations for  
3 certain DOE and contractor employees, applicants for  
4 employment, and other individuals assigned or detailed  
5 to federal positions at DOE.

6           The proposed regulations describe the  
7 categories of individuals who would be eligible for  
8 polygraph testing and controls for the use of such  
9 testing, as well as for the prevention of unwarranted  
10 intrusion into the privacy of individuals.

11           These regulations are being proposed to  
12 comply with various Executive Orders which require the  
13 Department to protect classified information.

14           These regulations for the use of  
15 polygraph examinations for certain DOE and contractor  
16 employees are intended to protect highly sensitive and  
17 classified information and materials to which such  
18 employees have access.

19           This rulemaking also proposes conforming  
20 changes to regulations governing the Department's  
21 Personnel Security Assurance Program, known as PSAP,  
22 and the Personnel Assurance Program, known as PAP.

23           If you have not already read the Federal  
24 Register notice from August 18, 1999, I urge you to do  
25 so. Copies are available at the registration desk in

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1 the front of the auditorium.

2 The comments received here today, and  
3 those submitted during the written-comment period which  
4 ends October 4, will assist the Department in the  
5 rulemaking process.

6 All written comments must be received by  
7 this date to ensure consideration by the Department.

8 The address for sending in comments is:  
9 Douglas Hinckley, United States Department of Energy,  
10 Office of Counterintelligence, CN-1, Docket No.  
11 CN-RM-99-POLY, 1000 Independence Avenue Southwest,  
12 Washington D.C. 20585.

13 In approximately 14 days, a transcript  
14 of this hearing will be available for inspection and  
15 copying at the Department of Energy's Freedom of  
16 Information Reading Room in Washington, D C.

17 The address is specified in the Federal  
18 Register notice, and is also available at the  
19 registration desk.

20 This transcript will also be placed  
21 on DOE's Internet web site, following the address:  
22 [Home.doe.gov/news/fedreg.htm](http://Home.doe.gov/news/fedreg.htm).

23 In addition, anyone wishing to  
24 purchase a copy of the transcript may make their own  
25 arrangements with the reporter, seated on my left.

1           This will not be an judicial or  
2 evidentiary hearing; It will be conducted in accordance  
3 with Section 553 of the Administrative Procedure Act,  
4 5 U.S.C. Section 553, and Section 501 of the DOE  
5 Organization Act, 42 U.S.C. Section 7191.

6           In order to ensure that we get as much  
7 pertinent information and as many views as possible,  
8 and to enable everyone to express their views, we will  
9 use the following procedures:

10           First, speakers will be called to  
11 testify in the order indicated on the agenda.

12           Speakers have been allotted five minutes  
13 to deliver their inputs.

14           Anyone, anyone, may make an  
15 unscheduled statement after all the scheduled  
16 speakers have delivered their statements. To do so,  
17 please submit your name to the registration desk before  
18 the conclusion of the last scheduled speaker.

19           Questions for the speakers will be asked  
20 only by members of the DOE panel conducting this  
21 hearing.

22           We will be in session with this hearing  
23 until 1300 local hours. We'll reconvene at 1500 for  
24 the second session, and we will terminate the second  
25 hearing at 1800 hours local.

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1           As I have said, the purpose of this  
2 hearing is to receive your comments and concerns on  
3 DOE's Notice of Proposed Rulemaking.

4           I urge all speakers to provide us with  
5 your comments, opinions, and pertinent information  
6 about the proposed rule.

7           Please remember that the close  
8 of the comment period is October 4, 1999. All  
9 written comments received will be available for public  
10 inspection at the DOE Freedom of Information Reading  
11 Room in Washington, D.C. The phone number for that  
12 Reading Room is (202)586-3142.

13           If you submit written comments, include  
14 ten copies of your comments. If you have any questions  
15 concerning the submission of written comments, please  
16 see Andi Kasarsky at the registration desk. She can  
17 also be reached at (202)586-3012.

18           Any person submitting information which  
19 he or she believes to be confidential and exempt by law  
20 from public disclosure should submit to the Washington,  
21 D.C. address a total of four copies; one complete copy  
22 with the confidential material included, and three  
23 copies without the confidential information.

24           In accordance with the procedures  
25 established in 10 CFR 1004.11, the Department of Energy



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1 shall make its own determination as to whether or not  
2 the information shall be exempt from public disclosure.

3           We appreciate the time and effort you  
4 have taken in preparing your statements, and are  
5 pleased to receive your comments and opinions.

6           I would now like to introduce the other  
7 members of the panel.

8           Joining us today is Lise Howe, an  
9 attorney with DOE's Office of General Counsel; Lise?

10           And also Bill Hensley, Acting Director  
11 of Office of Security Support with DOE's Office of  
12 Defense Programs.

13           Before we begin to hear your comments,  
14 we thought it would be extremely valuable to provide  
15 you with a short briefing on polygraphs.

16           We are well aware that there is a lot  
17 of confusion and many misconceptions about this issue.  
18 Last week we held in-depth briefings at each of the  
19 labs; This morning's briefing provides some of that  
20 same material.

21           I would like to call first  
22 Dr. Andrew Ryan, Director of Research for the  
23 Department of Defense Polygraph Institute; and  
24 following Andy will be David Renzelman, Polygraph  
25 Program Manager for the Office of Counterintelligence,

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1 Pacific Northwest National Laboratory.

2 Andy, you're up.

3 ANDREW RYAN: Thank you, General; and  
4 thank you for allowing me to speak to you from the  
5 Department of Defense Polygraph Institute.

6 I am here representing the Polygraph  
7 Institute, and will attempt to give you a very brief  
8 overview of the polygraph training program run by the  
9 Department of Defense at Fort Jackson, South Carolina.

10 As a teacher for many number of years,  
11 in the academic setting, I always like to start with  
12 definitions.

13 So, today I'd like to give you a brief  
14 definition of what we call a polygraph: The forensic  
15 science of looking at the relationship of stimulus,  
16 which is a test question, and the response, which is a  
17 physiological response, that we are recording with,  
18 now, computerized instruments, and comparing those  
19 results within the subject to, as you'll hear  
20 throughout, the control-type questions, basically  
21 looking at how the person looks when we know they are  
22 telling the truth, and when we know they are telling  
23 something that is not quite as candid.

24 So we call it the forensic science  
25 supporting intelligence and law enforcement, formerly

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1 called psychophysiological detection.

2           In the federal government, DoDPI  
3 supports twenty-two federal agencies that have a  
4 polygraph program as part of their examination.

5           Twelve of these agencies conduct the  
6 type of security screenings that we are here to talk  
7 about today.

8           The Polygraph Institute is the sole  
9 training source. The sole purpose of that entity is to  
10 provide the training and research to support the entire  
11 polygraph community.

12           DoDPI, in addition to its basic-  
13 level training for the federal examiners, provides  
14 continuing-education training for our examiners, all of  
15 whom are required to have 80 hours of continuing  
16 education every two years.

17           So, we are not just responsible  
18 for the basic training; which takes 14 weeks, and  
19 600 classroom hours, and a six-month internship with  
20 a federal agency, followed by a one-year probationary  
21 period, before they are actually released, if you will,  
22 to be a federal examiner.

23           After that period of time, they are  
24 then required to, as many of us are in the profession,  
25 continue their education through the continuing-

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1 education requirement.

2           Each agency that we support has a  
3 quality-control program. You will hear a little bit  
4 more about the DOE quality-control program in just a  
5 minute.

6           Basically, the DoDPI responsibility is a  
7 Congressional mandate.

8           We also have a quality-assistance  
9 program at DoDPI, which then inspects the quality-  
10 control programs of all the federal agencies. So, in  
11 essence, we have two levels of quality control for  
12 every exam administered.

13           The DOE and DOD administer things  
14 differently, based on the policies and needs of the  
15 departments; but in every case every agency has their  
16 own quality-control program, which investigates or  
17 ensures that exams are correct and accurate.

18           In following that, we inspect each and  
19 every agency on a regular basis to ensure that their  
20 quality programs are also up to par.

21           We at the DoDPI produced the federal  
22 standards that now exist controlling the purpose and  
23 mission of every federal exam. We basically have  
24 outlined, like any other profession, what you do  
25 and how you do it.

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1           We follow the standards of the ASTM.  
2 They have been in process with us in the last couple of  
3 years formulating a standard that will be a part of the  
4 American Society of Testing and Measurements that will  
5 include how to administer polygraph examinations.

6           We're here today to talk about the  
7 federal polygraph examinations, but we are aware that  
8 there is a private industry out there still  
9 administering polygraph exams.

10           That is one of the reasons the DoDPI is  
11 trying to set the standard, not just for the federal  
12 agencies, but hopefully to generalize over to the  
13 private world as well.

14           A little bit about our students at  
15 DoDPI.

16           We are located at Fort Jackson in  
17 Columbia, South Carolina; recently moved from Fort  
18 McClellan in Anniston, Alabama, because of a base  
19 closure. We have a brand-new, state-of-the-art  
20 facility.

21           We have a research division wing; a  
22 laboratory setup; We have instructional wings. We have  
23 pretty much a brand-new, state-of-the-art building that  
24 is equal to any of the labs you will find in most  
25 university settings.

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1 All of our students coming to us have a  
2 minimum of a baccalaureate degree. Their instructors  
3 have a minimum of a master's degree.

4 In certain cases, our instructional  
5 staff is at the Ph.D. level, simply because we are  
6 seeking accreditation and ranking authority from the  
7 Department of Education to award a master's degree in  
8 forensic psychophysiology.

9 So the Department of Education now has,  
10 and we have, a dean of education at the DoDPI, who  
11 basically monitors our regulation process and makes  
12 sure all programs are run by Ph.D.-level scientists and  
13 terminal-degree people, who then monitor the master's-  
14 level people in the classroom.

15 The curriculum that we have established  
16 at the DoDPI, as I said earlier, is somewhere around  
17 560, 600 classroom hours, plus the additional lab  
18 hours, equivalent to a master's degree program.

19 The curriculum designed at DoDPI has  
20 been designed over the years and is constantly being  
21 modified based on the research being conducted by our  
22 lab sites at DoDPI, as well as the support sites, the  
23 investigators that we have working for us across the  
24 country.

25 So, research basically drives our

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1 curriculum.

2           Some of the partners that we have at  
3 DoDPI, in terms of strategic partnerships, are major  
4 universities. Probably our biggest partner would be  
5 the Johns Hopkins Applied Physics Lab. They produce a  
6 lot of the algorithms we currently use, under contract  
7 with us, and they also do a lot of the research for us.

8           In addition, we have contracts in sites  
9 located all across the country, which is primarily my  
10 job; which is to solicit new scientists in ongoing  
11 research in the area of polygraph.

12           I guess probably the issue we're most  
13 concerned about at DoDPI, as well as here, is the  
14 accuracy of the polygraph. It is not a physical  
15 science; it is dealing with a human being and human  
16 interaction.

17           We are trying to see if there is a way  
18 to predict whether someone is being entirely candid  
19 with us, in terms of measuring a physiological response  
20 following the stimulus, which is the test question.

21           Accuracy, as you know, can be defined in  
22 a number of different ways. We want to detect lies;  
23 the true positives; people who are being deceptive to  
24 our questions.

25           You will hear in just a moment the types

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1 of questions being asked in this particular  
2 environment.

3           We want to know if we can detect those  
4 lies; We also want to know we can be sure to detect  
5 when someone is telling the truth.

6           In addition to that, we have to be  
7 cautious in our training and in our research to try to  
8 look at the types of errors that we are likely to make  
9 in this type of testing environment.

10           Calling a person deceptive when they  
11 are truthful is something we call a false positive;  
12 something we feel very sensitive to.

13           Calling someone honest when they are  
14 actually lying to us is something we call a false  
15 negative, and becomes a concern for research at DoDPI,  
16 because this is where we allow someone to slip through  
17 the cracks.

18           What do we find in terms of our  
19 research?

20           After decades of research, I guess  
21 the bottom line is that the polygraph is controversial.  
22 We hope to be able to explain today briefly some of the  
23 reasons why it continues to be controversial; but right  
24 now what we can say is, there is nothing that we can  
25 point to that says for an absolute fact there is a



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1 marker in the nervous system somewhere that says, you  
2 are lying. We continue to look for that.

3           We are working with the autonomous  
4 nervous system now, and have been for a number of  
5 years.

6           DoDPI is also investigating the central  
7 nervous system in a number of ways to see if we can  
8 improve the results of any type of research we do, and  
9 that anyone does, so that they do not contain  
10 methodological flaws.

11           The issues we work with to try to  
12 determine the accuracy and utility of the polygraph are  
13 basically done in two different ways.

14           We conduct lab experiments at the  
15 DoDPI and at universities around the country. In a  
16 laboratory experiment we conduct in this case, the more  
17 relevant type of study, we do a mock screening study.

18           This means that we hire subjects, we  
19 recruit people, from the military environment that  
20 we're in, or we recruit people from the university  
21 environment where they are attending school.

22           Many of us remember having to be guinea  
23 pigs for psychology experiments.

24           The great power and strength of that  
25 type of examination is that we control what we call the

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1 ground truth.

2           We can program the subject to  
3 be deceptive or to be truthful, so we know, as the  
4 experimenter, principal experimenter knows, in advance,  
5 how many subjects should come out to be deceptive and  
6 how many honest.

7           The examiners have never done that, and  
8 the experiments have never done that; but obviously the  
9 weakness of this laboratory type of studies is we don't  
10 have a way that we're aware of to create the ideal  
11 real-life situation with the subject and make them  
12 really feel like a criminal or a spy. It's very  
13 difficult to create that emotion.

14           The scenarios are designed to do the  
15 best they can. Field studies, the one we think would  
16 be most generalizable is when we go out to the field  
17 and try to conduct research, or we do analysis of exams  
18 that are administered in the field, and we try to look  
19 at comparing the field-study data with the lab data.

20           The strength of a field study, as you  
21 know, is this is real life. These people really are  
22 out there doing the behaviors that we are interested  
23 in.

24           The weakness, of course, is that we have  
25 very little ability to know absolute ground truth when

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1 it comes to detecting someone who has not given us all  
2 the information.

3           A simple example might be an  
4 investigation of a crime. A police officer may  
5 investigate the crime and have a suspect, get his  
6 polygraph, and the test does not come out to have  
7 significant responses, or the suspect is not willing to  
8 confess, giving accurate significant responses; and the  
9 crime goes, at least for some period of time, unsolved.

10           Can we then say we have ground truth on  
11 this subject?

12           Until there are other types of forensic  
13 evidence, or a confession from the subject, we don't  
14 use those types of cases in our database.

15           Let me, if I can, brief you quickly on  
16 some of the careful studies we have done recently at  
17 DoDPI, and are supported through the DoDPI.

18           In a recent screening study, mock  
19 studies conducted in or out of the DoDPI, we have  
20 determined with 208 subjects, excluding inconclusive --  
21 you'll hear more about that -- that all tests don't  
22 come out with absolute answers yes or no.

23           With throwing out the inconclusive, the  
24 decisions, across all these studies, the decisions were  
25 93 percent accurate with the mock-guilty subject, those

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1 programmed to be guilty, and the examiners in the blind  
2 situation found them to be guilty.

3           They were also 94 percent accurate,  
4 median accurate, with the mock-innocent people,  
5 programmed to be innocent.

6           Another example, I'll give you something  
7 outside the federal government.

8           We do have federal examiners that  
9 do go through quite extensive training, but there are  
10 non-federal examiners that go through private school.  
11 The DoDPI does not allow us to support extramural  
12 research unless the exams are administered sort of in  
13 the DoDPI way, so that we can generalize that back to  
14 our community.

15           In a study done outside of DoDPI,  
16 looking at non-federal examiners, and again excluding  
17 the inconclusive exams, we found that the accuracy for  
18 the deceptive studies was 72 percent -- a bit lower  
19 than in the lab -- and 87 percent for the truth  
20 subjects.

21           So we have some, if you will, some  
22 standards to work with in comparing the field versus  
23 the lab information.

24           As, I guess, a sample or example of  
25 something to use here, since I represent the DOD, not

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1 the DOE, I'm going to give you some data of what we  
2 found in 1998 that was in a report to Congress on the  
3 DOD counterintelligence screening that we are talking  
4 about here today.

5           In 1998, we conducted screenings on  
6 7,400 of our employees and contractors within the DOE,  
7 If not DOD. These are the results.

8           If I can take a little time to go over  
9 these, row by row, skipping around just a little bit,  
10 you'll notice at the top that out of the 7,461 people  
11 we tested, not a single person refused to take an exam.

12           The next row shows you that of the  
13 7,461 subjects, 7,334, 98.3 percent of them, who took  
14 the exam were found to be truthful, in the first series  
15 of charts.

16           I'll skip a minute on the next row, the  
17 110, and go down to the 2 people that we found to have  
18 tests we could not make an opinion on.

19           This simply means that, based on our  
20 scoring methods, where we have sort of a continuum of  
21 scores, we came in the middle of this, in the middle of  
22 the curve, if you will; and no opinion could be made  
23 from the physiological data.

24           Then we go to the four subjects in this  
25 case who were found to have a significant response, and

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1 did not, even after questioning, as you'll hear the  
2 process in a minute, making admissions to why they  
3 thought they might be responding to this particular  
4 question.

5           We also had 11 subjects who had a  
6 significant response who later, working with the  
7 examiner, made some admissions to the behavior that  
8 might have been triggering this response.

9           And then after that we retested them,  
10 and we found significant responses again, which means  
11 to the examiner that we are not getting all of the  
12 information here.

13           I know one of the questions is, what  
14 happens to these people? Well, in the DOD, we have a  
15 policy to guide what happens. In DOE, you'll hear in a  
16 minute how we handle this type of reinvestigation or  
17 follow-up, if you will.

18           Let's go back up to the top, if I can,  
19 of the 110 subjects, which for the most part will be  
20 called the false positive in the first round.

21           The significant response, people who  
22 are called deceptive after talking with the examiner,  
23 talking about the admissions and the reason that they  
24 believe they had a response, they were retested, found  
25 to be no significant response on the retest, which

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1 means the question actually changed to be more specific  
2 to what we were trying to investigate.

3           A bottom line from that kind of data  
4 basically says that in the DOD program, very similar to  
5 what's being offered here, 1 out of every 480 exams  
6 results in a false positive.

7           It does not allow for what happens  
8 eventually to the people, because there's an  
9 investigation, as you'll hear following this.

10           What do we know about the false-  
11 negative rate, the one that we are concerned with at  
12 DoDPI, trying to make sure people don't slip through  
13 the system?

14           We know in our DOD system, what  
15 we did find from this 1998 group of people is that  
16 four persons were found to be involved with foreign  
17 intelligence services, and it was discovered through  
18 the polygraph examination.

19           Three cases were discovered of  
20 deliberate sabotage to government defense systems.

21           Thirty-eight cases of hidden foreign-  
22 national contacts were discovered.

23           One hundred twenty-five instances were  
24 discovered of deliberate disclosure of classified  
25 information to unauthorized people.

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1           So the polygraph not only is something  
2 that we are interested in finding out the accuracy of,  
3 reading the physiological response, but is of utility  
4 in helping us to protect our secrets.

5           Very briefly, accuracy in the federal  
6 government overall -- and I'm quoting four studies here  
7 that were done over the years -- the last few years,  
8 the information being across the studies, we have a  
9 mean inconclusive rate of about 10 percent.

10           These are exam subjects that will have  
11 to be followed up on.

12           We have a mean accuracy of deception at  
13 78 percent; 78.2.

14           We have a mean accuracy of no deception  
15 indicated of 88.3; so we're better with the honest.

16           Mean excluding the inconclusives was  
17 found to be 85.6 across these four studies, and saving  
18 this 95 percent confidence interval.

19           One of the problems we have conducting  
20 polygraph research is we are constantly aware of trying  
21 to work around something called countermeasures, the  
22 attempt by the subject to defeat the polygraph exam,  
23 and/or the examiner, and the process involved.

24           Information about countermeasures  
25 is basically public knowledge. It's in booklets,



1 pamphlets, Web pages, about everything you imagine.

2           It basically teaches you methods,  
3 whether biofeedback or physiological maneuvers or some  
4 type of mental imagery you can do, to try to detract  
5 from the instrument measuring accurately.

6           What we do know about countermeasures is  
7 sometimes they have been successful against us;  
8 sometimes not.

9           Countermeasures are very difficult to  
10 apply and to research in a real-life setting. What we  
11 do know is that during the Cold War we found out a lot  
12 about countermeasures, because people were using them  
13 against us, to defeat our polygraph exam.

14           The Ames case is probably an example  
15 of someone who was taught by the Soviets how to use  
16 countermeasures and to defeat the process. We like to  
17 say that he actually did not defeat the test; he  
18 defeated the process.

19           He was able to talk his way through;  
20 obviously because he was used to, experienced with,  
21 taking the exams.

22           We train the federal examiners  
23 now at DoDPI in very extensive ways how to detect  
24 countermeasures.

25           We also use other types of technologies

1 and methods to detect countermeasures.

2           Just briefly, London and Krapohl just  
3 reported in the Polygraph Journal this year about a  
4 case where the subject was actually trained using the  
5 Williams process of countermeasures, and was not able  
6 to defeat it, the new federal standards.

7           Another issue that we're constantly  
8 concerned about and watching is foreign polygraph use.

9           A number of years ago, polygraph was  
10 thought to be an American technology, and only used  
11 inside of our borders.

12           What we do know now is, it is  
13 spreading. With the collapse of Communism, the  
14 polygraph has become worldwide. There are now 68  
15 countries we are aware of using polygraph programs in  
16 their counterintelligence and security programs.

17           They have the capability of catching  
18 up with it, if you will. An increasing number of  
19 countries are using it in the intelligence and  
20 counterintelligence services across the world.

21           I'd like to end with this brief  
22 presentation of what polygraph is about, and how we  
23 try to support the federal program, with a quote out of  
24 a recent book from one of our most avid critics, if you  
25 will.

0027

1 I'll just point out that even with the  
2 amount of information we get from David Lykken -- and  
3 he is helpful, because we get from him information how  
4 to improve our process -- he says that "In the hiring  
5 of policemen or CIA operatives," which I think can be  
6 generalized to people working with sensitive data,  
7 "then it might be thought that any improvement over  
8 chance," which I hope I show you we are at least over  
9 chance in our accuracy, "at all might be worthwhile.  
10 These are sensitive positions in which the person can  
11 do great mischief, and it may be in the public interest  
12 to use a screening procedure that reduces the number of  
13 undesirable candidates hired, even if this means also  
14 excluding a large number of acceptable people."

15 Thank you.

16 DAVID RENZELMAN: High-tech operation  
17 here.

18 My name is David Renzelman, and I'm  
19 employed by the Pacific Northwest National Laboratory,  
20 and I am paid by them.

21 I work for Edward J. Curran, Director of  
22 Counterintelligence, in Washington; and in addition I  
23 work for General Habiger. My job is a program manager  
24 and director of quality control.

25 What I'd like to do this morning is

1 briefly, should the polygraph program be implemented by  
2 DOE and should your position be one of those identified  
3 as being eligible and you get asked to take a polygraph  
4 test, describe the test so that you know what to  
5 expect. So I'll walk you through that process this  
6 morning.

7           During the testing process you're going  
8 to be required to be briefed, similar to this, either  
9 here or at the testing center or wherever the test is  
10 going to be administered.

11           It will be explained to you that  
12 there's nothing mystical about polygraph. It's a  
13 means and mechanism by which we can see, as is being  
14 recorded externally, what an individual is experiencing  
15 internally, as they listen to, think about and answer  
16 questions.

17           These questions are not surprise  
18 questions. They are agreed to between the examiner  
19 and the person taking the test before the test begins.

20           And this is critical. I will give you  
21 an example.

22           In the early '80s, when I was doing  
23 testing for the National Reconnaissance Office, before  
24 they had their own program, I was an agent with OSI  
25 with the Air Force.

0029

1           We had some people with TRW, about 47  
2 people in the auditorium, and I just wanted to know  
3 what everybody thought the word espionage meant; so I  
4 gave them a piece of paper and had them write it down.

5           And as I collected the papers and  
6 reviewed them after my briefing, I saw one person,  
7 a female Air Force captain, who said yes, I committed  
8 espionage, but I only did it twice. I was on travel  
9 both times. I'm very sorry that I did.

10          I told my husband, and we're going to  
11 marriage counseling now, and I promise never to do it  
12 again.

13          Now, had we not taken the time and  
14 effort to ensure that what espionage means to us means  
15 the same thing to the person taking the test, we would  
16 not have had communication. It could have caused a  
17 real problem on the results of that person's test.

18          So, our questions only target four  
19 areas.

20          First of all, we want to tell you we  
21 want to make sure that you have not committed espionage  
22 against the United States of America. That's a simple  
23 question.

24          You don't fall out of bed one day and  
25 become a spy; it takes planning, it takes a conscious

0030

1 act, it takes an overt act. And then you disclose by  
2 some means or mechanism classified information to a  
3 foreign or a hostile government or entity, that could  
4 use that information to another government's benefit,  
5 and the detriment of our government.

6 We're interested, of course, in sabotage  
7 and terrorist activity.

8 Terrorist activity is ever-increasing,  
9 going on in places now from the post office to  
10 churches.

11 It would be nice to have a comfortable  
12 feeling that folks doing the work in those areas that  
13 may be tested are not involved in that sort of  
14 activity.

15 Thirdly, we're going to talk about  
16 unauthorized disclosure of classified information.

17 I have a mandate from Mr. Curran and  
18 General Habiger that we're not interested in what  
19 people commonly refer to as pillow talk.

20 Pillow talk is a slang term that is  
21 pretty much used in DOE to describe what happens when a  
22 husband goes home or a wife goes home and talks to  
23 their significant-other or spouse, or a friend or  
24 neighbor or somebody, about something that's  
25 classified.

0031

1           By that we mean something that other  
2 person does not have a clearance for, access to, or  
3 need to know.

4           That's a couple of things; probably a  
5 security infraction, but that's not what I'm concerned  
6 about, and it's not terribly intelligent, because it  
7 shouldn't be done.

8           We phrase our questions to address  
9 the issues of unauthorized disclosure of classified  
10 information to foreign intelligence services for some  
11 entity that could use it in an effort to commit an act  
12 of espionage against the United States.

13           Lastly, we are concerned about  
14 unauthorized contact with representatives or members of  
15 a foreign intelligence service.

16           This has nothing to do with some exotic  
17 contact while a staff member may have been on a trip  
18 somewhere and met in a place that you don't care to  
19 disclose. I don't want to hear it.

20           As interesting as the story may be, it's  
21 none of my business, and we just would have to stop you  
22 before you continued with that tale.

23           We are interested in contact with  
24 foreign intelligence services.

25           All right. After the test is begun, one

0032

1 would think, well, gee, that's only four questions.

2 Well, if I were to ask you a  
3 question about committing espionage against the  
4 United States and we see no physiological responses,  
5 and we're talking about three parameters --  
6 respiration, electrodermal activity, and cardiovascular  
7 activity -- if we don't see that that question troubles  
8 you emotionally, and we don't see that on the paper,  
9 one would tend to think, well, it doesn't trouble us  
10 either.

11 And we're looking at, well, perhaps we  
12 don't need to ask any more questions about that.

13 So, we have diagnostic questions, that  
14 are designed to elicit your capability of responding  
15 physiologically should you intentionally tell a lie.

16 So, we would ask you from a list of  
17 authorized questions prepared by DoDPI, and we can't go  
18 beyond that list, but simple things like committing a  
19 traffic violation.

20 Most people who walk or cross the street  
21 or drive a car have at one time or another committed a  
22 traffic violation.

23 We ask people that sort of thing.  
24 If you can recall committing, say, for instance, a  
25 traffic violation, we would ask you not to tell us



0033

1 about that traffic violation, because we don't want to  
2 hear it. We just want you to acknowledge that you've  
3 done that.

4           Then we're going to ask you to tell us a  
5 lie, when we ask you whether you did that during the  
6 test.

7           Simple thing; how hard is that?

8 If you were speeding one time and came over a hill  
9 and there's a New Mexico state trooper and your heart  
10 started beating real fast and you experienced all that  
11 emotion, same thing kind of happens when you tell a  
12 lie, and you got caught by your mother, or those of you  
13 who are parents caught your kids.

14           Those are reactions of the autonomous  
15 nervous system that we all experience.

16           So now we have a situation where,  
17 if it doesn't trouble you when we ask you if you've  
18 committed espionage against the United States, but you  
19 can demonstrate that you do respond physiologically  
20 when you say no, I didn't commit a traffic violation,  
21 when we already knew you did, then we are satisfied  
22 that in our mind we don't need to address that issue  
23 any further.

24           Then we're going to ask a diagnostic  
25 along the lines of, are lights on in this room?

0034

1 I don't like that, because I remember a  
2 test subject one time told me, gee, Dave, I don't know;  
3 I've got my eyes closed.

4 So I'll go with, are you sitting down,  
5 wearing shoes, in the state of New Mexico, or whatever.  
6 That's what we call an irrelevant question.

7 We know the answer to that, too.

8 We're looking for your physiological  
9 responses to those, to prepare you for taking this  
10 test, which takes about eight minutes. It.

11 Will take us maybe an hour, maybe  
12 longer. It depends on you. It depends on how you  
13 interact with us and how we feel that you're prepared.  
14 We're not going to go any faster than you are prepared  
15 to go.

16 And until we are convinced that the  
17 questions mean the same thing to you that they do to  
18 us, and that it's your answers to those questions,  
19 we're going to rehearse several times that they don't  
20 trouble you, and we'll ask you does it bother you in  
21 any way, shape or form.

22 And if you say no, then we proceed.

23 Then the data is completed and recorded  
24 and evaluated.

25 It doesn't stop there. Dr. Ryan had

0035

1 alluded to quality control; that begins then and there.  
2 We will take a second examiner in the blind, to do an  
3 analysis of that same data. The data are compared, to  
4 assure that the opinions are based on the same  
5 criteria.

6           And it does not stop there. It then  
7 goes to a supervisory level, where it is done for the  
8 third time.

9           And DOE takes it one step further,  
10 and does not stop there; we go to the quality-control  
11 officials. I maintain that office, as well as program  
12 management.

13           Myself or a member of my staff will  
14 provide blind analysis on that. When we have those  
15 four levels of quality assurance, we can tell you then  
16 that that test was done.

17           When General Habiger came to take his  
18 test, he went through that process. It took a while  
19 for us to do that, and he said how did I do? We had to  
20 tell him we were not done, and that process was taking  
21 place.

22           We do that while you're there. We don't  
23 do it, send you home, and call you back here. It's an  
24 on-site, real-time, on-time process.

25           Should we need additional testing to

1 clear anything else, then, Dr. Ryan addressed false  
2 positives.

3 I don't know what a false positive is in  
4 real life, because you don't know ground truth. But if  
5 something bothers you, it's going to bother us, and  
6 it's our job to determine what is it that bothers you.

7 You say, I didn't commit espionage  
8 against the United States. Well, we can resolve that,  
9 and we can proceed.

10 The Secretary of Energy has told us, the  
11 General, Mr. Curran and me point-blank that the only  
12 guy that can approve your test is going to be the  
13 Director of Counterintelligence. He has the  
14 delegation of authority.

15 He then reviews and acts upon and  
16 retains the documentation on each of these kinds of  
17 examinations.

18 We provide independent quality assurance  
19 on all these tests. We record them all. Let me tell  
20 you why.

21 We have an audio/video recording in  
22 digital format, with an 8-millimeter camera, and it's  
23 focused on you during the whole testing process. It's  
24 turned on before you enter the room, and not turned off  
25 until the test is finished.

0037

1           We want a permanent record of every word  
2 said both by us and by you, and every activity that  
3 takes place.

4           During the testing process, we take  
5 the data from the computer that you're providing during  
6 the testing process, and insert it digitally into that  
7 videotape, so that we can see those responses as if it  
8 were on a chart like you see in the movies.

9           So then we have a supervisor that  
10 is watching that test, as it is, live, and we can  
11 determine the testing process each step of the way.

12           Now, let's suppose that the test is over  
13 and there are no issues. That videotape is destroyed;  
14 and we do it by incineration. There's no reason to  
15 keep it.

16           On the other hand, in the event that you  
17 tell us something that warrants investigation, we keep  
18 that until the investigation is complete.

19           We only follow accepted and established  
20 formats and procedures.

21           The Secretary has told the General  
22 and Mr. Curran and myself specifically that adverse  
23 action cannot be taken against you solely based upon an  
24 adverse or what you'd call a positive polygraph test,  
25 meaning that there's an issue that we have yet to be

0038

1 able to resolve where you didn't pass your polygraph  
2 test or whatever you want to call it. We can't do  
3 that.

4           Conversely, for those of you that  
5 do get through the testing process, and all but a  
6 minor few are going to, I can tell you from real-life  
7 experiences, that can be used in connection with you  
8 like it can be used in court, stipulated to by  
9 attorneys and accepted by the judge.

10           If, for example, there's circumstantial  
11 evidence that says you did that, but a polygraph test  
12 says you didn't, I have testified in court, testified  
13 in military court, state court, federal court, and it's  
14 stipulated between attorneys, and seen people who were  
15 let go where without that process they would have been  
16 convicted and still be in prison today.

17           All of our people, our graduates, have  
18 done fine.

19           I require them in addition to  
20 that to get an advanced degree. I don't believe a  
21 baccalaureate degree is sufficient. When they come on  
22 board as an a DOE examiner, they're required to go on  
23 and get that master's degree.

24           We're not going to teach them; they're  
25 going to know how to do it before the testing process.

0039

1 All of our people, 1811 series,  
2 NIS agencies, CIA agencies, I have all of those on my  
3 staff. You are certified; and in order to retain that  
4 circumstances you have to have a minimum of 40 hours of  
5 continuing education annually.

6 State of New Mexico requires 20 for  
7 a licensed clinical psychologist.

8 DOE-examiner certification is more  
9 intense than DoDPI certification, because I want to be  
10 a step above everybody else.

11 We require full membership in the  
12 American Polygraph Association, and full membership in  
13 the American Association of Police Polygraph Examiners.  
14 We have a president.

15 I serve as director of quality control  
16 for one, and subchairman of quality control for the  
17 other.

18 One of our gentlemen is the chairman for  
19 the ethics committee, and another is the editor for the  
20 Journal.

21 We've been inspected and approved  
22 and certified for all of those agents you see on the  
23 screen.

24 We have the capability of complying  
25 with all provisions of the Americans with Disabilities

0040

1 Act, whatever it may be, including administering  
2 examinations to folks who require assistance in  
3 wheelchairs or assistance for the hearing-impaired; and  
4 we have not encountered anything that we have not been  
5 able to successfully conduct.

6           There are two people whose names you  
7 should know who set the policy.

8           One is seated right here, and that's  
9 General Habiger.

10           When you take the guy who's been the  
11 guy in charge of the entire Strategic Air Command, and  
12 match him up with an Assistant Director of the FBI,  
13 which is what Ed Curran was and is now, and you put  
14 them together to protect our national secrets, if you  
15 will, I think we have the provision to make it a  
16 dynamite program.

17           It requires assistance; it requires  
18 cooperation. We have to work together to do it.

19           I think we're prepared to proceed.  
20 Should this process be approved, I can guarantee that  
21 if you are asked to take that test you'll be treated  
22 with dignity and respect, and that every effort will be  
23 made to verify that you are warranted in obtaining or  
24 retaining your access to the information that you have  
25 or should have or would have.



0041

1           GENERAL HABIGER: Ladies and gentlemen,  
2 for the past 45 minutes we've been in transmit mode.  
3 We're going to take a break now for 20 minutes.

4           When we reconvene we'll be in the  
5 receive mode only, to listen to your concerns.

6           So we'll stand adjourned for 20 minutes.

7           Thank you.

8           (Recess taken)

9           GENERAL HABIGER: Ladies and gentlemen,  
10 let's go ahead and convene the public hearing.

11           It's now time to move on for the reason  
12 we're all here: To elicit your comments on the Notice  
13 of Proposed Rulemaking.

14           I'd like to call our first speaker to  
15 the podium, Mr. John Longer.

16           I would ask each speaker to state his or  
17 her name, whom you represent, before making your  
18 statement. Thank you.

19           JOHN LONGER: Thank you.

20           My name is John Longer, and I represent  
21 myself.

22           I will not waste your time today  
23 trying to convince you that your polygraph machines  
24 are useless. No; you have already made up your minds  
25 that these precious little machines are absolutely

0042

1 wonderful.

2           However, I will make a few comments.

3           In reading over the proposed regulation,

4 I missed the part where members of Congress are going

5 to take a polygraph test along with us at the LANL

6 labs.

7           If it's good enough for the little guy,

8 isn't it good enough for our bosses? Why aren't the

9 members of Congress taking the test? Every day in the

10 news I hear the Republicans and Democrats accuse each

11 other of selling out our national interests.

12           Well, your little box could clear the

13 air once and for all!

14           Since you believe these tests to be

15 so great, can we now save the taxpayers' money by just

16 giving new hires the polygraph tests, and forget about

17 background investigations?

18           Why, let's take the test another step

19 forward, and go for true justice in this country. Take

20 the polygraph to the federal prisons, and release

21 everyone who passes the test.

22           (Laughter; applause)

23           If they pass, they are innocent, aren't

24 they?

25           Surely the 99-point-something-percent

0043

1 accuracy that you claim is a better rate than our court  
2 system can produce.

3           It is my understanding from statements  
4 made by proponents of the test that if an employee  
5 passes the polygraph test they are in the clear, but of  
6 course passing the test really doesn't mean much in  
7 light of past events.

8           As an example, I offer the reported  
9 story that Wen Ho Lee passed a polygraph test in  
10 November 1998.

11           If this reported story is true, why did  
12 you continue your investigation of this man? Didn't  
13 you trust your own machine?

14           I've also read accounts that other  
15 reported spies have passed a polygraph test. That  
16 included Aldrich Ames, a CIA operative.

17           Let me tell you what I think these tests  
18 will accomplish.

19           They will give Congress a good feeling  
20 about themselves, and allow them to brag to the voters  
21 that they did something.

22           They will make it harder to recruit top  
23 people to work for the Lab. We will now only be able  
24 to recruit those people interested in quasi-science.

25           They will increase the level of anxiety

0044

1 in an already-stressed atmosphere at the Labs.

2           They will cause trouble for people who

3 have nervous temperaments.

4           But most of all, they will allow the

5 trained spy to go free!

6           Thank you.

7           GENERAL HABIGER: Thank you, sir, for

8 your comments.

9           (Applause)

10          Ms. Betty Gunther?

11          BETTY GUNTHER: My name is Betty

12 Gunther. I represent the University Professional and

13 Technical Workers, Local No. 1663 of Los Alamos; and we

14 would like to state our opposition to polygraph

15 testing.

16          I'll read this, so it will be accurate.

17          The members of Local 1663 of the

18 United Professional and Technical Employees of Los

19 Alamos are very concerned about national security and

20 the prevention of security leaks within our work areas

21 and within the entire national defense program.

22          However, the members of UPTE, as

23 well as many other Los Alamos employees, would like

24 to express their strongest opposition to the polygraph

25 testing of workers at Los Alamos National Laboratory in

1 particular, and all national laboratories in general.

2           Five minutes is not enough time to  
3 thoroughly present our concerns, but the following is  
4 an attempt to cover a vast number of concerns in the  
5 inadequate amount of time allotted for this  
6 presentation.

7           We at UPTE are very concerned about the  
8 scientific veracity of the polygraph as a means of  
9 detecting lying.

10           We will not go into the factual basis  
11 for that concern, since it has been well expressed in  
12 statements made to this body by the scientists and  
13 engineers of Sandia National Laboratory and Lawrence  
14 Livermore National Laboratory, and by speakers from DOE  
15 who have already spoken here today.

16           Their eloquent statements demonstrate  
17 clearly the inaccuracy of the polygraph as a means of  
18 detecting lies.

19           There is clearly a wide body of  
20 scientific information showing the polygraph is a poor  
21 indicator of lying.

22           DOE has defended itself against  
23 this statement by saying it is using a version of the  
24 polygraph developed by the Department of Defense, and  
25 which has never been tested except by Gordon Barland,

1 who has shown that only .002 of the 7,461 employees  
2 tested had "questionable" results.

3           We were not told quite what his  
4 credentials were, nor where to find published results  
5 of his work in refereed journals. This information is  
6 of the utmost importance, considering the fact that we  
7 are led to believe the form of test administered by  
8 Barland is the form likely to be used at LANL.

9           Importantly, his results differ  
10 significantly from those of other researchers in the  
11 field, and cannot be considered reliable until they can  
12 be reproduced by impartial scientists and shown in  
13 scientific journals to be reliably reproducible.

14           The workers at Los Alamos remain  
15 completely unconvinced by the studies apparently  
16 commissioned by the DOD itself and unverified by more  
17 impartial researchers.

18           In addition, it appears the DOD  
19 actually has a school devoted to the training of  
20 polygraph interrogators, called the Department of  
21 Defense Polygraph Institute. It is appalling that  
22 taxpayer money is being used to support a school to  
23 train people to administer a test which can be shown in  
24 the scientific literature to be invalid.

25           According to the background, Section 2,

0047

1 of the proposed Rule 10 CFR Parts 709, 710 and 711 --  
2 this is a quote -- "DOE believes that established  
3 procedures for polygraph testing, limitations of scope  
4 of questions, qualifications standards for polygraph  
5 examiners, and limitations on the use of polygraph  
6 examination results with regard to final adverse  
7 actions will be perceived as fair by most potential  
8 employees and will protect the legitimate interests of  
9 DOE employees."

10           This belief is based on no facts  
11 whatsoever. DOE does not claim to have surveyed  
12 potential applicants for employment at the National  
13 Laboratory to see how they view polygraphs, and assumes  
14 that it will protect the "legitimate," in quotes,  
15 interests of national laboratory employees.

16           One can only wonder which employee  
17 interests the DOE considers legitimate.

18           Among likely repercussions from  
19 "questionable" results on a polygraph examination:

20           One interest most national laboratory  
21 employees hold is being considered innocent until  
22 proven guilty. Americans hold this concept very  
23 dearly, and hope the DOE does as well.

24           Yet, being subject to inherently  
25 unreliable polygraph tests and being removed from

1 sensitive projects based on their results is not an  
2 example of being held innocent until proven guilty.

3           DOE and LANL argue that no one will  
4 lose a job because of the results of the polygraph  
5 alone. However, it does not specify what other issues  
6 combined with "questionable" results on a polygraph  
7 exam will cause the loss of a job.

8           Those of us who work here at LANL are  
9 aware that few employees are ever fired. Generally,  
10 those who lose their jobs at LANL lose them through  
11 Reductions in Force, RIFs, which are held periodically  
12 at LANL.

13           It is completely in keeping with LANL  
14 management practices that those who have "questionable"  
15 results on a polygraph or who have refused to take one  
16 will be on the next RIF list.

17           Management would argue that this loss  
18 of job was for budgetary reasons, not because of the  
19 polygraph; but undoubtedly those who have not passed  
20 polygraphs will be RIFed at a greater rate than those  
21 who have.

22           And there is good reason employees will  
23 be RIFed due to budgetary factors. Since approximately  
24 two-thirds of LANL's budget is devoted to the nuclear-  
25 weapons program, that leaves one-third of LANL's budget



1 to absorb workers who have had "questionable" polygraph  
2 results or who refuse to take the test, and must be  
3 removed from sensitive projects.

4           At first glance, that one-third appears  
5 to be a sizable percentage of a \$1.2 billion budget  
6 with which to employ workers who have questionable  
7 results on polygraphs, or who refuse to take them.

8           But non-nuclear-weapons programs are  
9 already straining under the need to absorb foreign  
10 nationals who previously worked on nuclear-weapons  
11 programs at LANL and who have been forced out of them  
12 by recent changes in DOE policy.

13           Nor are workers like gears and bearings.

14           One worker, who has trained for years  
15 in the field of, say, computational physics, cannot be  
16 dropped into a non-sensitive program in, say, life  
17 sciences and expect to be productive.

18           It would take many years of retraining  
19 to make that employee productive again. During those  
20 years of retraining, that worker would be a likely  
21 candidate for RIFs and bad performance evaluations  
22 because of a lack of productivity for which he or she  
23 will not be responsible.

24           All of these adverse outcomes will be  
25 based on an inadequately tested test.

1           Basically, polygraphs are measures  
2 of biological responses to certain questions. Since  
3 scientists cannot show that the polygraph reliably  
4 indicates lying, it seems obvious that the polygraph  
5 itself could generate the kind of nervous reactions  
6 that would produce "questionable" results.

7           Dr. Wen Ho Lee, who was recently fired  
8 from LANL, passed his first polygraph examination; but  
9 when he was given another a few months later, he was  
10 found to be "deceptive."

11           Or was he just nervous? If the  
12 polygraph were reliable, the only way he could have  
13 failed the second polygraph is if he had committed  
14 espionage between the first and second polygraphs.

15           (Laughter)

16           But DOE does not maintain that his  
17 alleged espionage occurred in that brief period; it  
18 claims it happened many years before.

19           The fact that Dr. Wen Ho Lee lost  
20 his security clearance, and eventually his career of 21  
21 years, and has had no charges of any kind filed against  
22 him, is not of comfort to most LANL employees.

23           Although DOE specifies that the results  
24 of polygraphs will be kept according to the Privacy Act  
25 of 1974, LANL workers are painfully aware that this is

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1 a promise which the DOE is unable to keep.

2           In the case of Dr. Wen Ho Lee, the  
3 results of his polygraphs and many other aspects of his  
4 security investigation were published, first in the New  
5 York Times, and then in most news media throughout the  
6 world.

7           Of course, nobody will admit to having  
8 given out these results; but someone did. To his  
9 lifelong detriment, Dr. Lee was tried by the media.

10           Dr. Lee's security file was not  
11 only supposed to be protected, but was apparently  
12 classified. The leaking of his security information  
13 is a very significant security leak and, according to  
14 media sources, endangered the entire investigation.

15           DOE and other organizations which had  
16 access to Dr. Lee's security file need to clean up  
17 their own houses before they start trying to clean up  
18 leaks that cannot even be traced to LANL, or other  
19 scientific laboratories.

20           (Applause)

21           As David Renzelman of DOE explained in  
22 a recent presentation to LANL employees, the use of the  
23 polygraph as an investigative technique is basically an  
24 attempt to extract confessions. The subject is not  
25 allowed to have an attorney present, and is not read

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1 the Miranda rights.

2           The subject registers certain skin and  
3 voice responses, but cannot know what causes these  
4 responses, since they are controlled by the involuntary  
5 nervous system.

6           So, when the investigator sees an  
7 unusual response, the subject will be questioned as to  
8 why his or her body registers such as response.

9           The person can only guess. If he  
10 or she hazards a guess, this will be noted; and the  
11 interrogator, who also doesn't know why the person  
12 registered such a response, will record the answer.

13           Whether or not this is an adequate  
14 explanation is up to the subjective opinion of the  
15 interrogator.

16           So, if the interrogator decides the  
17 question is inadequate, he or she will ask more  
18 questions. The answers to these questions will be  
19 noted, and more questions will be asked until a  
20 confession is extracted or the interrogator is  
21 convinced that the person is innocent.

22           These techniques sound like those of the  
23 KGB in a Grade-B movie and are, in fact, normal tools  
24 of dictatorships.

25           Mr. Renzelman assures us that any

1 confession of crime not related to DOE interests will  
2 be turned over to the proper authorities.

3           Success in the polygraph-testing  
4 program, according to Renzelman, will result in a  
5 confession without the presence of an attorney or the  
6 Miranda rights on the parts of some number of  
7 employees.

8           Since the person administering the test  
9 will not be a police officer, the subject basically  
10 does not have the rights afforded to common criminals  
11 in the United States.

12           The decision by DOE to polygraph  
13 employees of national laboratories is a mistake for  
14 many reasons. Polygraphs lack scientific validity, but  
15 have the power to destroy careers and personal lives,  
16 and have already done so.

17           DOE is unable to protect the privacy  
18 of those who have been polygraphed, and will treat  
19 employees in a manner worse than the treatment of  
20 common criminals.

21           The probable loss of job applicants, as  
22 well as seasoned employees, will result in damage to  
23 LANL and to other national laboratories, and will  
24 ultimately result in loss of quality of defense  
25 research as well.

0054

1 Employees' morale will be devastated by  
2 being treated as criminals. DOE should not go forward  
3 with its plan to polygraph workers at Los Alamos  
4 National Laboratory.

5 The University Technical and  
6 Professional Local 1663 strongly opposes this program  
7 as an unfair labor practice, of negative value to the  
8 United States Defense Program; and we have the support  
9 of many LANL workers.

10 We urge DOE to find more sound methods  
11 to protect national security.

12 If the United States is to resort to the  
13 techniques of dictatorships in order to maintain its  
14 integrity, its citizens will soon find their interests  
15 have little to do with national-security interests.

16 (Applause)

17 GENERAL HABIGER: Ms. Gunther, thank you  
18 for your input.

19 Ladies and gentlemen, I would ask, in  
20 order for us to accommodate all the people who would  
21 like to speak, to limit your remarks to five minutes.  
22 I did not interrupt Ms. Gunther; she had a number of  
23 salient points.

24 But if you could stick to five minutes,  
25 I certainly would appreciate it.

0055

1 Mr. George Chandler?

2 Thank you very much.

3 GEORGE CHANDLER: George Chandler.

4 I represent myself.

5 Thank you, Betty.

6 Since I signed up to do this, I've  
7 been struggling to find how to do this in five minutes.

8 Betty said a lot of the things I think; I'll go along  
9 with that. But also, in the paper this morning, I  
10 found the answer to my dilemma.

11 There on the front page was General  
12 Habiger responding to questions about the new agency;  
13 at least his comment was very quotable. "It's not  
14 about security; it's about politics."

15 And, General, polygraph testing is not  
16 about security; it's about politics.

17 (Applause)

18 You were broadcast on NPR this week  
19 after the Livermore hearing, saying that our goal here  
20 is to re-establish our credibility with Congress.

21 I don't think you're trying to find  
22 spies; and I can assure you that this system, this  
23 polygraph testing, is not addressing the real security  
24 problem that exists in the nuclear-weapons program.  
25 I think we should be doing that.

0056

1           Your rule is based extensively on memos  
2 written by Lyndon Johnson; particularly, an executive  
3 memo from 1960.

4           Your rule turns that memo on its  
5 head. That memo was intended to prevent unwarranted  
6 intrusion into the privacy of individuals. That memo  
7 was intended to expand the Bill of Rights to federal  
8 workers, and by extension to contract employees like  
9 us.

10           Individual dignity is supreme in this  
11 nation, and it is individual dignity that we should be  
12 trying to protect.

13           That's two hundred years old.  
14 I would place that above any national security.  
15 We need to find other means to address these problems,  
16 and these kinds of violations.

17           John Browne asked us to be instructive  
18 when we came here. I'll try to do that.

19           We can't talk about security issues.

20           I'd like to have a classified,  
21 secure area where we could discuss security issues,  
22 because there are serious security issues in the  
23 nuclear-weapons program. I'm aware of some, and I'm  
24 sure there are others that I don't know about.

25           I'd like to talk about them. I can't in



0057

1 detail here, but I will address a couple.

2           Classification rules are

3 incomprehensible; they need to be rewritten.

4           When this whole thing started, John

5 Browne wrote another of his memos, where did he go?

6           (People chuckling)

7           He said, "If you guys all know what's

8 classified, let's protect it."

9           The fact of the matter is, we

10 don't. You can't tell. The classification rules are

11 so convoluted, incomprehensible, that you cannot tell

12 what's classified and what's not. There needs to be a

13 look at this. They need to be rewritten, and need to

14 be made understandable, simplified, so that working

15 scientists trying to protect national-security

16 information can do so.

17           The perspective of violation of security

18 regulations depends on who you are.

19           If you're the Secretary of Energy,

20 or you're a Congressional staffer, and you commit a

21 security violation, nothing happens. If you're some

22 schmuck at the laboratory who makes a minor violation,

23 you get time without pay; you get security infractions,

24 reprimands. It's unfair.

25           (Applause)

0058

1           It breeds cynicism about the security  
2 system, and cynicism undermines national security.

3           You need people who have confidence that  
4 their efforts, their strong efforts, to protect these  
5 things are being supported, and that if they make a  
6 minor mistake, that they will be supported in that.

7           I have a proposal. I'd like to propose  
8 that we have a forum, a national forum, among the  
9 weapons laboratories and the DOE and the DOD to discuss  
10 nuclear-weapons security, to decide what's classified  
11 and what's not classified, how we protect it, how  
12 interpretations of classification rules can be  
13 broadcast so that what's classified in one laboratory  
14 is classified in another, and vice versa.

15           You're in a unique position, General.  
16 You should think about what your legacy is going to be  
17 after you're gone.

18           You can change the way we protect our  
19 nuclear-weapons secrets in such a way that it truly  
20 protects those secrets; or you can install a cosmetic  
21 fix that's proposed here in the polygraph testing.

22           What do you want to be known for? Do  
23 you want to be known for having a real solution, or do  
24 you want to be known for implementing a political fix?  
25 The choice is yours, and I hope you make the right one.

0059

1 Thank you.

2 (Applause)

3 GENERAL HABIGER: Thank you very much,  
4 Mr. Chandler.

5 Next speaker is Rhon Keinigs; and if I  
6 mispronounce that, please correct me, sir.

7 RHON KEINIGS: Keinigs.

8 The work we do at Los Alamos is vital  
9 to national security, and we work hard to ensure that  
10 certain information is not compromised. Improvements  
11 can be made. However, Congress is searching for a  
12 foolproof method of ensuring security, and none exists.

13 Polygraph screening is being implemented  
14 in the hope of improving security, when in fact logic  
15 indicates that the opposite will result. I have found  
16 no one who thinks polygraphing is a credible approach.  
17 Personally, I believe it will fail, for several  
18 reasons.

19 One, widespread polygraphing will  
20 seriously degrade the science base necessary to ensure  
21 the continuance of a reliable nuclear deterrent.

22 Two, polygraphing is an infringement of  
23 our constitutional rights to protection from  
24 unreasonable search.

25 And three, such a program has little if

0060

1 any scientific merit.

2           If polygraphing proceeds, it will  
3 certainly erode the relationship between DOE and the  
4 Laboratory, a relationship that has been based upon  
5 trust and, historically, a unified sense of mission.

6           Degrading this environment will do  
7 unforeseen damage to our ability to ensure the  
8 reliability and safety of the nuclear stockpile.

9           If polygraphing is widespread, many  
10 committed employees will terminate their relationship  
11 with LANL, and many others who stay will no longer feel  
12 the sense of duty and purpose required for the job.

13           Recruitment of new staff, particularly  
14 in the weapons programs, will be seriously jeopardized.  
15 Such trends will weaken the science base that supports  
16 the primary mission of the Laboratory.

17           These very issues were emphasized in a  
18 letter authored by the chairman of the UC President's  
19 Council on the National Laboratories, and unanimously  
20 endorsed by the Council. In this letter, it was  
21 strongly recommended that widespread polygraphing not  
22 be pursued.

23           Agreeing to a polygraph is not part of  
24 the terms of employment at Los Alamos. Testing of this  
25 sort is an infringement of our constitutional rights as

1 citizens to protection against unreasonable search  
2 without probable cause.

3 Polygraphing is unreasonable in that it  
4 basically entails a probe of the nervous system, it is  
5 unscientific, and it could be considered a form of  
6 trial by machine.

7 Certainly a just cause for administering  
8 wide-ranging polygraphs has not been presented.

9 A preponderance of scientific evidence  
10 indicates that polygraphing used as a widespread  
11 screening tool is without merit.

12 In testimony given before the U.S.  
13 Senate Committee on the Judiciary, Dr. Drew Richardson  
14 of the FBI Science Laboratory recommended the FBI  
15 abandon widespread polygraphing.

16 This was based upon several factors,  
17 including that there is nearly universal agreement  
18 among scientists that polygraph screening is invalid.  
19 Another reason was the associated monetary costs of  
20 such a program.

21 Professor David Lykken of the University  
22 of Minnesota, writing in the scientific journal Nature,  
23 cites several credible field studies of the Control  
24 Question Test that indicate false-positive results of  
25 nearly 33 percent.

1           This test is a standard technique in  
2 specific-issue situations such as espionage. Yet we  
3 have recently been informed by Mr. David Renzelman,  
4 polygraph coordinator of DOE, that results obtained at  
5 the Polygraph Institute indicate false positives of  
6 less than 1 percent.

7           Obviously, polygraphing requires further  
8 validation. I ask, would Congress be satisfied if the  
9 stockpile was so poorly validated?

10           (Applause)

11           Los Alamos, Livermore and Sandia  
12 National Laboratories have been entrusted to certify  
13 the stockpile for the next 30 years; but we are being  
14 told to accept standards that are far lower than the  
15 standards by which we are expected to perform our jobs.

16           Members of Congress should rethink  
17 this problem, and explore a truly viable solution to  
18 improving security. The price tag of proceeding with  
19 the present program will be the undermining of the  
20 science base required to maintain the strongest  
21 national defense, and the immeasurable damage that  
22 could be done to many of the government's most  
23 conscientious employees.

24           The mission of the stockpile-stewardship  
25 program has as its ultimate and underlying purpose the

0063

1 protection of the freedoms shared by all U.S. citizens,  
2 and that includes those of us working at the weapons  
3 laboratories.

4 As loyal Americans, we deserve better.

5 Thank you.

6 (Applause)

7 GENERAL HABIGER: Thank you very much,  
8 sir.

9 Next speaker is Peter Sheehey.

10 PETER SHEEHEY: My name is Peter  
11 Sheehey. I represent myself.

12 I'm a technical staff member in  
13 X Division at Los Alamos National Laboratory. I know  
14 the Constitution does not guarantee me the right to a  
15 job with a security clearance, but the Constitution and  
16 the laws we live by do provide a guide to reasonable  
17 treatment of people.

18 Polygraph test results are not accepted  
19 in a court of law, because there is reasonable doubt  
20 about their reliability.

21 I expected to give up a certain  
22 amount of privacy when I made a career commitment to  
23 doing classified scientific research; but no reasonable  
24 person will make such a commitment if his clearance and  
25 ultimately his job can be taken away solely on the

0064

1 basis of polygraph test results of unknown and  
2 unproven accuracy.

3           Nothing in the proposed regulation  
4 prevents this; Section 709.25 specifically permits it,  
5 at the discretion of the Secretary or Secretary's  
6 designee.

7           Therefore, I urge you to include  
8 specific language in this regulation that "No clearance  
9 will be revoked solely on the basis of polygraph test  
10 results"; period.

11           Reasonable due process should be  
12 afforded employees by language such as "A worker will  
13 be confronted with the additional evidence leading to  
14 revocation of his clearance, and given the opportunity  
15 to refute it."

16           This language should be in Section  
17 709.25, "Limits on Use of Results," replacing the  
18 language defining when polygraph results can be the  
19 sole basis for action against an individual.

20           I believe the Secretary of Energy  
21 already has the right to revoke security clearances in  
22 emergency situations, and I have no argument with that.

23           But to put such an exception in  
24 this polygraph regulation invites misuse of that power.  
25 It should not be considered an emergency when someone,



0065

1 quote, "flunks" a polygraph test; at most, it should be  
2 considered cause for further investigation.

3 I do not object to some limited use of  
4 polygraph tests as an investigative tool, although many  
5 people see this as just another form of the third  
6 degree; that is, coercive interrogation.

7 Holders of security clearances expect  
8 their behavior to be monitored more closely than other  
9 employees, and I invite you to use appropriate means to  
10 do this.

11 In particular, you can monitor banking  
12 and charge accounts to look for any unusual financial  
13 or travel activities.

14 Polygraph tests are no substitute for  
15 such monitoring. If a suspicious pattern of behavior  
16 is seen, then perhaps a polygraph test could be part of  
17 the investigation.

18 But without probable cause, subjection  
19 to coercive interrogation is no way to treat loyal  
20 career employees.

21 (Applause)

22 Taking away a person's clearance  
23 without any tangible evidence of wrongdoing is wrong,  
24 counterproductive, and unacceptable to me and to many  
25 national defense workers.

0066

1           Adoption of such a policy, without  
2 strong controlling language such as I've suggested,  
3 could decimate the National Laboratories and destroy  
4 their effectiveness as contributors to our national  
5 security.

6           If we do that, we will have handed a  
7 victory to our nation's enemies.

8           Copies of this statement have been sent  
9 to my Congressmen and Senators, and I urge any members  
10 of the audience who have strong feelings on this to do  
11 the same.

12          Thank you.

13          GENERAL HABIGER: Thank you, sir.

14          (Applause)

15          GENERAL HABIGER: Norman Delamater?

16          NORMAN DELAMATER: Good morning. My  
17 name is Norman Delamater. I'm representing myself.

18          I'm a staff member here at Los Alamos.  
19 I've been involved in classified research for upwards  
20 of fifteen years, so I speak to you with some  
21 experience.

22          I'm only the sixth speaker, and pretty  
23 much all my points have already been made. There are a  
24 number of points that roll down to similar arguments,  
25 but let me go ahead anyway here.

1           Your proposed rules will permit blanket  
2 testing of thousands of employees with no determination  
3 of probable cause. This would appear to be in  
4 violation of the Fourth Amendment to the U.S.  
5 Constitution.

6           Laboratory employees will also be denied  
7 legal counsel during any phase of the polygraph exam;  
8 Section 709.22.

9           General Habiger, I notice you have your  
10 lawyer Ms. Howe right next to you.

11           (Laughter; applause)

12           The DOE rule should allow legal counsel.

13           Laboratory and University of California  
14 policy, AM 702.09, would require employees to waive all  
15 legal rights against the university upon volunteering  
16 for any polygraph exam. Thus, innocent employees will  
17 not be able to seek redress in the courts in the event  
18 of false-positive negative consequences of the  
19 polygraph.

20           The DOE acknowledges in Section II that  
21 polygraphs are inaccurate. The scientific literature  
22 in this area quotes false-positive rates as high as 10  
23 to 50 percent.

24           The literature also suggests that, while  
25 polygraph exams may be helpful in certain criminal

1 investigations, its use as a screening tool is not at  
2 all valid or proven to be accurate.

3           It's highly probable that hundreds of  
4 loyal employees here will be faced with false-positive  
5 results, and their consequences.

6           This really is reminiscent of the  
7 McCarthy era, when careers were ruined on unfounded  
8 allegations. The position of the government seems to  
9 be that one is guilty of espionage until proven  
10 innocent by polygraph.

11           I really am concerned that my rights as  
12 a citizen are being abused by this policy.

13           Trampling on the rights of citizens is a  
14 series matter, even in the national security. You have  
15 not struck a balance between the rights of citizens and  
16 rights of national security with these rules.

17           At the very least, DOE should request an  
18 academic study on the effectiveness of polygraphs in  
19 screening situations such as this.

20           The National Academy of Sciences might  
21 be commissioned to perform such a study as soon as  
22 possible.

23           The DOE claims in Section 709.23 that  
24 consenting to a polygraph exam is voluntary. This is  
25 an example of legal nonsense.

1           The examinations are obviously not  
2 truly voluntary, since the DOE proposed to require  
3 the examination to maintain an individual's security  
4 interests. If an employee would refuse the examination  
5 as a matter of principle, the result would be loss of  
6 clearance and eventually loss of job.

7           This is actually a violation of UC  
8 policy, again in the Administrative Manual 702.08,  
9 which states that refusal to take any polygraph  
10 examination could not result in an adverse job  
11 consequence.

12           Your Section 709.25 should be  
13 modified, as the previous speaker said, to state  
14 that no individual's Q clearance could be suspended or  
15 revoked; Rather, other evidence must be gathered by DOE  
16 the old-fashioned way: An investigation finding some  
17 probable cause.

18           The proposed regulations in Section  
19 709.21 state that 48 hours' notice will be provided an  
20 individual prior to the polygraph exam.

21           That's inadequate. You need to change  
22 that; make it a two-week notice. I'm going to be away  
23 on a trip next week. If my notice came next month, I  
24 would be gone and wouldn't hear about it.

25           And also the extra time period for

0070

1 allowing the individual, should he desire, to obtain  
2 adequate legal counsel to make preparations prior to  
3 the examination.

4           This is an interrogation. Our jobs  
5 depend on this. People are going to be nervous, and I  
6 do want to make sure I uphold my constitutional rights.

7           Section 709.4 is way too broad in  
8 describing who would be subject to a polygraph exam.  
9 Virtually everybody with a Q clearance is going to be  
10 subject to this. I would suggest really modifying your  
11 rule, making this only applicable to people with truly  
12 top-secret national security information.

13           The regulations 709.11 and 12 do not  
14 suitably restrict the question subject areas during the  
15 polygraph exam, and show that DOE is truly on a fishing  
16 expedition to unfairly interrogate employees under  
17 intimidating positions, with no legal counsel allowed  
18 for the employee.

19           Section 709-12 actually allows  
20 different questions for each individual based on  
21 pretest interrogations. If there is not a standardized  
22 set of questions to properly calibrate the test, how  
23 can you possibly claim you're going to have a false-  
24 positive rate of 1 percent? Everybody is going to have  
25 slightly different questions.

0071

1           Section 709.31 and 32, regarding  
2 training of polygraph examiners: It is stated that  
3 polygraphers will have at least 40 hours of training.  
4 That's the minimum: 40 hours of training.

5           Am I to understand that my continuation  
6 as a loyal employee of the Laboratory here is to be in  
7 the hands of somebody with as little as one week's  
8 training as a polygrapher? That doesn't stand to  
9 reason.

10           (Applause)

11           Finally, in Section II, DOE acknowledges  
12 that approval of these polygraph regulations may make  
13 it more difficult for the Laboratory to recruit and  
14 maintain confident qualified people.

15           You bet it will! You bet it will make  
16 it more difficult!

17           (Applause)

18           I and some of my colleagues have already  
19 stopped recruiting new Ph.D.'s precisely because of the  
20 new conditions of official distrust and intimidation at  
21 this laboratory. You don't trust us; that's the bottom  
22 line.

23           Passage of these regulations regarding  
24 polygraph exams will not improve national security.  
25 Rather, national security will suffer as the national

0072

1 laboratories become mediocre institutions, while the  
2 best and brightest scientists leave to find work  
3 elsewhere, in a more hospitable environment.

4           A credible stockpile-stewardship program  
5 is a technical challenge requiring the most capable  
6 scientists to achieve its goals.

7           You have to understand, stockpile  
8 stewardship is a difficult problem. We are doing  
9 nuclear testing. We have to understand everything from  
10 basic principles on up.

11           Real improvement in national security  
12 occurs as a result of the great science that our  
13 national laboratories produce; not from more security  
14 lectures, not from more barbed-wire fences to isolate  
15 us, and not from polygraphs.

16           My final personal statement is, I really  
17 am outraged at this humiliating and insulting treatment  
18 that I'm receiving by my government.

19           I find myself being labeled a traitor,  
20 and forced to prove my innocence to you. This is not  
21 the American way; this is nothing less than  
22 police-state tactics.

23           History will be the judge of your  
24 actions today, General Habiger. I hope you make the  
25 right decision, and reject polygraphs.



0073

1 (Applause)

2 GENERAL HABIGER: Thank you for your  
3 input.

4 Next, William Chambers?

5 WILLIAM CHAMBERS: Good morning.

6 GENERAL HABIGER: Good morning, sir.

7 WILLIAM CHAMBERS: I am William  
8 Chambers. I'm representing myself.

9 I have more than a half-century of  
10 experience in national defense; as a combat veteran of  
11 the European Theater in World War II, a retired Los  
12 Alamos physicist and technical manager in the  
13 nuclear-weapons program, and a retired consultant to  
14 the Department of Energy and its national laboratories  
15 and contractors in nuclear-weapon-related activities.

16 I'm going to make a personal statement;  
17 but before I do, I'd like to say, as a current member  
18 of the board of the New Mexico Academy of Sciences, I  
19 would first like to present a brief statement prepared  
20 recently in the context of these hearings:

21 "The New Mexico Academy of Sciences  
22 believes that there is inadequate scientific basis  
23 supporting the efficacy and reliability of polygraph  
24 testing. The incidence of false-positive outcomes and  
25 the resulting harm to individuals make polygraph

0074

1 testing an unfair and inappropriate tool in a free  
2 society," end quote.

3           Now I would like to present some of  
4 my own personal views, very personal views, on this  
5 matter, emphasizing that these are my own opinions, no  
6 doubt highly subjective, but based on considerable  
7 experience.

8           From 1950 to 1998, I held a Q clearance  
9 from the Atomic Energy Commission and its successors,  
10 and I continuously exercised the responsibilities  
11 associated with that implicit statement of trust.

12           In fact, the standard procedures for  
13 maintaining that clearance included -- and I'm sure  
14 still include -- a periodic investigation and review of  
15 my personal history by the appropriate government  
16 agencies, to ensure that the trust was still warranted.

17           I endorsed those procedures completely,  
18 and considered the trust to be, in part, an affirmation  
19 of my contributions to my country.

20           On the contrary, it now appears that I  
21 and my former colleagues are to be considered in a  
22 different class of citizens, the class that stands  
23 suspected of espionage for some unspecified enemy  
24 through some unspecified acts.

25           Allegedly, we can clear ourselves of

1 this charge by voluntarily submitting to an admittedly  
2 flawed polygraph device, and by completing a test  
3 successfully, as defined by the test administrators.

4           Personally, I object to being so  
5 characterized.

6           I object to the fact that the class of  
7 people selected for this dubious honor are just those  
8 previously considered by rigorous investigation to be  
9 the most trustworthy in the field.

10           In the more distant past, our work was  
11 typically born classified and, if declassified at all,  
12 was done so under the rules we helped develop.

13           In more recent times, under pressure  
14 from the Congress and various activists, enough  
15 weapon-related information has been declassified and  
16 disseminated, by DOE administrators, parenthetically,  
17 not by the weapon-design community, to provide on the  
18 Internet a surprisingly complete description of the  
19 entire U.S. nuclear-weapon design, development and  
20 testing program; both test devices and stockpile  
21 weapons.

22           I also object to the penalties already  
23 paid in national-security affairs since the inception  
24 of the polygraph proposal: Penalties in lost time and  
25 money, penalties in personnel confusion and lowered

1 morale, penalties incurred by the departure of key  
2 personnel.

3 I object to the far more serious  
4 penalties to be attached to the nuclear-weapons program  
5 in the future, when such a test may be applied to any  
6 who choose to enter the field.

7 Maintaining a national capability is  
8 already made more difficult, complex, by test-ban and  
9 budgetary considerations. Over time, the inability to  
10 attract the most competent people to the field because  
11 of the imposition of questionable loyalty tests will  
12 surely lead to a decaying technology in an uncertain  
13 future.

14 Finally, I object because I would  
15 expect that such a program would soon generate a new  
16 and rather large class of people, those who have  
17 unjustly failed the test, and those who have  
18 justifiably refused to participate.

19 I wish to place myself among those who  
20 refuse unless under force of court order, although it  
21 is unlikely that a retiree like me would even be asked  
22 to participate.

23 And, although I am clearly not a lawyer,  
24 a casual perusal of the U.S. Constitution suggests that  
25 there is not a court in the land that would issue such

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1 a court order.

2 Thank you for the opportunity to be

3 heard.

4 GENERAL HABIGER: Thank you, sir.

5 (Applause)

6 GENERAL HABIGER: Our next speaker is

7 Susan Seestrom.

8 SUSAN SEESTROM: My name is Susan

9 Seestrom. I'm representing myself.

10 I don't want to argue here today the

11 scientific merits of the polygraph. My assumption is

12 that we will have a polygraph program.

13 I am a laboratory manager and

14 scientist. I feel it is my obligation to look at the

15 proposed rules with respect to how they protect the

16 rights of my employees.

17 The rules contain language about

18 "adverse personnel actions," with the implication

19 that to deny an individual access to information or

20 involvement in activities is not an adverse personnel

21 action.

22 It is important to point out that this

23 laboratory has succeeded in helping keep the nation

24 safe for the last 50 years because of the fact that

25 first-rate scientists and engineers have devoted their

1 careers, scientific careers, to national security.

2           Depriving them of individual access to  
3 information is every bit as serious to them as  
4 depriving them of their job.

5           From this point of view, the most  
6 glaring omission in the proposed rules is the lack of  
7 any grievance process.

8           It is essential there be a formal  
9 grievance process, including both outcome and procedure  
10 of the exam. The grievance process should involve LANL  
11 peers and managers, UC representatives, and independent  
12 polygraph professionals.

13           Also missing are rules governing the  
14 length of the exam. In Section 709.13, leaving before  
15 the end of exam is regarded as the same as refusing to  
16 take it. Therefore, there need to be rules concerning  
17 the length.

18           Employees should also be protected by  
19 allowing legal counsel to be present during the exam.

20           Finally, I strongly urge DOE to  
21 reconsider use of polygraph exams at its national labs.

22           The nature of the enterprise in which  
23 we are engaged depends critically on having trust in  
24 the scientists and engineers who have devoted their  
25 careers to protect the nation.

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1           This trust extends not only to the  
2 belief that they will not commit espionage, but it also  
3 includes relying on their technical and scientific  
4 judgment in certifying the safety and reliability of  
5 the nation's stockpile. This is not a factory, or an  
6 army base.

7           As a parent, I have learned that  
8 children will live up, or down, to our expectations.  
9 I therefore have a serious concern that installing a  
10 system that's based on a fundamental lack of trust for  
11 our employees will only do damage to our national  
12 security.

13           Thank you.

14           GENERAL HABIGER: Thank you, ma'am.

15           (Applause)

16           GENERAL HABIGER: Eric Nelson?

17           ERIC NELSON: Gentlemen, in cooperation  
18 with DOE, Los Alamos has made a commitment to strive  
19 for zero security and safeguard violations.

20           This commitment is part of LANL's "six  
21 zeros" policy, which includes similar goals for safety,  
22 environmental and ethics incidents.

23           It is an excellent policy, which  
24 recognizes that perfection cannot be obtained  
25 instantly; that training, practice and continuing

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1 education are the tools to achieve these goals; and  
2 that disciplinary action is a last resort for those  
3 individuals that fundamentally refuse to cooperate.

4           Unfortunately, recent actions by DOE and  
5 lab management have turned LANL's laudable "six zeros"  
6 policy into a policy of zero credibility.

7           For example, two of my colleagues  
8 have cooperated with recent DOE and LANL security  
9 investigations concerning apparently minor infractions.

10           Despite their cooperation, they were  
11 harassed, threatened, and intimidated by DOE and Los  
12 Alamos. You revoked both of their clearances.

13           Distinguished, productive careers  
14 -- careers important to our nation's security and  
15 prosperity -- have been ruined unfairly, unnecessarily,  
16 and to our nation's detriment.

17           I wish I could be more specific about  
18 these cases, but I cannot. When the time arrives to  
19 share with the staff lessons learned from security  
20 incidents involving our loyal colleagues, we are told  
21 we have no need to know.

22           Imagine that. We, the individuals most  
23 responsible for improving and maintaining security,  
24 including avoidance of past mistakes, have no need to  
25 know!



1           This by itself is another glaring  
2 example of LANL's and DOE's incredibility. Not only  
3 are we injured and insulted, but we are also rendered  
4 ineffective in reducing the security incidents for  
5 which we are responsible.

6           This shameless behavior must be  
7 rectified before security policies and practice can  
8 have a net positive impact on individual behavior.

9           Allow me to suggest how this shameless  
10 behavior adversely affects the proposed polygraph  
11 examinations.

12           Numerous individuals have good cause to  
13 doubt statements that DOE is only looking for spies and  
14 saboteurs, that admissions of stupid mistakes will not  
15 be held against polygraph subjects, and that DOE and  
16 LANL will be equitable in its subsequent treatment of  
17 employees.

18           Many of these individuals will be cited  
19 for unresolved issues in the polygraph examination. At  
20 this point, such an individual will likely cooperate  
21 only superficially with the polygraph examiner's  
22 attempt to resolve the unresolved issues.

23           The examiner can threaten dire  
24 consequences for lack of significant cooperation, but  
25 the individual is no longer motivated to participate.

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1 He or she is damned regardless of any further  
2 cooperation.

3           It is likely better to be cited  
4 for unresolved issues and the superficial charges  
5 manufactured during the subsequent investigation than  
6 to face certain prosecution for admissions made in an  
7 attempt to appease the polygraph examiner.

8           In this situation, both parties lose.  
9 The concerned, but loyal and trustworthy, individual is  
10 merely trying to minimize his or her losses. The DOE  
11 loses the talent and experience of the individual. The  
12 DOE further erodes its own credibility.

13           And finally, the DOE likely knows no  
14 more after the polygraph examination than it did  
15 before.

16           This situation strikes at the heart  
17 of the proposed polygraph tests. You are depending on  
18 the cooperation of trustworthy and loyal individuals in  
19 order to ferret out a few spies and saboteurs.

20           In the best of circumstances,  
21 this is merely a suspect strategy. Under current  
22 circumstances it is simply untenable, because you  
23 will be burdened with concerned individuals, those  
24 individuals who consider DOE untrustworthy, not  
25 themselves.

1 I have no confidence that you will be  
2 able to identify an actual spy in their midst.

3 I am confident that you will cause  
4 extensive and irreparable damage to the nation's common  
5 defense and security.

6 There are alternatives. It is possible  
7 for both DOE and its various stakeholders to win.

8 Regardless of the decision on  
9 polygraphs, DOE should abandon its adversarial attitude  
10 toward the national labs and its employees; adopt an  
11 open and candid atmosphere for discussion of security  
12 issues; refrain from seeking disciplinary action for  
13 every violation or infraction; turn them instead into  
14 lessons and reminders for the rest of us, the rest of  
15 us, who do have a need to know.

16 In the event that you foolishly and  
17 irresponsibly pursue these polygraph tests to the  
18 detriment of our nation's security, I suggest the  
19 following additions to Section 709.15.

20 First, DOE will not seek disciplinary  
21 action for admissions of security infractions or minor  
22 security violations during the polygraph examination.

23 Second, DOE will compile such admissions  
24 and combine them with other sources such as security  
25 audits in order to educate the authorized workforce

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1 about the frequency, severity and manner of various  
2 security infractions and violations.

3           And third, the DOE will use such  
4 admissions only as a basis for developing effective  
5 strategies to mitigate the risk of future security  
6 incidence.

7           Gentlemen, thank you for your attention.

8           GENERAL HABIGER: I appreciate your  
9 input.

10           (Applause)

11           GENERAL HABIGER: Next speaker, Bill  
12 Beyer.

13           BILL BEYER: Thank you, Mr. Chairman.  
14 I am Bill Beyer, and I represent myself.

15           I wrote my talk last night without  
16 benefit of some of the numbers that, I think it was  
17 Andrew Ryan, gave this morning; and I must say I was  
18 very, almost shocked by some of those numbers.

19           If I read right, he was talking about 80  
20 percent correctness, but that's 20 percent error; and  
21 if you're looking at 5,000 people, that's 1,000 people  
22 you're getting in trouble with, over this polygraph.

23           I probably misinterpreted things, and  
24 I'll appreciate seeing your material.

25           I've been a member of the Laboratory for

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1 forty years; thirty years as a staff member, ten years  
2 retired, but active as a staff member. My wife worked  
3 for the Laboratory for thirty years.

4           So between us, we have given seventy  
5 years of devotion to this Laboratory.

6           I've never seen anything in this forty  
7 years as disruptive of Laboratory work as the last six  
8 months or so have been; and the proposed polygraph  
9 tests --

10           (Applause)

11           One wonders, we're all wondering,  
12 how he or she will fare, and we're wondering how our  
13 colleagues will fare; and we wonder when this is all  
14 going to end.

15           I oppose the proposed polygraphs  
16 in our laboratory, in our weapons laboratories. I'm  
17 not against them for certain uses in investigations.  
18 There, I think they're useful; but I oppose them for  
19 mass screening.

20           Let me start with a real spy, Ames,  
21 a man who betrayed his country in the worst possible  
22 way, and caused the execution of at least ten American  
23 agents in the Soviet Union by giving the Soviets their  
24 identities.

25           He was moved solely by greed. He was

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1 paid at least a million dollars by the Soviets for this  
2 work.

3           So I guess the first question you ought  
4 to ask a person, an examinee, is, "Are you greedy?"

5           (Laughter; applause)

6           Ames, I understand -- and this might  
7 be wrong, but this is what I'm given to understand by  
8 people that are in the know -- passed his polygraph  
9 test with the CIA, because he was well-trained by the  
10 Soviets to pass a polygraph test.

11           For example, if he was asked if he ever  
12 betrayed his country, he would translate in his mind  
13 "country" into "Soviet Union," and then answered the  
14 question truthfully.

15           (Laughter)

16           There are other ways of defeating  
17 the questions, such as using certain drugs before the  
18 examination. I understand there are physical movements  
19 you can make; hypnosis; prior practice.

20           On the other side, how about the  
21 innocent who are found on the polygraph to be  
22 deceptive?

23           I can well imagine one of our staff,  
24 like Bill Chambers, having a long distinguished record  
25 of service to his country in war and peace; if he were

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1 asked did he betray his country, I can imagine somebody  
2 like him becoming so angry that they would fail the  
3 question.

4 My father was a decorated officer, who  
5 served in the South Pacific in World War II. He was  
6 also a man with a terrible temper; and I think, with  
7 that temper of his, he would have failed a polygraph  
8 exam if they ever asked him a question about his  
9 loyalty.

10 I can imagine, but I don't know, that  
11 that anger may have caused a certain highly respected  
12 scientist to fail his polygraph test. I know that our  
13 former Director of Counterintelligence has said that  
14 there's not a shred of evidence to show any disloyalty  
15 there.

16 Other sources with false positives are  
17 surprised at the questions being asked, and concerned  
18 because he or she may have been thought guilty.

19 I don't know; how am I doing on time?

20 GENERAL HABIGER: Sir, I'll tell you  
21 you're over the time; but for you, sir --

22 BILL BEYER: All right.

23 So, I've already mentioned the  
24 possibility of having a large number of incorrect or  
25 failing polygraph tests, and the result which you would

1 have if you had a mass examination, using the polygraph  
2 for mass examination.

3           Finally, we seem to be going back to the  
4 bad old days of McCarthy. In the current atmosphere,  
5 we've had two first-class postdoctoral candidates teed  
6 off because of this atmosphere.

7           One of the victims in the McCarthy era  
8 was one of our first and one of our best directors, J.  
9 Robert Oppenheimer. I doubt if the nation would have  
10 obtained the bomb in World War II without his  
11 leadership.

12           But because of the atmosphere of  
13 McCarthy at the time, Oppenheimer lost his clearance  
14 and his reputation. Now we know that he was an  
15 innocent man who was found guilty at the time.

16           So, I apologize for being personal, but  
17 that's the nature of polygraphs.

18           (Laughter; applause)

19           GENERAL HABIGER: Thank you, sir.

20           Robert Kares?

21           ROBERT KARES: Good morning.

22           My name is Robert Kares; and while I am  
23 speaking here today as a private citizen, I am also a  
24 physicist in the weapons-science community here at Los  
25 Alamos National Laboratory, and so I have a direct



1 personal interest in the proposed polygraph-examination  
2 rules which are the subject of today's hearing.

3           The recent Notice of Proposed Rulemaking  
4 which appeared in Volume 64, No. 159 of the Federal  
5 Register, dated August 18, 1999, outlines the rules for  
6 an unprecedented program of counterintelligence-scope  
7 polygraph-testing of thousands of DOE federal and  
8 contractor employees.

9           On Page 45063 of that Federal Register  
10 volume, and I'm quoting here from the text of that  
11 volume, "DOE invites members of the public to comment  
12 on the balance it has struck in today's proposal  
13 between legitimate national-security interests and  
14 regulatory limitations to protect employees from  
15 inappropriate or imprudent use of polygraphic  
16 examinations and the results of such examinations."

17           That is indeed the central issue, since  
18 it is apparent from a careful reading of the proposed  
19 rules that affected employees have virtually no  
20 protections from inappropriate or imprudent use of  
21 polygraph test results under the rules as they are  
22 written.

23           I'd like to first consider Section  
24 709.15 of the proposed regulations governing how DOE  
25 may use polygraph results.

1           In Paragraph 1 it is explained that if  
2 after a second polygraph examination unresolved issues  
3 still remain, and I quote here again from the text,  
4 "DOE must undertake a comprehensive investigation of  
5 the individual using the polygraph as an investigative  
6 lead," unquote.

7           However, in the following paragraph,  
8 2, we then read that, and I again quote from the text,  
9 "After completion of the polygraph examinations, the  
10 Department will conduct an eligibility evaluation that  
11 considers polygraph examination results, the  
12 individual's personnel security file, and other  
13 pertinent information."

14           In other words, it would appear from  
15 this proposed wording that the eligibility evaluation  
16 may proceed before results from any new investigations  
17 are obtained, and a security clearance may be  
18 terminated as a result.

19           This demonstrates that under the  
20 proposed wording DOE may indeed terminate a clearance  
21 on the basis of polygraph test results alone, despite  
22 the assurances of the Secretary.

23           This point becomes even clearer in  
24 Section 709.25.

25           In Paragraph 1, we read that,

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1 and I quote, "DOE believes that, while polygraph  
2 examinations are a useful tool, they should not  
3 constitute the sole basis for taking any action against  
4 an individual" -- against any individual -- "except  
5 when the Secretary or the Secretary's designee  
6 determines that permitting the individual continued  
7 access to protected information would pose an  
8 unacceptable risk."

9           In other words, polygraph results  
10 should not form the sole basis for taking action  
11 against someone unless the Secretary of Energy feels  
12 like it!

13           (Applause)

14           Given the fact that the Secretary is a  
15 political appointee subject to political pressures, the  
16 opportunities for abuses here are obvious; and I think  
17 we've already seen some.

18           So it would appear from the proposed  
19 wording that it is indeed possible for an individual's  
20 clearance to be terminated solely on the basis of a  
21 polygraph-examination result.

22           This circumstance, combined with the  
23 fact that the meaning of the key phrase "unresolved  
24 issues" is never clearly defined, leads to a situation  
25 in which the polygraph may easily be used as a weapon

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1 against DOE federal and contractor employees if they  
2 become troublesome or unpopular with the Secretary  
3 because of their views.

4           It is clear that the rules as proposed  
5 afford employees little or no protection against  
6 inappropriate or imprudent use of polygraph test  
7 results.

8           This fact, combined with scientifically  
9 well-known unreliability and high false-positive rates  
10 for polygraph testing as it applies in large-scale  
11 screening application, is very deeply troubling to all  
12 of us in the weapons-science community who may have to  
13 undergo this procedure or risk losing our jobs.

14           I'd like to close on a personal note,  
15 since I find myself in a somewhat unusual situation.

16           Last week I was awarded a Distinguished  
17 Performance Award from the Laboratory for my work in  
18 the design and construction of the Data Visualization  
19 SuperCorridor, a key element of the Accelerated  
20 Strategic Computing Initiative, DOE's program to  
21 replace actual nuclear testing with computer  
22 simulation.

23           I helped to make this project the  
24 success that it is with a lot of hard work, and a very  
25 deep personal commitment.

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1 I came to work every day feeling good  
2 because I was doing something that really contributed  
3 to the defense of the nation, and to protecting the  
4 rights of all Americans, including the right not to be  
5 hauled in and interrogated like a criminal without any  
6 evidence of wrongdoing.

7 (Applause)

8 Now I discover that I was protecting the  
9 rights of all Americans except my own rights.

10 So now I find myself in the strange  
11 position of being recognized by Los Alamos for my  
12 contributions to the national defense, while at the  
13 same time wondering just what's going to happen to my  
14 career.

15 I don't believe that the proposed  
16 regulations provide me with any real measure of  
17 protection against being falsely accused and destroyed  
18 at the whim of some unknown polygraph examiner applying  
19 a technology which is about as scientific as dowsing  
20 for water with a willow stick.

21 (Applause)

22 So I am seriously considering leaving  
23 the weapons program, and finding employment somewhere  
24 else, someplace where I can again expect to enjoy the  
25 complete rights guaranteed for every American under the

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1 Fourth Amendment.

2 I'm a loyal and talented individual, as  
3 are all the other honest and loyal Americans who work  
4 here at Los Alamos to protect the rights of all  
5 American citizens.

6 You'll miss us when we're gone.

7 (Applause)

8 GENERAL HABIGER: Thank you.

9 James Theiler?

10 JAMES THEILER: Good morning, sir.

11 My name is James Theiler. I'm  
12 representing myself, and I'm one of those arrogant  
13 scientists you keep reading about in all those reports.

14 I came to Los Alamos nine years ago as a  
15 post-doctoral. I'm forty years old now, and I hope to  
16 be at Los Alamos for twenty years.

17 For me, the long-term health of  
18 Los Alamos is personally concerning, but I'm worried  
19 because I don't have a sense that this concern is  
20 shared by the ambitious politicians for whom Los Alamos  
21 is a sound bite or a steppingstone.

22 I'm afraid that wholesale polygraph  
23 testing will injure and in the long run wreck the  
24 national laboratories. This concerns me as a citizen,  
25 and concerns me as an employee.

1           The scientific reputation of this  
2 laboratory is one of the main reasons I came here, and  
3 the scientific excellence of my colleagues is one of  
4 the main reasons I'd like to stay.

5           I'm proud of the science that we do  
6 here, and I'm proud because the work we do here serves  
7 the security and well-being of our nation; but if this  
8 work becomes second-rate, then the security and  
9 wellbeing of this nation will not be served.

10          I do not share the DOE's confidence  
11 that polygraph examination will be perceived as fair  
12 by potential recruits whose other options include  
13 positions in academia and industry where they will  
14 be trusted and where they will be respected.

15          (Applause)

16          You know, I read through the Federal  
17 Register, and I'm also concerned about the so-called  
18 exculpatory polygraph examinations.

19          The Federal Register says, "Use  
20 of the polygraph examination when an individual  
21 requests one as a means of exculpation in order to  
22 resolve counterintelligence or investigation security  
23 issues hastens DOE's prompt resolution of such issues."

24          Now, I can almost understand the  
25 argument, because indiscriminate application of an

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1 unreliable tool is still useful on the odd chance  
2 because it might actually ferret out a spy; never mind  
3 that it has never done before.

4           But if a spy is identified by legitimate  
5 investigation, it seems a little irresponsible to let  
6 him off the hook just because he can fool a polygraph.

7           (Applause)

8           I don't know if the DOE is using  
9 polygraphs because it's serious about catching spies,  
10 or just too lazy to conduct honest investigations.

11           (Applause)

12           The evidence indicates that polygraphs  
13 are ineffective and that polygraphs are unreliable.

14           But on a personal note, I also believe  
15 that polygraphs are immoral. They take invasion of  
16 privacy to an entirely new level. It's one thing to  
17 look into my bank account, to search my briefcase, to  
18 scan my computer files, and to interview with everybody  
19 I've known in the last ten years; but it's another  
20 thing to strap me up to a machine which claims to be  
21 able -- and I'm quoting from the DOE's own briefing --  
22 to take a picture of my emotions.

23           I love working at Los Alamos. I love  
24 the science, the community, the public schools, the  
25 mountains.



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1 I even like Santa Fe!

2 (Laughter)

3 But if I refuse to take a polygraph, if  
4 I refuse to be a party to what I consider a grotesque  
5 invasion of privacy, then I may not be able to stay  
6 here.

7 So for me, this is a serious risk, but  
8 it's a risk that I'm seriously considering; seriously.

9 What the DOE should consider is this:  
10 If I find polygraphs so offensive, but I'm willing to  
11 risk the position that it has taken a decade for me to  
12 establish, how can you imagine that to the idealistic  
13 young recruits these tests will be perceived as fair?

14 How can you imagine that the best and  
15 the brightest will not be deterred by this  
16 short-sighted policy?

17 Thank you.

18 GENERAL HABIGER: Thank you.

19 (Applause)

20 GENERAL HABIGER: Mr. Randy Baker?

21 RANDY BAKER: Good morning, and thank  
22 you.

23 My name is Randy Baker, and I represent  
24 myself. I have a head cold, so you have to excuse my  
25 voice.

1           A constant factor throughout the history  
2 of mankind has been the desire to seek out and identify  
3 the unknown enemy. Various methods have been used for  
4 this purpose, from the reading of entrails in the  
5 ancient Greek and Roman civilizations to the Salem  
6 witch trials in 17th-century America.

7           Today, we are faced with the modern  
8 equivalent of those practices; the polygraph exam as a  
9 mass screening device.

10           While today we scoff at the past  
11 practice of seeking truth from entrails, is the modern  
12 polygraph exam any more reliable when used as described  
13 in the proposed rule?

14           In the rule's background section, the  
15 statement is made that "DOE is aware of no scientific  
16 studies that establish that polygraph examination  
17 results are unreliable for use as an investigative  
18 tool."

19           I would phrase the question a different  
20 way: Where are the scientific studies that establish  
21 that mass polygraph examinations are reliable for use  
22 as a mass screening tool? DOE references no such  
23 studies, because none exist.

24           As a national laboratory, the claims  
25 we make are subject to outside scrutiny and the test of

1 reproducibility. This is the basis for our credibility  
2 with the DOE and the public.

3           Yet DOE expects us to submit to a  
4 program that has never undergone such scrutiny, and  
5 would most likely fail if it were. Thus, it is not  
6 surprising that DOE's hopes that their actions, and I  
7 quote here again, "will be perceived as fair by most  
8 potential employees" have not been borne out.

9           As a ten-year employee of this  
10 laboratory, I recognize the importance of protecting  
11 classified information. Sadly, the squandering of  
12 public money on misguided tools such as mass polygraph  
13 exams will divert resources from efforts that might  
14 make a real difference in improving security, such as  
15 more in-depth background investigations and improved  
16 cybersecurity.

17           Instead of wasting these resources,  
18 I ask that, pending investigation by an independent  
19 body such as the National Academy of Sciences, into the  
20 reliability of the polygraph as a mass screening  
21 device, the proposed rule be held in abeyance.

22           However, as a realist I recognize  
23 that given the current state of demagoguery in the U.S.  
24 Congress, and the resultant scurrying for political  
25 cover by the DOE, polygraph exams will likely be

1 imposed regardless of their validity.

2           The use of the polygraph exam as  
3 a mass screening device will undoubtedly result in the  
4 labeling of otherwise loyal Americans as deceptive.

5           While the director of this laboratory  
6 has stated that every effort will be made to place  
7 those so labeled in non-sensitive positions, the  
8 reality is that at Los Alamos such positions are  
9 almost non-existent.

10           As a nuclear engineer, I did a quick  
11 search of the available jobs at this laboratory that  
12 contain the word "nuclear." With one exception, they  
13 all required a Q clearance.

14           Thus, the denial of access to  
15 classified information is tantamount to the destruction  
16 of a career at this laboratory for most, if not all, of  
17 the people being screened.

18           (Applause)

19           Yet proposed Rule 709.25(a) permits this  
20 denial based solely on the result of a polygraph exam,  
21 even when all other investigations result in no  
22 evidence of questionable loyalty or actions.

23           If we must resort to the reading  
24 of entrails, I ask that we also do not, at least,  
25 resort to the burning of witches; and that the proposed

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1 rule be rewritten to eliminate any punitive or adverse  
2 action based solely upon a polygraph exam.

3 Thank you.

4 GENERAL HABIGER: Thank you.

5 (Applause)

6 GENERAL HABIGER: Next speaker is David  
7 Sigeti.

8 Go ahead, sir.

9 DAVID SIGETI: I'm David Sigeti; I'm  
10 representing myself. I'm a scientist employed in  
11 X Division at the Laboratory.

12 I want to speak to you today about the  
13 negative consequences for national security that will  
14 follow from the institution of widespread polygraph  
15 examinations at the nuclear-weapons laboratories.

16 As other speakers have discussed,  
17 polygraph examinations will make the problems that the  
18 laboratories currently have with recruitment and  
19 retention of first-rate scientists much worse.

20 I believe that the Department of Energy  
21 is seriously underestimating the depth of opposition to  
22 polygraph examinations that exists among scientists at  
23 Los Alamos, and thus is seriously underestimating the  
24 negative consequences that polygraph examinations will  
25 have on recruiting and retention.

1           The fact is that the open opposition to  
2 polygraph examinations that you have seen is just the  
3 tip of the iceberg. The open opponents are by no means  
4 the employees who are most opposed to polygraph  
5 examinations, or most distrusting of the entire  
6 process.

7           Those who are most distrusting will  
8 never come forward in open criticism of this proposal.  
9 They are convinced that to do so would be to set  
10 themselves up as targets for intense and early  
11 interrogations.

12           They believe that these interrogations  
13 are likely to lead to losses of clearances and jobs due  
14 to false accusations made by interrogators who are  
15 primed to be suspicious of those who question the  
16 validity of their methods.

17           I am aware of these sentiments because,  
18 having been open about my concerns about polygraph  
19 examinations, many staff members have come to me and  
20 told me both their agreement with my concerns and that  
21 they will not say so publicly for fear of retaliation.

22           Please note that I am hearing this  
23 from top-notch scientists, whose work is vital to the  
24 laboratory's mission, and who can and will go  
25 elsewhere.

1           You will never hear a peep from these  
2 people about polygraph examinations. They will simply  
3 leave, taking their vital skills with them, and leaving  
4 the nation less secure when it proves impossible to  
5 replace them with scientists of equal caliber.

6           I want to give just one example of how  
7 serious this problem is.

8           I was talking recently with a  
9 Lab scientist who has an international reputation  
10 in his field. His area of expertise is vital to the  
11 Laboratory's mission, and his skills make him extremely  
12 attractive to other employers.

13           He told me that he believed that  
14 polygraph examinations would destroy the Laboratory as  
15 a scientific institution, and that he expected he would  
16 leave the Laboratory as a result.

17           When I suggested that he voice these  
18 concerns, he told me that he would not dream of doing  
19 so, because he was convinced that the entire process of  
20 soliciting comment from personnel at the Laboratory,  
21 what we're participating in right here, was intended to  
22 identify individuals who would be targeted for  
23 retaliation.

24           Now, obviously I don't agree with his  
25 suspicions on the comment process; I wouldn't be here

1 today if I did.

2           The point I want to make is that this  
3 scientist's comments show both the depth of distrust  
4 that scientists at the Laboratory have for polygraph  
5 examinations, and the invisibility of the full depth of  
6 this distrust to DOE.

7           I strongly urge the Department of Energy  
8 to re-evaluate the effects that this level of distrust  
9 is likely to have on recruitment and retention if  
10 widespread polygraph examinations are instituted.

11           For this reason, and for many other  
12 reasons that you have heard from other speakers, I urge  
13 DOE to drop its plans for widespread polygraph  
14 examinations.

15           If, however, these plans go forward, I  
16 urge DOE to adopt the following suggestions in the hope  
17 that the negative consequences for recruitment and  
18 retention can be reduced.

19           First, DOE should change the current  
20 proposal to include an unequivocal statement to the  
21 effect that no one's security clearance or access to  
22 classified information will be revoked based solely on  
23 the judgment of polygraphers that the individual is  
24 deceptive.

25           The current proposal contains an



1 all-purpose escape clause, that leads everyone who  
2 reads it to conclude that DOE is making no real  
3 commitment to protect individuals from the effects of  
4 false-positive results of polygraph examinations.

5           Second, DOE should provide a detailed,  
6 complete description of the examination process. This  
7 should include an identification of any test results  
8 that are truly objective, that is, any numerical  
9 results that do not depend on the judgment of the  
10 polygrapher.

11           DOE should provide a tabulation of all  
12 these results, without, of course, identifying the  
13 individuals involved.

14           The tabulated results should include an  
15 indication of whether the subject was judged deceptive,  
16 whether there were subsequent tests, and what the  
17 results of the subsequent tests were.

18           DOE's willingness to provide this  
19 information will help to convince scientists at the  
20 laboratories and elsewhere that it is willing to  
21 present its interrogation methods for open,  
22 scientific scrutiny.

23           Finally, the Secretary of Energy should  
24 commission an evaluation of DOE's polygraphy program by  
25 the National Academy of Sciences.

1           The NAS should examine the full  
2 range of issues involved; including the validity of the  
3 polygraph as a lie detector, the value of polygraphs in  
4 screening tests, the value of polygraph examinations in  
5 detecting and deterring espionage, and the negative  
6 effects of polygraph tests on national security due to  
7 effects on recruitment and retention of qualified  
8 personnel.

9           Thank you for your time.

10          GENERAL HABIGER: Thank you, sir.

11          (Applause)

12          GENERAL HABIGER: John Ambrosiano?

13          JOHN AMBROSIANO: My name is John  
14 Ambrosiano. I'm a computer engineer, representing  
15 myself, so please don't fire me or my supervisors.

16          (Laughter)

17          I have a brief statement. I want to  
18 thank the Department of Energy for the opportunity to  
19 speak here today.

20          Other speakers will offer various  
21 objections to the proposal being addressed here.

22          They will say that polygraph screening  
23 is unscientific and unreliable. They will talk about  
24 the unfairness of calling into question without  
25 probable cause the loyalty of dedicated Americans who

1 have been in positions of the highest trust for  
2 decades.

3           You will hear them warn about the  
4 damage that this policy is likely to inflict on the  
5 reputations of our national laboratories as places  
6 where our nation's brightest stars can make substantive  
7 contributions to both science and national security.

8           You will hear discussions of how all  
9 this is more likely to decrease security rather than  
10 enhance it.

11           I believe all of these arguments, and  
12 echo them, but I want to say something else.

13           As a scientist, I know I'm often  
14 focused on the technical merits of any argument.  
15 Technical people make judgments about ideas based on  
16 whether they believe it's a smart idea or stupid idea.

17           But today I want to be thinking as a  
18 citizen, and to argue against this proposal, because it  
19 is wrong.

20           Picture this: Unhappy about American  
21 foreign policies, including those towards China, driven  
22 by fear of foreigners, and motivated in some cases by  
23 political opportunism, members of our government have  
24 launched a full-scale probe to uncover espionage and  
25 subversion.

1           Using scare tactics based on  
2 the thinnest evidence, and citing national-security  
3 imperatives, they and their subordinates have created  
4 an atmosphere of fear in which government employees are  
5 automatically under suspicion.

6           Once accused, employees are required to  
7 prove their innocence; and if they cannot do so, they  
8 face the destruction of their careers and reputations.

9           Anyone who is not proven innocent  
10 by this is considered to be at risk to our national  
11 security; and, once branded as a potential traitor, may  
12 find that opportunities for employment are effectively  
13 gone. A climate of fear and distrust, lasting years,  
14 is the result.

15           If this scenario sounds bad, it is;  
16 because I've just described the McCarthy era.

17           When Lab employees in their frustration  
18 and dismay call the process you have proposed here  
19 McCarthyesque, it sounds like hype, or a cliché;  
20 but it is not. The analogy is quite strong.

21           I was only a child when the McCarthy  
22 hearings took place, and could not understand them at  
23 the time; but we all learned a collective lesson about  
24 that period, and we learned that it was wrong.

25           The McCarthy hearings have been called

1 witch hunts. Nobody conducting those hearings at the  
2 time thought of themselves as witch hunters. They did  
3 not see the parallel between accusations of demonic  
4 possession by hysterical young women and accusations of  
5 communist subversion, or the inference of guilt by  
6 association; but we see it clearly now.

7           It's likely that none of you and none  
8 of the people involved in this process see the analogy  
9 between McCarthy's inquisitors and a polygraph examiner  
10 making judgments about a subject's loyalty to his  
11 country based on the wiggle of a pen or a blip on a  
12 screen; but the parallel is there.

13           We know in our American souls that the  
14 Salem trials, the McCarthy hearings, and these proposed  
15 polygraph interrogations, are all wrong.

16           (Applause)

17           If you think this is a stretch or  
18 an overreaction, I can tell you that the process of  
19 dehumanizing our colleagues and the willing suspension  
20 of our most cherished American notions of justice has  
21 already begun.

22           The other day, a colleague of mine  
23 earnestly asked, "Isn't this a good thing, really?  
24 I mean, to restore public confidence in the Labs,  
25 shouldn't we prove our loyalty by taking the

1 polygraph?"

2 I pointed out that not since the  
3 McCarthy era have Americans been asked to take loyalty  
4 oaths.

5 I heard other colleagues say, believing  
6 the figures they've been told, that if people are hurt  
7 in this process it will only be a few people, and it  
8 will satisfy the public.

9 We call this human sacrifice.

10 (Laughter; applause)

11 And we know that it too is very wrong.

12 When pressed about these issues, DOE and  
13 Lab managers have eventually said, "There's nothing we  
14 can do; this is an act of Congress."

15 The McCarthy hearings were also an act  
16 of Congress. As Americans, this does not excuse us  
17 from our responsibility to say and do what is right.

18 And I just wanted to follow up briefly  
19 with a remark.

20 I intended that to be a pretty speech;  
21 I thought it was fairly pretty.

22 But, it was really intended to make a  
23 point; and the point is that when Americans are asked  
24 to give up their civil liberties they don't think of it  
25 as uncomfortable or inconvenient, they think of it as

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1 wrong. They think of it as evil.

2           And they're willing to do it, provided  
3 you can demonstrate that a far greater evil will be  
4 prevented in the process.

5           You have not demonstrated that.

6           I want to thank you very much for  
7 bringing the polygraph experts that you have on hand  
8 with you, to help dispel our confusion about  
9 polygraphs --

10           (Laughter)

11           -- but this is like getting research on  
12 the health effects of tobacco from R. J. Reynolds.

13           (Laughter)

14           I won't belabor the point that people  
15 have already raised in the scientific community very  
16 thoroughly on this.

17           I also want to echo the very reasonable  
18 suggestion, made many times, that you commission the  
19 National Academy of Sciences to recommend a scientific  
20 opinion on this. If you do not, I can only wonder what  
21 you may be afraid of.

22           And then, finally, I want to extend a  
23 compliment to the Secretary. I heard you took the  
24 polygraph exam in the past.

25           I honestly and sincerely believe

1 that that was a very commendable step on his part;  
2 it demonstrates his commitment as a leader. But as a  
3 scientist, I also know that it's one piece of anecdotal  
4 evidence in a very large non-scientific study.

5           So, instead of saying, hey, what a  
6 guy, I think of it as a stunt; and I think, gee, the  
7 Secretary just dived off the roof into a big puddle of  
8 water and lived. What a guy!

9           Finally, I wanted to offer my  
10 condolences to you, General, because I know you haven't  
11 had dealings with the Laboratory before, and probably  
12 didn't know what to expect.

13           I don't know what you expected in  
14 the beginning, but I hope you realize by now that this  
15 laboratory and its sister laboratories did not develop  
16 the most awesome and destructive weapons on the planet  
17 by recruiting stupid people.

18           (Laughter; applause)

19           GENERAL HABIGER: Galen Gisler?

20           GALEN GISLER: My name is Galen Gisler.

21 I represent myself.

22           I've worked for Los Alamos National  
23 Laboratory for almost eighteen years.

24           I object to the polygraph test, partly  
25 because I believe that in order for the Lab to fulfill



1 its mission we must recruit the very best minds in our  
2 country.

3           The past three summers, I've been  
4 blessed with the opportunity of working with some very  
5 talented high-schoolers. These kids are irrepressibly  
6 excited at coming here, experiencing a little of what  
7 the Lab has to offer, getting to know Lab scientists,  
8 and participating in scientific research.

9           They're delighted with what they see and  
10 learn here. They don't all start out being interested  
11 in science; but when they leave, many of them begin to  
12 consider science and technology careers.

13           Some of them return here as UGS  
14 employees, and several of them express interests in  
15 exploring career options here. They know that our  
16 mission is national security, and that makes the  
17 prospects here more interesting, as it does for us.

18           But if we were to tell these kids that a  
19 polygraph test would be a condition of work here, I  
20 know their interest would wane considerably.

21           But there are deeper reasons for  
22 my objection. A fundamental issue here is trust.  
23 We all work here under a condition of mutual trust and  
24 respect. We trust that our colleagues won't steal our  
25 ideas or our possessions, and that they will look after

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1 our safety as we look after theirs.

2           We trust our colleagues, our superiors  
3 and our subordinates to be honest with us and fair in  
4 all our dealings; and in turn, we each earn the trust  
5 of others by our own honesty and fairness.

6           Those of us affected by the polygraph  
7 ruling have all been through a security clearance in  
8 which the fundamental assessment made is whether or not  
9 we are worthy of trust. These assessments are renewed  
10 periodically.

11           The polygraph would seem to be  
12 superfluous, if not insulting, on that basis alone.

13           But an even more fundamental issue is  
14 the concept of truth itself.

15           Science, the principal enterprise of  
16 this laboratory, is after all a seeking after truth;  
17 and we can't pretend to engage in that search without  
18 honesty, openness and trust.

19           Telling the truth about what we observe,  
20 about what we calculate, about what we do, about what  
21 we learn, being honest with ourselves and with our  
22 colleagues, is inculcated into every single one of us  
23 from the first science-fair experiment we ever  
24 performed, or the first science term paper we ever  
25 wrote.

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1 Science and truth are inseparable.

2 We all know that, if we lie about  
3 nature, we will certainly be found out eventually.  
4 There is no escaping truth. Truth is ultimately  
5 accessible to all.

6 Now we learn, however, that our  
7 employer cannot trust us to tell the truth. Though  
8 we must, perforce, trust our employer in all sorts of  
9 ways -- to pay us, to be fair with us, to safeguard our  
10 secrets and our safety -- we find that that trust is  
11 not returned.

12 This is deeply, deeply offensive.

13 VOICE FROM AUDIENCE: Hear, hear!

14 (Applause)

15 GALEN GISLER: I fear that I cannot  
16 recommend such an employer to others.

17 It is even morally troublesome to work  
18 for such an employer, myself.

19 GENERAL HABIGER: Thank you for your  
20 comments.

21 (Applause)

22 GENERAL HABIGER: Our final scheduled  
23 speaker is Joe Ruiz.

24 Thank you for coming today.

25 JOE RUIZ: Thank you.

1 I'm not sure if anyone has officially  
2 told you that Bienvenidos en la tierra de Nuevo Mexico  
3 means Welcome to the land of New Mexico; it's a  
4 pleasure to have you here.

5 My name is Joe Ruiz. I'm here today on  
6 behalf of Senator Bingaman, who provided his comments  
7 that have already been submitted to the record.

8 I would just like to submit briefly to  
9 the attendees a summation of the comments that he  
10 submitted.

11 I note that you were all with us  
12 yesterday, but I'd like to do it for the benefit of the  
13 attendees here today.

14 Senator Bingaman opposes this rule.

15 (Applause)

16 This proposed use of polygraphs  
17 goes far beyond what he sees as legitimate use of  
18 this investigative tool. He does not support the  
19 proposition that polygraphs should be used as a  
20 screening tool by the Department of Energy.

21 His opposition is based on five factors.

22 The first factor is that the proposed  
23 rule's basic premise, that screening polygraphs are  
24 effective in detecting guilty individuals, is not  
25 supported by scientific evidence.

1           Senator Bingaman believes that the  
2 Supreme Court said it best last year when it rejected  
3 the use of polygraphs in military courts-martial.

4           The Court said, and I quote,  
5 "There is simply no consensus that polygraph evidence  
6 is reliable. To this day, the scientific community  
7 remains extremely polarized about the reliability of  
8 polygraph techniques," close quotes.

9           The Court also pointed out  
10 that, and again I quote, "Although the degree of  
11 reliability of polygraph evidence may depend on a  
12 variety of identifiable factors, there is simply no  
13 way to know in a particular case whether a polygraph  
14 examiner's conclusion is at risk, because certain  
15 doubts and uncertainties plague even the best  
16 polygraph exam," end quote.

17           The Court's contentions are backed  
18 up by the views of knowledgeable scientists, and by a  
19 comprehensive review by the former Congressional Office  
20 on Technology Assessment.

21           And, of all polygraph techniques,  
22 screening polygraphs have the least scientific support.  
23 Thus, DOE's rule is fundamentally flawed from the  
24 start.

25           (Applause)

1           The proposed rule states that,  
2 quote, "DOE is aware of no scientific studies that  
3 establish that the polygraph examination results are  
4 unreliable for use as an investigative tool as DOE has  
5 today proposed to use them," close quote.

6           Senator Bingaman believes that this is  
7 inaccurate and inappropriate as a basis for rulemaking.

8           DOE bears the burden of proof for  
9 producing scientific studies that validate its approach  
10 in this rulemaking, particularly since there are ample  
11 scientific studies that call the validity of screening  
12 polygraphs into question.

13           (Applause)

14           It is not appropriate or reasonable  
15 in the rulemaking to leave the public ignorant of DOE's  
16 reasons for believing that its proposed rule will be  
17 effective; or, worse, to take the position that it is  
18 up to the public to prove false DOE's seemingly  
19 unsupported assertions.

20           The second reason for Senator  
21 Bingaman's opposition to the rule is that it takes  
22 what he believes is an unrealistic view of the problem  
23 of false positives.

24           He is concerned that people who are  
25 judged, and, quote, "failed" a polygraph screening will

1 not be easily cleared; and this will essentially  
2 require the person, or DOE, to prove a negative.

3           In his opinion, this will be  
4 particularly difficult to do, judging by the way DOE  
5 security issues have been treated over the last year.

6           The third reason for Senator Bingaman's  
7 opposition to the proposed rule is that its provisions  
8 are unacceptably vague on key issues, such as who will  
9 be subject to requirements of the rule.

10           DOE has listed a number of categories of  
11 personnel that might be eligible for polygraphs without  
12 much discussion as to why it believes that such  
13 categories present espionage risks.

14           DOE has explicitly postponed to a  
15 later date and, quote, "internal process," unquote, the  
16 development of criteria by which persons in these broad  
17 personnel categories would be selected for polygraph  
18 examination. These criteria should be in the rule so  
19 that the public can comment on them.

20           The fourth reason for Senator Bingaman's  
21 opposition is that the proposed rule in his view does  
22 not give sufficient consideration to the privacy and  
23 other legal issues that would result from DOE's  
24 proposed polygraph program.

25           The proposed rule does not adequately

1 protect the rights of innocent parties to counsel at  
2 the times when they need it the most in this polygraph  
3 process.

4           DOE has also proposed creating a  
5 permanent record system that may contain audio- and  
6 videotapes of employees sharing private information  
7 about themselves.

8           Such material, if not substantially  
9 related to counterintelligence, should not be retained.

10           The final reason for Senator Bingaman's  
11 opposition grows out of the proceeding itself.

12           He believes that the proposed  
13 counterintelligence polygraph program will make it  
14 much more difficult for the DOE laboratories to attract  
15 and retain the best and brightest scientific and  
16 technical talent.

17           These individuals have many options in  
18 today's competitive technology marketplace. The Chiles  
19 Commission characterized the DOE as being at war over  
20 personnel with the private sector.

21           Competing employers will certainly not  
22 subject individuals to polygraph screening, as this  
23 practice is forbidden in the private sector by the  
24 Polygraph Protection Act of 1988.

25           The DOE is thus instituting a new test



1 for current and prospective employees that will put its  
2 laboratories at an even greater competitive  
3 disadvantage with the private sector.

4           DOE's hope that its proposed rule,  
5 quote, "will be perceived as fair by most potential  
6 employees," unquote, is unlikely to be realized if  
7 these potential employees research the scientific  
8 literature on screen polygraphs prior to making the  
9 decision to accept employment.

10           Senator Bingaman's basic view is that  
11 this rule goes far beyond the use of polygraphs that he  
12 would support.

13           As a limited investigative tool,  
14 where suspicions already exist, there is reason to  
15 think that some polygraph techniques may be valid; but  
16 this proposed rule does not confine itself to these  
17 situations, where there is partial evidence of the  
18 validity of polygraphs.

19           Thus, Senator Bingaman would not support  
20 DOE issuing a final rule that substantially resembles  
21 this proposal.

22           If notwithstanding Senator Bingaman's  
23 opposition the DOE proceeds with this rule, Senator  
24 Bingaman recommends that it reconstitute and reconvene  
25 the Chiles Commission to conduct a formal study of the

1 rule's likely impact on the critical human resources  
2 needed to ensure the safety and reliability of the  
3 nuclear-weapons stockpile.

4 He would also recommend that the DOE  
5 seek review from the National Academy of Sciences --

6 (Applause)

7 -- on the weight of scientific evidence establishing  
8 the reliability of the types of polygraph screening it  
9 plans to implement.

10 Senator Bingaman believes the DOE should  
11 complete both studies before re-proposing a new rule  
12 that addresses what he sees as the deficiency of these  
13 proposal, and allows adequate public comment on the  
14 specifics.

15 Muchas gracias.

16 GENERAL HABIGER: Thank you, sir.

17 (Applause)

18 GENERAL HABIGER: Ladies and gentlemen,  
19 we'll take a ten-minute break, and we will reconvene in  
20 ten minutes.

21 Thank you.

22 (Recess taken)

23 GENERAL HABIGER: Ladies and gentlemen,  
24 I'd like to reconvene this public hearing.

25 Our first unscheduled speaker is

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1 Labriano Lucero.

2 And help me with the pronunciation, if

3 you can.

4 LABRIANO LUCERO: Good morning.

5 As you notice, I am deaf. I'm an

6 employee here, and I've been working here for the last

7 25 years.

8 Within this time, as this is the first

9 time we've faced anything like this, I have to agree

10 with my colleagues: It is a mistrust of employees at

11 the Lab.

12 A polygraph-initiated examination used

13 for screening, to me, is an insult. To me, it is a way

14 of looking at and using technology, not to make it

15 accessible, but to make it inaccessible.

16 As I've seen how technology is used,

17 especially in the media, as been stated before, the

18 media is an area where the image of the Lab has

19 suffered.

20 But at the same time, it's also an area

21 where we're going to use media, where your personal

22 image, whether videotape or audiotape, will suffer.

23 I have to state, the communication issue

24 is critical for me. I have an interpreter here, Kim

25 Corwin. But you have to realize I've been here 25

1 years; Mr. Corwin was hired two months ago.

2 Can you imagine the communication issues

3 I've faced?

4 Can you imagine the trust or mistrust

5 that I have in possibly being called to a polygraph

6 exam without an appropriate interpreter, who is the

7 top-skilled certified interpreter, which we require,

8 which would be my right under the Americans with

9 Disabilities Act, and my right as a human being?

10 And so, those are my concerns.

11 Thank you.

12 GENERAL HABIGER: Thank you, sir.

13 (Applause)

14 Glen Wurden?

15 GLEN WURDEN: My name is Glen Wurden,

16 and I'm representing myself.

17 I'm a technical staff member and team

18 leader for energy programs, specifically a research

19 program on magnetic fusion.

20 It's a nuclear program; it's very

21 closely allied with nuclear weapons, but it is not a

22 nuclear-weapons program.

23 So the work that I do is completely open

24 and unclassified, and yet I've held Q clearance for the

25 last 17 years. I can go to any laboratory in this

1 country; indeed, any in the world. I came as an  
2 Oppenheimer fellow.

3           When I came here, I knew I had to be  
4 fingerprinted, voluntarily, at the local police  
5 department.

6           I knew I had to be investigated,  
7 voluntarily, by quasi-FBI investigators, a branch of  
8 DOE. It depends what year it is as to whether it's FBI  
9 or some other agency.

10           I did not come here to be polygraphed,  
11 voluntarily or involuntarily, by John Doe, Polygrapher.

12           My work today will continue tomorrow  
13 whether I have a clearance or not; but I do believe  
14 that a clearance is an essential thing for workers at  
15 this laboratory, so that when we work on different  
16 projects our joint skills and knowledge can be used by  
17 the nuclear-weapons program people, and the techniques  
18 that I develop, the measurements that I'm able to make,  
19 my knowledge and skill, can help nuclear-weapons  
20 programs in the long run.

21           And indeed, in an emergency situation,  
22 we have a pool of people here at the Laboratory who are  
23 trusted; and this polygraph testing scheme is an  
24 implicit lack of trust.

25           So when you want to find the spies that

1 might be in this laboratory, I don't think you're going  
2 to find them with a polygraph. I do know that you will  
3 chase away the brilliant scientists that you want to  
4 have at this laboratory, because they can work other  
5 places.

6 Thank you.

7 GENERAL HABIGER: Thank you.

8 (Applause)

9 GENERAL HABIGER: Thank you.

10 Tom Intrator?

11 TOM INTRATOR: Good afternoon. Thank  
12 you for taking the time to hear us.

13 I'm a scientist; I work on fusion  
14 research.

15 I don't have a particular axe to grind  
16 with a clearance, because I don't have one. However, I  
17 do have serious objections to the whole process here.

18 First of all, how did we get here?

19 I think that this whole polygraph issue  
20 is very reminiscent of the McCarthy era. I think that  
21 in the McCarthy era, as now, the hysteria started with  
22 the security pretext. There were some elements that  
23 were real, but it was actually about political careers.

24 The present political climate is not  
25 different.

1 I think, if you take a hard look at  
2 what's going on, you realize this may not be about  
3 security at all; this is about politics. And this is  
4 very disturbing to me. I don't think we're solving the  
5 problem that we think we're solving.

6 Secondly, I think we have a credibility  
7 problem, not only with DOE but with Congress. I don't  
8 believe the DOE assurances that I've heard here,  
9 because there's only four questions that matter.

10 I think this is the proverbial camel's  
11 nose under the tent. I think, as in the McCarthy era,  
12 there will be other questions that come up with a  
13 polygraph test, that I don't think are germane.

14 I think this is ripe for abuse, and I  
15 have a problem with it.

16 Not only is there a credibility issue  
17 with DOE and Congress; there's a credibility issue with  
18 the polygraph. As has been said several times before,  
19 the false positives could be 1 percent or 10 percent;  
20 or, if you look at Scientific American in the latest  
21 issue, it could be 40 percent.

22 There's a lot of discussion, a lot of  
23 disagreement, as to how real a polygraph result is.  
24 There is a need for a credible polygraph study, and I  
25 think a study of polygraphs which would give some

1 scientific basis for accepting or rejecting it as a  
2 tool, I think, is a very good idea.

3 I think, in addition, you ought to  
4 consider how many of us are going to refuse to take the  
5 polygraph test.

6 Are you willing to deal with civil  
7 disobedience on this scale? You ought to think about  
8 it. This could be your legacy.

9 And part of this is, how many of us  
10 are going to take a stand and leave over this issue?  
11 I came from the University of Wisconsin six months ago.  
12 I intended to stay here for the rest of my career.  
13 This is a first-class operation.

14 However, this is an issue over which I  
15 would leave; take my money, take my expertise. I could  
16 be out of here on this issue alone, because it means a  
17 lot to me.

18 So, General Habiger, I think, as has  
19 been said before, this is a historical moment for you  
20 and your colleagues.

21 You could preside over the devolution  
22 of this Lab into a third-rate operation, or you could  
23 exercise some common sense and choose another path.  
24 I think history will be the judge. The choice, of  
25 course, is up to you.



1 Thank you.

2 GENERAL HABIGER: Thank you for your  
3 comments.

4 (Applause)

5 GENERAL HABIGER: Bill Varnum?

6 BILL VARNUM: My name is Bill Varnum.

7 I'm representing myself, and I work at the X Division  
8 here.

9 People have spoken very eloquently to a  
10 lot of issues, and I don't intend to repeat those; but  
11 I would like to bring up one issue.

12 You've now heard comments from three  
13 different laboratories; and from talking to people at  
14 the other laboratories, reading news reports, and  
15 listening this morning, 100 percent of those comments  
16 have been in opposition to the polygraph testing.

17 From the proposed rulemaking, we will  
18 have to take this test voluntarily. I think it is a  
19 stretch of logic to believe that a large number of us  
20 would be willing to take this voluntarily, which means  
21 that when we go to the polygraph we will be asked to  
22 sign a voluntary consent form, and if we do that we are  
23 obviously going to be lying to security officials,  
24 which is grounds for removing our clearance.

25 If we refuse the polygraph, our

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1 clearance will be removed; and I don't think this  
2 situation will stand up in any court of law in the  
3 country.

4 I don't appreciate the situation at all.

5 Thank you.

6 GENERAL HABIGER: Thank you, sir.

7 (Applause)

8 We have no further unscheduled speakers  
9 at this time. We will stay in session. The panel will  
10 go back to a little holding room we have. If we have  
11 any additional unscheduled speakers, we will return.

12 In the event that we don't have any  
13 further unscheduled speakers, or even if we do, we will  
14 recess the hearing at 1300 hours, until we reconvene at  
15 1500 hours.

16 Thank you.

17 (Recess taken)

18 GENERAL HABIGER: Ladies and gentlemen,  
19 the time is now 1300 hours local. We have no further  
20 unscheduled speakers for this session. In that event,  
21 I hereby declare this hearing closed, and we'll  
22 reconvene at 1500 hours local.

23 Thank you.

24 (Morning session closed, 1:00 p.m.)

25

1           AFTERNOON SESSION (3:00 p.m.)  
2           GENERAL HABIGER: Good afternoon.  
3           On behalf of the Department of Energy  
4 and Secretary Richardson, I'd like to thank each and  
5 every one of you for taking the time to participate in  
6 this public hearing concerning the proposed Polygraph  
7 Examination Program.  
8           Secretary Richardson has personally  
9 asked me to be here today, to listen carefully to your  
10 comments and concerns, and to report back to him. Let  
11 me assure you that we take this issue and your concerns  
12 very seriously.  
13           The purpose of this hearing is for DOE  
14 to listen to your comments on the Department's Notice  
15 of Proposed Rulemaking. This is a time for us to  
16 listen and to understand your concerns.  
17           It is not, I repeat, it is not a forum  
18 to debate the issues. We are focused on what you have  
19 to say. Your comments are not only appreciated; they  
20 are absolutely essential to this rulemaking process.  
21           The Department of Energy proposes  
22 regulations for the use of polygraph examinations for  
23 certain DOE and contractor employees, applicants for  
24 employment, and other individuals assigned or detailed  
25 to federal positions within the Department.

1           The proposed regulations describe the  
2 categories of individuals who would be eligible for  
3 polygraph testing and controls for the use of such  
4 testing, as well as for the prevention of unwarranted  
5 intrusion into the privacy of individuals.

6           These regulations are being proposed to  
7 comply with various Executive Orders which require the  
8 Department to protect classified information.

9           These regulations for the use of  
10 polygraph examinations for certain DOE and contractor  
11 employees are intended to protect highly sensitive and  
12 classified information and materials to which such  
13 employees have access.

14           This rulemaking also proposes  
15 conforming changes to regulations governing the  
16 Department's Personnel Security Assurance Program,  
17 also known as PSAP, as well as the Personnel Assurance  
18 Program, known to many as the PAP program.

19           If you have not already read the Federal  
20 Register notice from August 18 of this year, I urge you  
21 to do so. Copies are available at the registration  
22 desk, at the rear of the auditorium.

23           The comments received here today,  
24 and those submitted during the written comment period,  
25 which ends October 4, will assist the Department in

1 this rulemaking process.

2 All written comments must be  
3 received by this date to ensure adequate consideration  
4 by the Department.

5 The address for sending in comments is  
6 Douglas Hinckley, United States Department of Energy,  
7 Office of Counterintelligence, CN-1, Docket No.  
8 CN-RM-99-POLY, 1000 Independence Avenue Southwest,  
9 Washington, D.C. 20585.

10 In approximately 14 days a transcript of  
11 this particular hearing will be available for  
12 inspection and copying at the Department of Energy's  
13 Freedom of Information Reading Room in Washington, D.C.

14 The address is specified in the Federal Register notice  
15 and is also available at the registration desk.

16 The transcript will also be placed on  
17 DOE's Internet web site at the following address:  
18 [Home.doe.gov/news/fedreg.htm](http://Home.doe.gov/news/fedreg.htm).

19 In addition, anyone wishing to purchase  
20 a copy of the transcript may do so by making their own  
21 arrangements with the transcribing reporter, seated  
22 here at the front of the auditorium.

23 This will not be an evidentiary or  
24 judicial type of hearing. It will be conducted in  
25 accordance with Section 553 of the Administrative

1 Procedure Act, 5 U.S.C. Section 553, and Section 501  
2 of the DOE Organization Act, 42 U.S.C. Section 7191.

3 In order to ensure that we get as much  
4 pertinent information and as many views as possible,  
5 and to enable everyone to express their views, we will  
6 use the following procedures.

7 First, speakers will be called to  
8 testify in the order indicated on the agenda.

9 Speakers have been allotted five minutes  
10 for their verbal statements.

11 Anyone may make an unscheduled statement  
12 after all scheduled speakers have delivered their  
13 statements. To do so, please submit your name to the  
14 registration desk before the conclusion of the last  
15 scheduled speaker.

16 The last scheduled speaker for this  
17 afternoon is Ken Lagattuta. I probably butchered his  
18 name, and I'll let him correct me when he gets up to  
19 speak.

20 And finally, questions for the speakers  
21 will be asked only by members of the DOE panel  
22 conducting the hearing.

23 As I said, the purpose of this  
24 hearing is to receive your comments and concerns  
25 on DOE's Notice of Proposed Rulemaking. I urge all

1 speakers to provide us with your comments, opinions,  
2 and pertinent information about the proposed ruling.

3           Please remember that the close of the  
4 comment period is October 4, 1999. All written  
5 comments received will be available for public  
6 inspection at the DOE Freedom of Information Reading  
7 Room in Washington, D.C.

8           The phone number there is (202)586-3142.

9           If you elect to submit written comments,  
10 please include ten copies of those comments. If you  
11 have any questions concerning the submission of written  
12 comments, please see Andi Kasarsky at the registration  
13 desk at the rear of the auditorium. She can also be  
14 reached at (202)586-3012.

15           Any person submitting information which  
16 he or she believes to be confidential and exempt by law  
17 from public disclosure should submit to the Washington  
18 address a total of four copies: One copy complete with  
19 the confidential material included, and three copies  
20 without the confidential information.

21           In accordance with the procedures  
22 established at 10 CFR 1004.11, the Department of Energy  
23 shall make its own determination as to whether or not  
24 the information shall be exempt from public disclosure.

25           We appreciate the time and effort you

1 have taken in preparing your statements, and are very  
2 pleased to receive your comments and opinions.

3 I would now like to introduce the other  
4 members of our panel.

5 Seated to my immediate left is Lise  
6 Howe, an attorney with the DOE's Office of General  
7 Counsel. Lise?

8 And on my far left, Bill Hensley; and  
9 he's the Director of Office of Security Support with  
10 DOE's Office of Defense Programs.

11 Before we begin to hear your comments,  
12 we thought it would be extremely valuable to provide  
13 you with a short briefing on polygraphs.

14 We are well aware that there is a lot of  
15 confusion and many misconceptions about this particular  
16 issue. Last week we held in-depth briefings at each of  
17 the Labs. This afternoon's briefing provides some of  
18 that same material.

19 I would like to call first Dr. Andy  
20 Ryan, Director of Research from the Department of  
21 Defense Polygraph Institute; and Dave Renzelman,  
22 Polygraph Program Manager for the Office of  
23 Counterintelligence, Pacific Northwest National  
24 Laboratory, to provide that briefing.

25 Andy?



1           MR. RYAN: Thank you, General; and thank  
2 you again for having me here today to represent the  
3 Department of Defense Polygraph Institute.

4           I must start off with an apology; we  
5 don't seem to be projecting what's on the computer  
6 right now, so I'm going to have to ask you to imagine  
7 that you're seeing words on the screen for the moment.

8           As an instructor I guess for a number of  
9 years, starting at an academic institution, and before  
10 that in high schools and other places, I tend to always  
11 want to start with a definition.

12           I'd like to start with a definition of  
13 polygraph, if I could today, and describe polygraph as  
14 being the forensic discipline supporting intelligence  
15 and law enforcement.

16           What we do is we look for a  
17 stimulus/response kind of relationship. We provide a  
18 stimulus which we call a test item, and we look for a  
19 physiological response from the nervous system to see  
20 if there's a relationship between the two.

21           When we were talking about a polygraph  
22 test, we were talking about a number of different  
23 variables; and today I'm going to try to help you  
24 understand more about the test itself, and how we train  
25 our examiners, and the school they go through, and the

1 types of research we look at in support from DoDPI to  
2 get the answers you're most interested in, as well as  
3 myself.

4           Currently in the federal government  
5 there are 22 federal agencies that have polygraph as a  
6 program to support their missions. Twelve of those  
7 agencies have programs that conduct security screening  
8 examinations, similar to the ones being proposed by the  
9 DOE for Los Alamos and the other labs.

10           I'm not even projecting here.

11           The DoDPI is the only training institute  
12 for federal examiners nationwide. We train all of the  
13 federal examiners from all 22 of the polygraph  
14 programs.

15           The school consists of a new training  
16 facility actually located at Fort Jackson, South  
17 Carolina, that just opened up; had our ribbon-cutting  
18 in June of this year.

19           And we have a brand-new state-of-the-art  
20 facility, which has two missions, really; to conduct  
21 research, and to conduct instruction on the federal  
22 polygraph examination program.

23           Our students come to us with a  
24 minimum of baccalaureate degrees. Our examiners that  
25 work there as instructors and the support staff on the

1 research, we have six Ph.D. scientists working for us;  
2 all are there at the direction of the institute itself,  
3 and we are now being accredited or are being in the  
4 process of being accredited by the Department of  
5 Education to award a master's degree in  
6 psychophysiology.

7           Because of that requirement from the  
8 DOE, each of our program areas in the curriculum are  
9 supervised by Ph.D.-level people.

10           In addition to the basic level  
11 of instruction, which is some 600 classroom hours,  
12 six months of an internship following that, and an  
13 additional year of probation before an examiner is able  
14 to conduct an actual examination, we have continuing-  
15 education courses that are conducted year-round, either  
16 at the DoDPI or at sites most convenient to the  
17 agencies where we retrain or continue to train our  
18 examiners, because they have a continuing-education  
19 requirement, much like all other professions that have  
20 certification and licensure.

21           They have a requirement of 80 hours  
22 every two years; so it's quite intensive in terms of  
23 the training they have to go through.

24           Each of the federal agencies that we  
25 support have what's called a quality-control program.

1 You'll hear more about the quality-control program  
2 within the DOE when David Renzelman talks to you in  
3 just a moment.

4           But I'd like to say that the beginning  
5 of the quality program starts at DoDPI as we teach and  
6 instruct the examiners how to conduct exams in what we  
7 call the DoDPI method, the DoDPI way.

8           In addition to the quality-  
9 control programs at each agency, we at DoDPI have a  
10 Congressional mandate to have our own quality-control  
11 program that goes out and inspects each of the other  
12 quality-control programs.

13           So, on a routine, regular basis, we  
14 have a quality control unit that sends examiners out,  
15 inspection teams if you will, to go to each of the  
16 agencies and make sure that they're following basically  
17 the rules and procedures that we have prescribed at  
18 DoDPI.

19           A couple of reasons for that.

20           If they do it the way we are teaching,  
21 then we can support them in terms of expert testimony  
22 and anything else.

23           We have produced at DoDPI written  
24 examination standards. It's a federal examiner's  
25 handbook, if you will, that is given to each of the

1 examiners as they go through the school; and that  
2 basically gives them, if you will, a desktop manual to  
3 follow throughout their career.

4           In addition to that, in addition  
5 to seeking accreditation from the Department of  
6 Education, we're also working on standards, if you  
7 will, for conducting polygraph examinations outside of  
8 the federal government, because we are aware that there  
9 are private examiners and private schools that don't  
10 necessarily teach polygraph exams the way that we teach  
11 it, nor do they have the quality control that we have.

12           So we're working with the ASTM in  
13 creating standards for the outside examiners as well.

14           Each of our students, as I mentioned,  
15 comes to us with a minimum of a baccalaureate degree.  
16 The instruction at DoDPI is at the master's level. We  
17 are looking, as I said, to grant the master's degree  
18 soon in forensic psychophysiology.

19           The curriculum has been developed and  
20 proposed to the Department of Education, based on our  
21 research.

22           So as we define and describe the test  
23 format, how it's conducted and how the scoring will  
24 take place of the exam itself, the charts, if you will,  
25 that is all based on the research that we have, either

1 from internal research at DoDPI or external research  
2 when we fund research.

3           Also, in addition to the curriculum,  
4 any curriculum change, should we find through research  
5 that we find a better method or a better mousetrap, if  
6 you will, than the way that things are done now, we can  
7 modify that, we can change it for the better, we can  
8 have better instrumentation, better techniques, better  
9 interpersonal skills, and then the research drives that  
10 change in the curriculum itself.

11           There are a couple things in terms  
12 of accuracy which I know is of interest to all of us,  
13 because I'd like to talk about in terms of what we are  
14 looking for at DoDPI in training examiners and making  
15 the program better.

16           First, there is an area called the  
17 true positive, the one that we want to be very accurate  
18 with, and that's detecting the person who is not being  
19 quite candid or completely candid with us, the person  
20 who is telling us a lie or being deceitful. We call  
21 this deception, indicated by the exam.

22           So we want to make sure that we are able  
23 to detect lies as accurately as possible.

24           We also want to be very good at  
25 detecting the truth. Sometimes I don't know which is

1 easier, detecting truth or detecting lies; but that's  
2 also an interest of ours, in terms of we want to be  
3 very accurate with the honest people.

4           There are two types of errors that we  
5 are concerned with in validating our accuracy.

6           One is -- and I know this is a concern  
7 here -- the false-positive error. How many times do we  
8 actually call someone deceptive when in reality they  
9 are truthful?

10           It is an interest at DoDPI, it is an  
11 interest, part of our curriculum, to try not to make  
12 these types of errors; but we also have an interest in  
13 what we call the false-negative error, letting someone  
14 slip through the system. There are case studies, case  
15 examples I'm sure you're aware of, where this has  
16 happened.

17           So we have sort of a twofold mission.  
18 We're trying to lower both as you know, in an inverse  
19 relationship, and it's not easy.

20           There is nothing in the literature that  
21 can tell you absolutely what the accuracy rate is, the  
22 validity, reliability, and utility of polygraph. What  
23 we do know is that we have found no better way of doing  
24 what we do in terms of detecting deceit within the  
25 individual.

1           What we do know, in addition to that, is  
2 that every science, if you will, every methodological  
3 process, has its strengths and weaknesses; and one of  
4 the things that we do to try and I guess achieve this  
5 goal of knowing as close as we can the validity and  
6 other issues is, we conduct two types of research.

7           We obviously have the analog research  
8 being conducted at the DoDPI. As I mentioned, we have  
9 six Ph.D.-level scientists there, each in their own  
10 specialty, looking at ways to better do polygraph  
11 examination.

12           In a laboratory, you can imagine asking  
13 someone, a subject that we bring in, whether it be a  
14 military personnel on the base that you're located, or  
15 a paid subject we bring in through a contracting  
16 agency, or a student going through an introductory  
17 psychology course at a university nearby, or one of the  
18 university sites because we fund, it's very difficult  
19 to ask a subject to role-play or to pretend to be a  
20 spy.

21           What happens is we are trying to, in a  
22 mock scenario, mock-screen scenario, ask them to create  
23 the emotion that we are trying to measure with  
24 physiological measurements.

25           So that's a weakness in the analog



1 study.

2           The strength of the analog study is that  
3 we are programming our subjects to be either innocent  
4 or guilty, so we know what is called ground truth. We  
5 know that a certain percentage of our subjects are  
6 going to be truthful or attempt to be truthful on the  
7 exam.

8           We know that a certain percentage of  
9 them are going to be deceitful; they're told how to do  
10 that through their mock scenarios.

11           We look at kind of a Mission Impossible  
12 feed all the time; they have to go through all kinds of  
13 things to commit this crime, espionage, come back to  
14 the examiner and be examined. Of course, the examiner  
15 is doing it in blind.

16           So that's our strength with the analog  
17 study.

18           We want to compare the analog study to  
19 the field studies; and again, we have strengths and  
20 weaknesses.

21           The strength of a field study is we're  
22 out there in the real world, dealing with real subjects  
23 who do have the behaviors and have the experiences that  
24 we're trying to measure and to assess the truth of the  
25 subject.

1           The weakness, of course, in the field  
2 studies is that it's very difficult in most cases to  
3 know absolute ground truth.

4           If you could imagine, again, in a  
5 criminal setting, the only way we know absolute ground  
6 truth is when someone confesses to the crime, or we  
7 actually have other forms of evidence to prove the  
8 guilt of a certain person.

9           So when we're collecting our data, and  
10 we have what's called a confirmed case database, that  
11 database is then distributed to other people to write  
12 the algorithms for scoring and to help us in making  
13 this more accurate, we only allow those cases into that  
14 database that we have absolute ground truth on.

15           And we reject a lot of cases, because in  
16 a situation where no one has confessed or the crime is  
17 unsolved, or it's in some type of an investigatory  
18 process, we cannot put that in the database and call  
19 that ground truth.

20           So we have analog studies and field  
21 studies, and we have also data that say the analog  
22 studies have a certain accuracy rate or a certain  
23 validity and the field studies have another.

24           So I'd like to share with you, if I can,  
25 some of the most recent studies, empirical studies,

1 that we have conducted or supported at DoDPI.

2 In a recent study, we had 208 subjects  
3 go through a mock-screening scenario where they were  
4 actually asked to commit some type of espionage,  
5 excluding the inconclusives; and I'm sure you're aware  
6 by now an exam can come out either positive, negative,  
7 or we can't tell from the data that we have.

8 What happens to the inconclusives,  
9 you'll hear about in a moment.

10 But in that particular study, we  
11 found that we were 93 percent accurate with all of the  
12 subjects who were programmed to be guilty; we were 94  
13 percent accurate with those that we programmed to be  
14 innocent.

15 There was a similar study using  
16 non-federal examiners, people that are trained in  
17 another way, another type of school, maybe not taught  
18 the DoDPI way; in some cases there's a lot of overlap,  
19 but we ask them to use our methods so that we can  
20 generalize our results out to the federal community.

21 And in this case, where this was a field  
22 study, the previous study was an analog study, we had  
23 11 percent inconclusives; a little bit higher.

24 We found that 72 percent of the  
25 deceptively programmed subjects were identified by

1 these examiners, and 87 percent of the truth subjects  
2 were identified.

3           So there is some difference when you ask  
4 what is the validity, accuracy, of a polygraph; there  
5 is a difference, as we know, between the analog study  
6 and the field study. And I think you find this true in  
7 almost every science.

8           I'd also like to share with you, if I  
9 can, some of our data from the DoDPI.

10           As you probably imagine by now, we  
11 conduct these types of aperiodic examinations of our  
12 people, which include federal employees like myself as  
13 well as contract employees for DOD.

14           In fiscal year '98 -- wish you could  
15 see this nice little chart, to help answer a lot of our  
16 questions -- we administered this test to 7461 of our  
17 employees and/or contractors. Zero people refused to  
18 take the exam; Everybody was willing to take the exam.

19           Of the 7461, 98.3 percent of them were  
20 found, after the first series of charts, if you will,  
21 the exam, to be ground truth. 7334 were found to have  
22 no significant response, meaning there was nothing in  
23 the charts to suspect a reason to go any further.

24           Two people out of that population,  
25 if you will, were found inconclusive, because we could

1 not determine definitive results; so that goes as  
2 inconclusive. We have to find some other way to  
3 determine the truth in this case.

4           We did find four people who came up with  
5 a significant response. We would call these people  
6 deceptive.

7           They made admissions, when questioned  
8 by the examiner -- and you'll hear in a moment how this  
9 occurs -- very typically the examiner would say you had  
10 a response on this item, and we don't understand why we  
11 had this response, and it's discussed.

12           In these cases, four people did admit to  
13 the fact that there was something going on.

14           Additionally, we had 11 people who  
15 came out with a significant response, from the same  
16 population. They had been determined in the exam to be  
17 deceptive. After the question to try and understand  
18 what might be causing the response, it was not  
19 resolved.

20           They continued to have significant  
21 responses to the questions, even after they were  
22 refined.

23           These to the best of my knowledge,  
24 because we did it with a number of agencies in the  
25 community, are in the investigative process.

1           But importantly for this, I think what  
2 you need to know is if you're adding up the numbers --  
3 I haven't got everybody there yet -- there were 110  
4 people who were identified as having a significant  
5 response, and that they were then cleared.

6           So the false positive of 1 1/2  
7 percent in this case turned out to be part of our true  
8 positive, people who were identified as being honest.

9           I guess you could call this a case  
10 study, because it's real data, and the data was just  
11 given to us in research, because we want to always keep  
12 abreast of it.

13           We do know we're finding about 1 out of  
14 over 480 exams produces a false positive, something  
15 that needs to be followed up on, not someone who was  
16 guilty and some action needed to be taken, but some  
17 action where follow-up information needed.

18           But also in that same type of process at  
19 DOD we found four people who were involved in foreign  
20 intelligence services; and this was discovered through  
21 the polygraph administration.

22           We found three additional people who  
23 had committed deliberate acts of sabotage against  
24 government defense systems, from other computers.

25           Thirty-eight cases of hidden foreign-

1 national contacts, and 125 instances of deliberate  
2 disclosure of classified information to an  
3 unauthorized person.

4           So a lot of the utility of polygraph is  
5 additional information that was derived in that  
6 follow-up question, if you will.

7           We need to be aware that polygraph is  
8 not, any more, a unique American technology. Several  
9 years ago, back in the '50s, I guess, we were the only  
10 country that used polygraph. Now we know that 68  
11 countries internationally are using polygraph, and are  
12 using it in similar ways that we do, to protect our  
13 national security.

14           There's an increasing number of  
15 countries that are using it in intelligence and  
16 counterintelligence services.

17           It is one of the missions of DoDPI to  
18 follow the foreign usage, and how that is growing. I  
19 guess it would be safe to say that now they have to  
20 keep up with us, and we have to keep up with them.

21           One of the things we discovered early on  
22 in trying to assess whether other countries were aware  
23 of our techniques and our methods is that we were aware  
24 during the Cold War that there was something being done  
25 to defeat the polygraph, and we called this a

1 countermeasure.

2           There are a number of different ways of  
3 conducting countermeasures, ways to beat the exam, if  
4 you will. It is now basically public information, it's  
5 in the printed literature, it's on the Internet. You  
6 can go to the Doug Williams page, I think it's called,  
7 on the polygraph or something like that, and you can  
8 download all the information. It will basically teach  
9 you methods to defeat the polygraph.

10           Some of this might include visual  
11 imagery, hypnosis, biofeedback, flexing and tensing  
12 muscles, and all kinds of different things to try to  
13 give misreadings to the polygraph exam.

14           I think, for a lot of reasons, these  
15 types of countermeasures assume a lot of naivete on the  
16 examiner's part. This is something that we can now  
17 detect.

18           We have algorithms that are looking at  
19 countermeasures, because we have artifacts in the wave  
20 forms that don't make sense to us.

21           There are many uncertainties in trying  
22 to apply algorithms in real life, because you have to  
23 know exactly when to apply them. We ask different  
24 types of questions, and if you apply them globally  
25 basically what we get is a flat-line reading, and we



1 have to say, no opinion; something is going on here.

2           We do acknowledge that there have been  
3 cases where we've been defeated by countermeasures.

4           I guess one of the most famous ones was  
5 the Aldrich Ames case, by the CIA. It was found he was  
6 trained by the Soviets in how to defeat the polygraph.  
7 So we had basically a mole inside the agency taught how  
8 to beat the polygraph, even though he went through  
9 several of them.

10           In reality, going back and looking at  
11 the case, we found he didn't beat the machine, so to  
12 speak' he beat the system. He was trying to, I guess,  
13 work his way through the system with the examiner in  
14 the system that was in place.

15           Federal examiners at the DoDPI are being  
16 taught, as I mentioned, to detect countermeasures. We  
17 have technology, we have instruments; lots of ways of  
18 looking at how to detect if these things are taking  
19 place.

20           In terms of drugs, we do not know of  
21 any pharmaceutical way of having the autonomous nervous  
22 system respond differently to different questions when  
23 you have no idea or wind of what the questions are that  
24 are going to come about.

25           We do know there are drugs, medicines,

1 that can suppress the autonomic nervous system, but it  
2 does it globally; so then you go back to the sort of  
3 flat line.

4           Most recently, London and Krapohl  
5 published in the Polygraph Journal this year a case  
6 where we have documented evidence now, admission from  
7 the subject, who took the Williams information, who  
8 bought the book if you will, learned how to do the  
9 countermeasures and tried to apply them in a polygraph  
10 setting, and was unable to beat the polygraph examiner.

11           These are called our post-Ames methods;  
12 ways we learned to get around that.

13           I'd like to close with a quote from a  
14 recent book from one of our staunchest opponents, David  
15 Lykken from the University of Minnesota.

16           David is one of those people we look to  
17 to create more questions for us. The more criticisms  
18 we have, objective criticisms, the more we can  
19 basically modify our methods.

20           And I'm just going to paraphrase some of  
21 what he says.

22           Basically, he's saying those positions,  
23 he quotes, will be CIA operatives.

24           These are sensitive positions, in which  
25 the person can do great mischief; and it may be in the

1 public interest to use a screening procedure that  
2 reduces the number of undesirable candidates hired,  
3 even if this also means excluding a large number of  
4 perfectly acceptable people.

5 Thank you for your attention.

6 MR. RENZELMAN: I'm not sure what we  
7 have to do to get this computer working.

8 Was I successful?

9 MR. RYAN: No.

10 MR. RENZELMAN: Maybe it's our  
11 equipment.

12 My name is David Renzelman. I'm a  
13 contract employee with Pacific Northwest National  
14 Laboratory.

15 The agenda that you have indicates that  
16 I'm the program manager of the Office of  
17 Counterintelligence there.

18 That's not the case; I'm the polygraph  
19 program manager for the Department of Energy. I'm paid  
20 by Pacific Northwest National Laboratory, and I report  
21 generally to General Habiger, and also report to  
22 Mr. Curran.

23 Mr. Curran is Director of  
24 Counterintelligence, and General Habiger is Director  
25 of Office of Security and Emergency Operation for DOE.

1           What I would like to do is, should DOE  
2 implement a polygraph program that would affect you in  
3 the position that you have at this laboratory, I'd kind  
4 of like to tell you what to expect and what not to  
5 expect, what it can do and what it won't be doing, and  
6 generally assist you in making it an experience that  
7 would not be as miserable as it could be if you did not  
8 have this issue before you.

9           Polygraph is a mechanism to  
10 record externally on paper, via computer, how  
11 you're emotionally experiencing physiological responses  
12 when you listen to, think about, and answer questions  
13 that you and the examiner will agree to before the  
14 test is administered.

15           And I think that's critical; and I'll  
16 tell you why.

17           In the early days, when we were doing  
18 testing, I was with OSI, and we were doing testing for  
19 NRO to help them get their program started.

20           We were down at TRW, and there were  
21 about 47 people in the audience, and I thought it would  
22 be important for me to understand what everybody  
23 thought the term espionage meant to them.

24           They were given a piece of paper, and  
25 asked to write down what they thought espionage meant.

1           The one that I'll take with me to my  
2 grave was a woman who came back and said, yes, I've  
3 committed espionage, but I only did it twice. I was on  
4 travel both times, and I told my husband about it, and  
5 since then we've gone to marriage counseling, and I  
6 promised never to do it again.

7           (People chuckling)

8           Now, I shudder to think what would  
9 have happened had we not explained to this person  
10 what espionage really meant, and whether or not she  
11 had really done it, because the results of that test  
12 could have been adverse to her well-being.

13           The questions that we're going to ask  
14 are in different categories.

15           We have security questions. We want to  
16 ensure that you never engaged in espionage against the  
17 United States of America, so we're going to ask you  
18 that, pointblank: Have you ever engaged in espionage  
19 against the United States?

20           And you know what? You're not going to  
21 wake up some morning and fall out of bed and become a  
22 spy. This takes a series of actions on your part to be  
23 a spy and commit espionage against a country. I'm not  
24 going to go into that, but it's common sense.

25           We're going to ask you about sabotage,

1 which would include terrorist activity.

2 Terrorist activity in this country  
3 is getting more and more prevalent. We've had it from  
4 post offices to churches. It would be nice not to ever  
5 have it in the area of who we work with and design and  
6 do things like you people do, pertaining to nuclear  
7 weapons.

8 We want to make sure that there's been  
9 no illegal disclosure of classified information to a  
10 representative of a foreign or hostile government who  
11 could take that information and use it to their  
12 advantage, and our disadvantage.

13 General Habiger has told me, and  
14 Mr. Curran has told me, that we are not interested in  
15 inadvertent or improper conversation with a loved one  
16 or spouse, a friend or a neighbor.

17 That's two things. It's not terribly  
18 intelligent, and it's against your rules. They call it  
19 a security infraction; and we're not testing for that.  
20 Very simply put, they call it pillow talk.

21 Now, we don't care about that. No  
22 matter how interesting that story may be, we may have  
23 to record it to get it out of your life and talk about  
24 what we're really there for, which is, are you working  
25 for our government only?

1           That's what we care about.

2           Lastly, we're going to ask you a  
3 question about have you had any unauthorized contact  
4 with a foreign intelligence service.

5           We're not talking about some exotic  
6 relationship that you may have encountered on a trip  
7 to some foreign country. Regardless of how interesting  
8 that tale may be, we would not want to know about that,  
9 and would stop you before you could continue.

10          But we are interested if you've been  
11 contacted by a representative of a foreign intelligence  
12 service.

13          Now let's suppose we ask those questions  
14 and record the physiological data, and enter it in the  
15 computer on a piece of paper, three parameters --  
16 respiration, electrodermal activity, and cardiovascular  
17 activity -- and we don't see physiological responses to  
18 those questions. One might think you were telling the  
19 truth, because it did not trouble you.

20          We would like to know you have the  
21 capability to respond physiologically if you were to  
22 tell an intentional lie. So we have a series of  
23 questions that we would ask you to lie about.

24          Very simply put, one of them that  
25 we're permitted to use is something that most of us can

1 relate to, and that's committing a traffic violation.

2           Most people who walk or drive a car have  
3 committed a traffic violation in their life. We would  
4 ask you, have you ever committed a traffic violation?  
5 Please acknowledge, yes or no.

6           Don't tell us about it; we don't want to  
7 know the details. But can you acknowledge that you  
8 did? And if you did, we're going to ask you, can you  
9 envision when you did it, and what it was? And if you  
10 can go along with that, that far, we're going to say,  
11 during the polygraph test, we want you to lie when we  
12 ask you if you did it, and say no. We're going to ask  
13 you to visualize it, think about it, and intentionally  
14 say no.

15           Now, what have we done? We've taken  
16 your psychological setting and have it focus on the  
17 area which is going to cause you some concentrated  
18 effort, because you're going to have to think about  
19 that, you know that you don't have to remember the  
20 truth it comes out automatically.

21           But you're going to have to think  
22 about lying to us about committing a traffic violation.  
23 You're going to have to see it make a conscious effort.

24           Your body's autonomic nervous system  
25 will record physiological data on that chart that we're



1 going to look at that can show us how you could respond  
2 if you were to lie.

3           And that is a comparison technique.

4           That is not really done by the people  
5 who write the books and put them on the Internet in the  
6 '80s or anything. I agree with the data that's on the  
7 Internet. That's apples; this is oranges.

8           That data was collected on students  
9 trying to pretend to steal a wallet. We're talking  
10 about real-life things here.

11           And if that happens, one would tend to  
12 think there's no need to test you any further about  
13 that question pertaining to espionage or any of the  
14 other subjects, and we would proceed.

15           Now, that sounds like a simple matter,  
16 and it only takes perhaps eight minutes to run a  
17 polygraph chart, Maximum, depending on you. The  
18 preparation time is to get you ready to do that.

19           The paper quoted me as saying last  
20 Wednesday that it takes about an hour to run the test.  
21 It takes about an hour to get you ready to run the  
22 first test. Then we have to look at the data after  
23 it's completed; then we have to analyze that data.

24           And that data is looked at by the  
25 examiner that ran the test, and he makes an opinion.

1           Then that examiner takes and gives it to  
2 second examiner, called peer review, who does not have  
3 the benefit of the opinion that the first examiner had.

4           And we don't stop there. That's called  
5 quality control, quality assurance.

6           If the two examiners see the same thing,  
7 it goes to the third level, called supervisory review.

8           And we record every examination on  
9 videotape; every one of them. And there's two methods  
10 that we do this. We have the audio/video camera of the  
11 person taking the examination that is being recorded  
12 running before the two people walk in the room, the  
13 examiner and person taking the test. Every word is  
14 recorded, every action is recorded.

15          Then we take the data from the computer,  
16 inject it into that same videotape so that we can see  
17 the physiological responses realtime, as the test is  
18 being conducted in the supervisor's office and in the  
19 quality-control office upstairs, realtime.

20          We know what's going on inside the room  
21 as it's taking place.

22          Then, that test is not completed until  
23 quality assurance has in the blind reviewed that test,  
24 compared the results of the first, second and third  
25 examiners. At that point in time, that test is

1 considered to be done.

2           The greatest majority of tests being  
3 conducted in this kind of testing are going to be  
4 no-issue tests. The videotapes of those tests are  
5 destroyed.

6           And there's only two people that would  
7 ever see those in the event there was ever a reason to  
8 do that, and that's the Director of Counterintelligence  
9 or myself.

10           They're kept in a secure area. Then,  
11 every 90 days we destroy them by incineration.

12           The only person that reviews the  
13 examinations that you're going to do is the Director of  
14 Counterintelligence; or, if it's under the auspices of  
15 General Habiger, it would be him. That's the results  
16 of the test, not the process of determining what the  
17 results were.

18           And of course I work for CN-1, and I  
19 provide independent quality assurance on all polygraph  
20 examinations.

21           We talked about videotapes, and I'll  
22 skip ahead of myself, and let me tell you that we  
23 adhere only to the procedures established by DoDPI.

24           Dr. Ryan talked about quality-control  
25 office. I am the quality-control program for DOE. We

1 get inspected by DoDPI, and I think that's terrific.  
2 It's called a biannual inspection; I'd like to be  
3 inspected every year, because I don't want to have to  
4 wait two years to find out I've been doing something  
5 wrong.

6 He and I talked about that today.  
7 I think it would be a great idea if I could be  
8 inspected annually, or even more often. I just believe  
9 in that.

10 But let me tell you about our first  
11 inspection we had by DoDPI, which was conducted a year  
12 ago in August.

13 DOE is the only federal agency with a  
14 polygraph program that had zero adverse findings. We  
15 did everything the way it was meant to be, and there  
16 are zero findings in our program. There is no other  
17 federal agency that can say that. I'm proud of that,  
18 and intend to keep that as high as it is.

19 The second paragraph is very important,  
20 and I would like you to pay attention to that.

21 The Secretary of Energy, emphasized  
22 again by General Habiger, and my head boss, Ed Curran,  
23 said adverse action based solely on the response of a  
24 polygraph test cannot be used against an individual  
25 before all other efforts available to the Department of

1 Energy have been exhausted; and they are extensive.

2           The idea is a verification process, not  
3 like we've heard it called a witch hunt or anything  
4 else; it's here to establish a feeling of assurance, a  
5 trust state, the confidence that the Department of  
6 Energy has in certain people in selected positions; not  
7 everybody in the program, but certain people yet to be  
8 determined that their positions or jobs would be of  
9 interest to a foreign government or an entity because  
10 they warrant that trust state and confidence.

11           And I think in my opinion, that that is  
12 a good process.

13           Our qualifications, we meet every day at  
14 DoDPI, and we have seen them.

15           They require a baccalaureate degree;  
16 we require graduate study, leading towards a graduate  
17 degree. I don't take people out of college and teach  
18 them how to be a polygraph examiner and let them learn  
19 on you. I don't do that.

20           We had ten examiners. I've acquired  
21 them from the CIA, I've got NSA, I've got NRO, I've got  
22 NIS, I've got MI, I'm got Army CID, an FBI agent coming  
23 on board, and the OSI, and that's it.

24           But every one of those people have at  
25 least tenure as federal investigator experience either

1 as an 1811, investigator with the federal government --  
2 that's a GS job-rating service for federal experience,  
3 or they get it with the department -- or they have been  
4 with the Department of Defense, as a federal  
5 investigator for them.

6           And they have to have proven  
7 counterintelligence experience; then they have to be  
8 certified by DoDPI. Now, that requires a whole lot of  
9 things, but one of which is every year they have to  
10 have 40 hours of continuing education, every year, in  
11 order to retain that certification.

12           That's in addition to the 560 hours of  
13 the basic course, plus six months of an internship,  
14 followed by a year's probation, before they can be  
15 certified. That's pretty extensive qualifications, and  
16 we do that.

17           Then DOE gets it, and before they run  
18 their first test with us, regardless of the experience  
19 they had with another agency, they have to test our  
20 examiners. With a new examiner coming on, they are  
21 asked to test our examiners 25 times.

22           We do that so that we are convinced,  
23 sure, that every test they're going to run would be  
24 that I would want to have tested on me if my career,  
25 reputation should depend on it; and if I wouldn't let

1 them test me, I'm not going to let  
2 them test anybody in DOE.

3           We require full membership, and  
4 we're the only agency that does this, we require full  
5 membership in the American Polygraph Association and  
6 the American Association of Police Polygraph Examiners.  
7 These are the two national associations of polygraph  
8 examiners.

9           Our examiners hold leadership positions  
10 in both of these. I am the director of quality control  
11 for AAPPE, and the director of a committee for the  
12 American Polygraph Association.

13           We have one of our examiners as the  
14 chairman of the Ethics Committee for AAPPE. Another of  
15 my examiners is president of AAPPE, and another is the  
16 Journal editor for AAPPE.

17           And I'm saying we do quality control.  
18 We do quality control for major metropolitan police  
19 departments and agencies, some of which are very  
20 interesting.

21           I've had the pleasure of seeing some  
22 high-level, high-profile, polygraph tests in my career.

23           We've been inspected by everyone that  
24 can inspect us. We've asked the AAPPE, and they did;  
25 we've asked DoDPI to inspect us, and they did.

1           We've asked the Air Force NRO and  
2 Counterintelligence, and they did; and we have on  
3 record their written reports. Should you ever come  
4 down to our test center, you're welcome to see them.

5           But, there is no finer program in the  
6 federal government.

7           CN-1 coordinates all the DOE policy.  
8 I can't make policy; he does that. He's SO-1, and Ed  
9 Curran is CN-1. Those are the two main players for  
10 this thing. They make the policy, and they do it in  
11 conjunction with authorities of DoDPI.

12           It's not made up by DOE; It is accepted  
13 counterintelligence polygraph procedures, based on  
14 research.

15           But the two people that I think you need  
16 to know about that run this begin with General Habiger.  
17 He was the guy in charge of Strategic Air Command. You  
18 don't get more responsibility than that.

19           Then you've got Ed Curran, Assistant  
20 Director of the FBI. That's one heck of a start for  
21 DOE to get this program on the road and get it done  
22 right.

23           Curran is the guy they sent to the on-  
24 site inspection agency; Curran is the guy they sent  
25 over to the CIA to get the investigation program back



1 on track; and he's the one that supervised the  
2 Nicholson investigation, and others.

3           So between him and the guy who  
4 implemented the weapons that are built by DOE, I think  
5 we're off to a dynamic start, and we're here to make  
6 this as palatable for you as possible, should you be  
7 tasked to take the exam, should the program be  
8 implemented.

9           I can only assure you of one thing; if  
10 you are tasked to take that test, and you come down to  
11 do it, you will be treated with the utmost dignity and  
12 respect. Your test is as important to us as it is to  
13 you, and it will be done that way from the beginning to  
14 the end.

15           And we do not have any unresolved-issue  
16 cases on file in the Department of Energy, because we  
17 take every effort that we can to resolve those issues.

18           And that concludes my presentation.

19           GENERAL HABIGER: Thank you.

20           (Applause)

21           DAVID RENZELMAN: Thank you.

22           GENERAL HABIGER: Thanks, Andy; and  
23 thanks, Dave.

24           We've been in the transmit mode for the  
25 last 45 minutes, and now it's time for us to go to the

1 receive mode. I'd like to call the first speaker to  
2 the podium.

3           For the record, I would ask each  
4 speaker, please state his or her name, whom you  
5 represent, before making your statement.

6           First speaker this afternoon, Stirling  
7 Colgate.

8           STIRLING COLGATE: Good afternoon. My  
9 name is Stirling Colgate. I'm a senior physicist, and  
10 have been since, I guess, 1952, in the National  
11 Laboratories.

12           I've been performing work for the  
13 federal government or in the service of this country  
14 since I was seventeen. That's 56 years, two of which  
15 are out for undergraduate work; most of the time for  
16 the federal government.

17           All that time, I have felt trusted,  
18 strongly encouraged to perform my best; and because of  
19 it, I think I've done so, not just for myself, but for  
20 the laboratories, the country, our institutions, my  
21 colleagues, and humanity.

22           I think now we're faced with a universal  
23 distrust engendered by the establishment, not just to  
24 the polygraph test, but the general xenophobia of the  
25 procedures for security.

1           We all know that polygraph tests are  
2 unreliable in finding the truth. We also know that  
3 they're unreliable in finding lies. That combination,  
4 to me, means distrust.

5           I have to project a sense of trust when  
6 I attract a young person as a J. Robert Oppenheimer  
7 post-doc fellow to this laboratory. I think it would  
8 be extremely difficult to project that sense of trust  
9 in the future of their careers with the current levels  
10 of security activities.

11           Natural selection has continuously  
12 perfected the uncertainty of lies and truth for the  
13 human species; and has done so, I guess, for some four  
14 million years.

15           That's why it is so extremely,  
16 I think, such a deep instinct to reject a technology  
17 that tries to penetrate that sense of trust with  
18 specific uncertainty, namely the uncertainty of 5  
19 percent, 1 percent, whatever you wish to put on it.

20           This perception of personal degradation  
21 has far greater impact upon our national success -- and  
22 I'm not using the word security; I'm saying our  
23 national success -- than any possible gain from  
24 deterring the possible transfer of technical data.

25           Now, what I'm going to say in these

1 few paragraphs has to do with the relative position of  
2 trying to make creative work in a national laboratory  
3 work, and to implement that creativity throughout our  
4 company, versus the requirements of security in a  
5 security agency, when an agent like Ames can cause  
6 dozens of deaths of our spies.

7           I think there's a vast difference,  
8 and I think the DOE should be in a position to act as  
9 a buffer between the misinformation of Congress on this  
10 issue and the scientific laboratories that protect the  
11 creative new thinking of our country.

12           I feel our greater security is derived  
13 from the universal, worldwide, the American culture of  
14 tolerance, diversity and generosity; and to be admired  
15 for that in this world is our power. It is not just  
16 the rockets; it is being able to get all of Europe to  
17 go along with us on something like the Yugoslav issue.

18           Secrets are a transient security.

19           Once you have done it, whatever it is,  
20 the first demonstration has unlocked the biggest secret  
21 of all: Nature. Nuclear weapons, Stealth airplanes,  
22 personal computers, integrated logic chips, Boolean  
23 algebra, are all examples of doing it once and the  
24 world follows.

25           Unfortunately, spy stories and a

1 general lack of technical knowledge necessary to  
2 understand those examples allows us to believe that  
3 secrets can be kept to our personal advantage. They  
4 just can't.

5           Our experience has shown time and  
6 time again that security based on such secrets is  
7 short-lived in a world that is universally populated by  
8 creative people; and I think I can say so because I  
9 know the heat.

10           The secrecy of military strategy  
11 certainly does have immense and overarching value, as  
12 the invasion of Normandy so dramatically illustrated.

13           However, the greatest security comes  
14 from thinking of the idea first. Our greatest national  
15 security is our culture, that nurtures that creativity,  
16 our tolerance for the outrageous, the diversity of our  
17 possibilities.

18           You know, so far we haven't sent any  
19 young kids who have busted into our computer systems to  
20 the Gulag to be hanged, to draconian jail measures.  
21 Instead we nurture them, bring them along, and foster  
22 their creativity. I think that's our job.

23           Nuclear-weapons secrets are presently a  
24 major case in point.

25           Once the fact of fission criticality was

1 established by Fermi at Stagg Field in '42, a nuclear  
2 weapon was inevitable. I understood it as inevitable  
3 when I was sixteen, just that type of information.

4 Stalin established a crash program in  
5 nuclear research within two months of Stagg Field, so  
6 much for the secret, while retreating towards Moscow.  
7 And Fuchs's information was significantly later.

8 The secrets of spy agencies are indeed  
9 very valuable information, and the most valuable  
10 information is who is a spy for us.

11 It is the defectors in our spy agencies  
12 who have done the most damage, such as the dozens of  
13 deaths of our people caused by Ames and others.

14 Rightfully, the spy agencies are  
15 paranoid about spies, and should be in that kind of  
16 activity.

17 But that same paranoia now politically  
18 applied to our major research laboratories is already  
19 greatly destructive to new and creative research.

20 If we wish to keep our country, the  
21 United States of America, strong, admired, tolerant and  
22 generous, we must reverse these security policies such  
23 as polygraph tests and foreign-national xenophobia.

24 I think we should further consider if we  
25 want to put our own spies in jeopardy.

1 Thank you.

2 (Applause)

3 GENERAL HABIGER: Thank you, sir, for  
4 your thoughtful input.

5 Our next speaker is Kevin Vixie.

6 Good afternoon.

7 KEVIN VIXIE: Good afternoon. I'm Kevin  
8 Vixie; I represent myself.

9 I have a few comments I've written, and  
10 then a couple of additional things I wrote as I was  
11 sitting there.

12 My fellow Americans -- and I address you  
13 as Americans because you are first of all Americans,  
14 and then employees of the Laboratory or employees of  
15 the Department of Energy -- I speak to you today as  
16 citizens of a country that does not believe that the  
17 end justifies the means.

18 I speak to you today as citizens of a  
19 country that has found prosperity to the degree to  
20 which it has followed principles asserting the  
21 fundamental rights and freedoms of all human beings.

22 I speak to you today as citizens of a  
23 country that, in spite of hypocrisy, in spite of gross  
24 failures, has been an inspiration to the entire world  
25 precisely because of its freedoms and its rights.

1 I speak to you today because the policy  
2 in question is not in harmony with those very freedoms  
3 and rights.

4 Polygraphic testing on a massive scale  
5 at the nuclear-weapons laboratories of this nation  
6 seems at first glance to be a justified inconvenience;  
7 but closer examination reveals that these tests not  
8 only lack the ability to reveal deception, they in fact  
9 provide psychologically abusive tools for interrogators  
10 who use them in invasive and manipulative environments.

11 A deeply healthy laboratory is a secure  
12 laboratory. Health, whether it is mental, emotional,  
13 social or organizational, is built upon trust.

14 Trust inspires trust; distrust invokes  
15 distrust. It is therefore a fundamentally flawed  
16 policy that attempts to assure security by approaching  
17 employees with an implicit attitude of distrust and  
18 suspicion.

19 A healthy laboratory, like a healthy  
20 body, recognizes danger through early signs of threat.  
21 An unhealthy body either sees no danger in those same  
22 signs, or attacks even healthy organs and cells,  
23 thereby destroying itself.

24 We should, as citizens of this country,  
25 insist that policies be put into place that permit the



1 employees to sustain an organization that promotes  
2 health of that organization and health of the  
3 individuals that make up that organization.

4           In this way, danger to the security of  
5 the Laboratory will be averted by the very nature of  
6 the organization, by the very nature of the contrast  
7 between individuals and policies that endanger security  
8 and those that pose no threat.

9           I urge each of you, as citizens of this  
10 country, to use all the means at your disposal to make  
11 known to those in Washington, and those who voted them  
12 into office, that this proposed policy is fundamentally  
13 flawed and in the end will have the opposite effect, in  
14 that it will seriously threaten the excellence and even  
15 the existence of the nuclear-weapons program.

16           And this at a time when the issues and  
17 threats are more subtle and more complicated than ever  
18 before.

19           I urge you as citizens to use the  
20 telephone, to use the fax machine, to use the post  
21 office, to use every means you can muster to make known  
22 your carefully considered opposition to this flawed  
23 means-to-an-end.

24           I urge you to remember that you  
25 are here at this laboratory for the express purpose of

1 preserving our freedoms and preserving our fundamental  
2 human rights.

3 I urge you to remember that you are  
4 citizens of the United States of America.

5 In closing, I want to add a couple of  
6 points.

7 It appears that you want us to accept  
8 the validity of the polygraph based upon authority,  
9 since there is no independent scientific evidence of  
10 the validity of the polygraph.

11 But this apparent expectation of yours  
12 is incoherent, because you have hired us precisely  
13 because we are exactly not the kind of people that  
14 accept something simply because someone says it's so.

15 (Applause)

16 Two, how is it that you have  
17 collected people to give you advice on difficult and  
18 subtle issues, implying that you hold their judgment  
19 and their ability to analyze complex situations in  
20 highest esteem, and then tell us that our virtually  
21 unanimous judgment that polygraphy is flawed is  
22 wrong?

23 That's all I have to say.

24 GENERAL HABIGER: Thank you, sir.

25 (Applause)

1           GENERAL HABIGER: I'd like to next call  
2 to the podium Chris Mechels.

3           CHRIS MECHELS: Good afternoon.

4           GENERAL HABIGER: Good afternoon, sir.

5           CHRIS MECHELS: My name is Chris  
6 Mechels. I'm vice-president of the Citizens for LANL  
7 Employee Rights. We claim to be the first and only  
8 real employee organization at Los Alamos.

9           Part of my interest, my personal  
10 interest, since about March has been actively defending  
11 Mr. Wen Ho Lee.

12           It is my belief on March 9 and since,  
13 and I've been very vocal about this, that Mr. Wen Ho  
14 Lee's rights were continuously and prominently violated  
15 by this Laboratory, by the University, and by the  
16 Department of Energy.

17           His rights as a University of California  
18 employee, his rights to due process, and his rights  
19 under Laboratory policy were all violated.

20           It appears from the evidence that people  
21 that have rights under University of California policy  
22 are confined to those with strong political support,  
23 such as he ex-Secretary Hecker. His rights were  
24 paramount; those of Mr. Wen Ho Lee counted for nothing.

25           One of the ways Mr. Lee's rights were

1 violated was in the use of the polygraph.

2           He was polygraphed, it is my  
3 understanding, twice. He was polygraphed in December;  
4 he was advised that he passed it. Whether indeed he  
5 had passed it, I don't know. They perhaps lied to him  
6 when they told him he had passed it; but he was advised  
7 in December that he had passed the polygraph.

8           Apparently his passing the polygraph was  
9 not acceptable. He was repolygraphed in February, and  
10 this time they got the answer that they needed, which  
11 was he failed the polygraph.

12           I consider that that use of the  
13 polygraph, when can anyone ever pass the polygraph if  
14 you must continue the polygraph until you successfully  
15 get the right answer, which in this case is, he failed  
16 it.

17           The other problem with Wen Ho Lee's case  
18 is the profound inequity that you're proposing of the  
19 actions upon the Chinese community and other such  
20 communities.

21           There are many Chinese who are now  
22 American citizens whose origins are in China or Taiwan.  
23 They have families in China.

24           What are you going to ask them to do?  
25 Go back ten years, and ask them who they've talked to

1 in China? That might be construed by someone in this  
2 country as being suspicious. This burden falls as a  
3 great inequity upon the Chinese.

4           And increasingly, we have staff from the  
5 Eastern bloc. It's a great inequity you're working  
6 against those people.

7           And it also works a great inequity  
8 against those who have been some of the most successful  
9 scientists at this laboratory, who have published the  
10 most and traveled the most to conferences. This seems  
11 to push people toward not publishing and not going to  
12 conferences; therefore, they won't have these  
13 suspicious contacts.

14           I don't think that's really what you  
15 want this laboratory to do, but that's the direction  
16 it's going.

17           I point out also that the Cox report has  
18 been to this point certainly discredited. The part I'm  
19 familiar with, on supercomputers, is a piece of trash.  
20 I'm a supercomputer expert. I helped designed the  
21 bloody things. It's a piece of trash. Trulock has  
22 been discredited; yet this destruction goes forth.

23           As a part of my activities in employee  
24 rights, I've represented many people in grievances. As  
25 part of that, I've had to learn a bit about the law,

1 because I had to oppose a lot of Laboratory attorneys.

2           If you bear with me for a second, I  
3 suggest to you that there is some California law that  
4 seems to imply that what you're proposing may not be  
5 legal under California law. The case I reference is  
6 Long Beach City Employees versus City of Long Beach.  
7 You can find that citation at 227 Cal. Reporter,  
8 Page 90.

9           This is a decision rendered by  
10 the California Supreme Court upon the subject of  
11 polygraphing in 1986, and what they determined was  
12 that it violated people's constitutional rights to  
13 privacy.

14           I totally agree with them. If we don't  
15 have a right to privacy, what rights do we have?

16           The right to privacy is, by the way,  
17 guaranteed under California's First Amendment very  
18 precisely, because they changed their constitution  
19 in 1974 to read "All people are by nature free and  
20 independent and have inalienable rights, among those  
21 enjoying life and liberty, acquiring, possessing and  
22 protecting property, and pursuing safety, happiness and  
23 privacy."

24           You come today and talk to us about  
25 violating our constitutional rights of due privacy.

1 There's no mistake about this. Your claim can only be  
2 that you can justify this based on recent information,  
3 because it hadn't been found previously necessary.

4           And you turn to where? The Cox  
5 report, a piece of trash; and you turn to Trulock, who  
6 is highly suspect; and use this to justify an attack  
7 upon the U.S. Constitution. I rather doubt that this  
8 is a sound approach.

9           The other thing I find illegal, and  
10 highly questionable, is that you propose to install  
11 this retroactively.

12           I say the only thing you can do that  
13 doesn't throw off a terrible odor is to say that from  
14 the day we start polygraphing, it's from that point  
15 forth that we will use it to screen; and you shouldn't  
16 be asking people about what's been going on for the  
17 last twenty years, because the rules were totally  
18 different.

19           So I suggest, furthermore, that you look  
20 at the effect of California law, because you've failed  
21 your obligation under Executive Order 12612 as soon as  
22 you involve California law.

23           I will close by saying because I believe  
24 that an attack upon the Constitution of this country is  
25 a direct attack upon this country. That is what you

1 are here today proposing, and I wish you would withdraw  
2 this terrible idea.

3 Thank you.

4 GENERAL HABIGER: Thank you for your  
5 observations, sir.

6 (Applause)

7 GENERAL HABIGER: John Pearson is next.

8 JOHN PEARSON: My name is John Pearson.  
9 I'm an employee of the Los Alamos National Lab, member  
10 of X Division.

11 I sat down to write this speech on  
12 Wednesday night, and I started thinking about all the  
13 invited scientific presentations I've given over the  
14 years; and I was wondering, how could I, in my five  
15 minutes, present the scientific case against the  
16 superstition of polygraphy so compellingly that the  
17 people that are pushing this nonsense would go back  
18 under the rocks they came out from.

19 Now, you all are going to think this  
20 is corny, but it's true. Just about that time, my nine  
21 year old daughter came in, sat down and started singing  
22 and playing The Star Spangled Banner on the piano; and  
23 it came to me that in all those talks I've given I've  
24 never once gotten to speechify like a politician.

25 I realized I could do it, and I wouldn't



1 have to insult your intelligence, and I won't have to  
2 lie to you.

3           So today I get my five minutes.

4           The polygraph interrogation of the men  
5 and women who are entrusted to ensure the safety and  
6 reliability of the United States nuclear stockpile is  
7 bipartisan political cynicism at its worst.

8           This fraud perpetrated in the name  
9 of national security will not help national security.  
10 This fraud will destroy the national laboratories, and  
11 they are the crown jewels of American scientific  
12 achievement.

13           The career bureaucrats and politicians  
14 will try to create the illusion that they've gotten  
15 tough on security at the national laboratories.

16           They'll trot the numbers out there for  
17 you, too. They'll tell you how many polygraph exams  
18 they performed last year. They'll tell you how many  
19 confessions they got. They'll tell you how many  
20 investigations they launched, and so on and so forth.

21           But the one thing they won't tell you,  
22 they won't tell you that they caught any spies. No lie  
23 detector has ever caught a spy, and none ever will.  
24 The machine's too easy to beat.

25           The CIA double agent Aldrich Ames paid a

1 half-million dollars cash for his house, staggered into  
2 work drunk each day, slurred his way through the CIA  
3 lie-detector test, and passed with flying colors; and  
4 how many widows do you suppose that polygrapher is  
5 responsible for?

6           I did mention that they would get some  
7 confessions, and you might be wondering what that's  
8 about.

9           Well, they'll badger some honest,  
10 hard-working scientist on the unauthorized-release-of-  
11 classified-information question.

12           If that scientist has been in  
13 business long enough, they'll answer something like,  
14 "I don't know; I might have slipped up once back in the  
15 late '70s, early '80s; I gave some presentations at  
16 American Physics Society meetings and I might have let  
17 a cross-section slip out; I'm not sure; I don't know."

18           Then before you know it the bureaucrats  
19 will tell the politicians, and the politicians will  
20 leak it to the New York Times, and the New York Times  
21 will pick up another Pulitzer Prize. There will be big  
22 headlines.

23           (Applause)

24           "Los Alamos scientist admits to  
25 rampant disregard for security, confesses to spilling

0187

1 bomb secrets from 1976 through 1984," would go the  
2 headline.

3           That's the kind of claptrap they're  
4 going to get out of this fiasco, and they know it; and  
5 when they tell you differently, they're lying to you.

6           No big false positives? A scientist  
7 that's as nervous as a long-tailed cat in a room full  
8 of rocking chairs is going to sit down in front of that  
9 machine, and the needle will start bouncing and they'll  
10 accuse that scientist of treason, investigate  
11 everything else with a microscope, and come up  
12 empty-handed.

13           Then what are they going to do?

14           Well, they won't renounce it. They're  
15 going to yank his security clearance; and no matter  
16 what they tell you, that is the moral equivalent of  
17 firing him.

18           So what is this going to do to the  
19 morale at the national laboratories? It will bring  
20 about an exodus from the national labs the likes of  
21 which haven't been seen since Moses. Then who's going  
22 to certify the nation's nuclear stockpile?  
23 Politicians, I guess.

24           Now, I want to mention that,  
25 although nuclear-weapons work is the primary mission

1 here at Los Alamos, we do a lot of great unclassified  
2 science here, too; Human Genome Project, AIDS research,  
3 global climate modelling, bargain-basement super  
4 fiber-optic cables a hundred times faster than  
5 the ones we have now.

6           That's a little sample, and there's more  
7 on the wall back there.

8           There's a pipeline of brilliant young  
9 scientists straight from these great unclassified  
10 research programs right into the weapons program.

11           And the politicians are trying to shut  
12 that pipeline down; and if they shut that pipeline  
13 down, you're going to kill the laboratories.

14           And the politicians are actively trying  
15 to kill these research programs. They're trying not to  
16 fund LDRD this year.

17           So by attacking the Laboratory, they're  
18 attacking a great scientific institution with a 57-year  
19 history of distinguished achievements in all areas of  
20 science; and that will be the ruin of these national  
21 treasures of ours.

22           If the politicians and career  
23 bureaucrats succeed at this, they will do far greater  
24 damage to national security than anything their lie-  
25 detector test could ever have hoped to pick up.

1           Now, I don't have a problem with  
2 security. The thing is, there are far more effective  
3 means of improving security at the laboratories.

4           These include peer counseling on  
5 security for new hires, increased computer security,  
6 which is still not where it should be, surveillance and  
7 sting operations, and many others.

8           And, although these methods won't be  
9 painless, the major point in their favor is, they will  
10 actually have a chance at preventing espionage and  
11 diminishing the actual release of classified  
12 information.

13           And I'll tell you what: We'd be glad to  
14 work with security to develop measures that would work,  
15 and would not be a slap in the faces of the honest men  
16 and women to whom you've entrusted the nation's  
17 nuclear-weapons secrets for the last five decades.

18           (Applause)

19           GENERAL HABIGER: Thank you.

20           Bill Johnson?

21           BILL JOHNSON: Thank you, sir.

22           My name is Bill Johnson; I'm a staff  
23 member at the Laboratory. I am speaking to you here as  
24 a private citizen.

25           I'd like to describe to you my

1 concerns, concerns I know to be shared by many other  
2 Lab employees, regarding the potential of the proposed  
3 polygraph program for misuse, abuse and expansion into  
4 inappropriate areas of the personal lives of those  
5 subject to this program.

6 I refer here specifically to 10 CFR  
7 Section 709.11 and the provisions contained there.

8 At the present time we have been  
9 offered assurances, which are embodied in the section,  
10 that the questions that participants are asked will be  
11 sharply limited in number and scope, and will only be  
12 expanded on if the answers to the initial questions  
13 pose problems.

14 However, we have no assurances and no  
15 reason to believe that these limitations will continue  
16 to exist once the present cast of characters involved  
17 in the administration of the program, including  
18 yourself, sir, is replaced following the next election.

19 That is, we have no assurances and no  
20 reason to believe that the interpretation of Section  
21 709.11 will continue to be narrowly focused.

22 Similarly, we have been offered  
23 assurances in this section that the personnel who are  
24 administering the test will be a small cadre of highly  
25 qualified individuals. We heard a presentation earlier

1 on that.

2           However, we have no assurances and no  
3 reason to believe that that cadre will continue to be  
4 small and highly qualified once it is realized how  
5 severe is the problem of throughput in this system.

6           The number of people involved in the  
7 system is potentially extremely large. As was cited in  
8 the presentation a few minutes ago, the number of  
9 qualified examiners is small, and so on.

10           There are other cases in which one has  
11 these assurances, and no reason to believe that they  
12 will continue to be valid in the future, if in fact  
13 they are valid at the present time.

14           To understand why these are concerns, I  
15 think it is useful to consider the PSAP program in its  
16 current incarnation.

17           I had originally prepared some  
18 remarks drawing parallels between PSAP as it's  
19 currently administered and the polygraph program as  
20 it's being proposed. In the interest of brevity, and  
21 to get back on schedule, I'll forgo some of the  
22 specifics here.

23           The key point, however, is that  
24 early assurances were given when PSAP was originally  
25 instituted at this laboratory regarding the quote-

1 unquote "value" of PSAP, in an attempt to persuade  
2 employees to enter the program voluntarily.

3           Yet, many, many employees have  
4 concluded that the representations made to them  
5 regarding the limitations on that program have not been  
6 borne out in practice as the PSAP program has evolved.

7           PSAP is not the program it was once  
8 touted to be.

9           It is larger, more consumptive of  
10 the time and energy of the participants, and in quite  
11 a few regards more intrusive than the thing that was  
12 described to employees in an attempt to get them to  
13 sign up.

14           Parenthetically, this more intrusive  
15 PSAP has already been a factor in driving employees  
16 away from jobs requiring PSAP certification, precisely  
17 conforming to the theme of diminished workplace  
18 efficiency that has already been articulated many  
19 times today.

20           Our experience with similar programs,  
21 in other words, has not given the employees of the  
22 Laboratory any assurance that the impact of the  
23 polygraph program on our lives will continue to be  
24 reasonably bounded, if in fact it ever is.

25           There is a real fear in the work force



1 that the regulations currently being proposed are just  
2 the tip of the iceberg, and that future elaborations of  
3 the program will become increasingly onerous and  
4 intrusive.

5           To counter that fear, at the present  
6 time, all that we have to go on is faith and the good  
7 will of the administrators of the program; and that is  
8 something you can't take to the bank. That check won't  
9 float.

10           I therefore put the following questions  
11 to the people on the podium here, and understand that I  
12 do so from a perspective of introspection, asking that  
13 you find answers within your own selves rather than  
14 expecting that answers be provided to us at this time.

15           And particularly to you, General  
16 Habiger.

17           You have been officer in the military  
18 for most of your life, an honorable man. You swore an  
19 oath to protect and defend the interests this country  
20 held dear even if it meant putting yourself in personal  
21 jeopardy. I respect that.

22           So are you -- and I direct this  
23 to the other people on the podium -- personally, and  
24 individually, willing to be held accountable if the  
25 assurances fail and if the program questions described

1 in 10 CFR 709.11 escalate to the point of a witch hunt?

2           If you are, what form will your  
3 accountability take, given that you hold a political  
4 appointment and that you may not be around if and when  
5 future abuses of this program occur?

6           And if you are not willing to be held  
7 accountable for those abuses, why not?

8           Those are my only remarks. Thank you  
9 for your time.

10          GENERAL HABIGER: Thank you, sir.

11          (Applause)

12          GENERAL HABIGER: Our last scheduled  
13 speaker, Ken Lagattuta; and help me pronounce that.

14          KEN LAGATTUTA: Close. Lagattuta.

15          GENERAL HABIGER: Thank you. Good  
16 afternoon.

17          KEN LAGATTUTA: Good afternoon.

18          I'm a technical staff member in X  
19 Division, where my job is to take ideas from areas of  
20 atomic and plasma physics and incorporate them into an  
21 analysis of problems of interest to the weapons  
22 program.

23          I've worked at LANL and in X Division  
24 for 13 years. Prior to that time, I was employed as an  
25 assistant professor in the physics department of the

1 University of Connecticut.

2 My views concerning the DOE's proposed  
3 polygraphing initiative for the three weapons labs, as  
4 described in entries in the Federal Register for August  
5 18, are negative. They're very negative.

6 First, the justification offered as  
7 motivation for this drastic change in investigative  
8 procedure is unconvincing to me.

9 In particular, the current security flap  
10 surrounding the possible compromise of W-88 design  
11 information by unknown sources somewhere inside the  
12 weapons complex does not seem sufficient motivation for  
13 this drastic change.

14 Indeed, as admitted by the Rudman  
15 Committee, this breach, if it occurred at all, did not  
16 necessarily happen here, or at any one of its two  
17 sister laboratories.

18 Second, I note that the DOE's  
19 polygraphing initiative, as currently revealed to us,  
20 is not yet fully defined within a very important area.

21 The actual extent of the proposed  
22 program is uncertain as it affects individuals  
23 falling into Category 6 of Section 709.4.

24 That describes, quote, "positions  
25 that DOE has determined have a need to know or access

1 to information specifically designated by the Secretary  
2 or his delegatee regarding the design and operation of  
3 nuclear weapons," unquote.

4           It is unclear whether this is intended  
5 to be a blanket category for all of X Division, say, or  
6 even for all Q-cleared individuals.

7           Now, this has been commented on already,  
8 but it certainly is an area of uncertainty.

9           However, it does appear that this  
10 category will include people beyond those in special-  
11 access programs, since they are specifically mentioned  
12 earlier in 709.4 under Category 3.

13           Of course, people already in special-  
14 access programs have previously signed statements  
15 acknowledging their willingness to be polygraphed as a  
16 condition of their obtaining access, so there's no  
17 necessary change there.

18           But thirdly, and most importantly, the  
19 polygraphing protocol described in the Federal Register  
20 is unacceptably invasive of privacy, I feel.

21           To wit, Section 709.15, Part A, states,  
22 quote, "If following the completion of the polygraph  
23 test there are any unresolved issues, the polygraph  
24 examiner must conduct an in-depth interview of the  
25 individual to address those unresolved issues,"

1 unquote.

2           Now, this smacks to me of an  
3 interrogation; and indeed this is just how the usually  
4 many-hour-long post-polygraph interview has often been  
5 described.

6           It appears to me that the post-polygraph  
7 interview is the crux of the entire polygraph protocol,  
8 and is the part which is the most offensive.

9           During this interview, or  
10 interrogation, the interviewee, or suspect, is  
11 held in isolation by the examiner and induced to  
12 provide whatever information that the examiner suggests  
13 will help him to understand the nature of the suspect's  
14 polygraph responses.

15           Now, the suspect may be induced to  
16 reveal embarrassing information, painful personal  
17 information, or information which may even compromise  
18 his Fifth Amendment rights against self-incrimination.

19           This induced information being open-  
20 ended, and therefore unpredictable at the outset, the  
21 suspect is also being asked, generally, to give up his  
22 Fourth Amendment rights prohibiting unreasonable  
23 searches; and he is also asked to do this voluntarily.

24           Furthermore, according to present  
25 entries in LANL's personnel policy manual, he will

1 be required to sign a statement absolving LANL of any  
2 legal liability should there be negative consequences  
3 to himself as a result of having submitted to the  
4 polygraph examination.

5           He must also sign this legal waiver of  
6 LANL's financial responsibility to himself,  
7 voluntarily.

8           So to conclude, I note that the  
9 post-polygraph interview is probably usually the  
10 most effective part of the entire polygraph protocol,  
11 insofar as it might be expected to produce the most  
12 information with some security import.

13           One imagines, too, that essentially  
14 always this information would be of only microscopic  
15 significance, relating to the most trivial of  
16 transgressions, and containing nothing of true  
17 national-security significance.

18           It is unfortunate, therefore, that the  
19 DOE proposes to use such a large stick to beat such a  
20 small dog; and indeed, the interview or interrogation  
21 part of the polygraph protocol seems to be by far the  
22 most obnoxious element -- and there I repeat myself --  
23 in their proposal.

24           So much do I object to this  
25 interrogation, or potential interrogation, that at

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1 this date in my career, and after having already spent  
2 thirteen years at this laboratory, I will personally  
3 refuse to be polygraphed under this protocol if I'm  
4 asked.

5 (Applause)

6 GENERAL HABIGER: Thank you, sir.

7 (Discussion off the record)

8 GENERAL HABIGER: All right; looks like  
9 we're set.

10 Let's go ahead with our first  
11 unscheduled schedule, Mahavir Jain.

12 The podium is yours.

13 (Pause)

14 Mahavir Jain?

15 Okay; next unscheduled speaker, Gary  
16 Dilts.

17 You are, sir, the first one to bring a  
18 laptop to the podium of all the Labs. I congratulate  
19 you; it means you're high-tech.

20 GARY DILTS: No, sir; it means I'm  
21 unprepared. I just finished it, and didn't have time  
22 to print it.

23 General Habiger, my name is Gary  
24 Dilts, representing myself. I'm a computational  
25 hydrodynamicist with twelve years in X Division.

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1 Thank you for hearing us today.

2 Paragraph C of Section 701.14 of the  
3 proposed rule says, or is entitled, "What are the  
4 consequences of a refusal to take the polygraph  
5 examination?"

6 It states that "If the individual is  
7 an incumbent in a position described in Section 709.4,  
8 Paragraph A, Parts 1 through 8, and refuses to take a  
9 polygraph examination, DOE may deny that individual  
10 access to the information or involvement in the  
11 activities that justified conducting the  
12 examination."

13 And that's a direct quote.

14 The probable intent is that my refusal  
15 will be equivalent to loss of my job.

16 I submit that the proposed rule is  
17 deficient with respect to the issue of countermeasures,  
18 and in fact their existence undermines the entire  
19 process.

20 It is widely known, and was admitted  
21 even in the technical presentation today, that  
22 effective countermeasures exist.

23 Will such countermeasures be allowed  
24 during the exams? If so, then I propose that the LANL  
25 general-employee training should include training in



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1 the effective defeat of polygraph exams.

2 (Applause)

3 If not, exactly what countermeasures

4 will be disallowed? Will examinees be tested for

5 drugs, or strip-searched? Will a fiber-optic camera

6 detect the position of the tongue? And how will

7 counting backwards by sevens be prevented?

8 Nowhere in the rule is it stated what

9 the consequences of applying countermeasures will be.

10 Will they be retested?

11 If countermeasures are applied again,

12 will the examinees be considered to have terminated the

13 test, which the rule states is the same as refusing to

14 take the exam? If applying countermeasures is deemed

15 deceptive behavior, does it become an unresolved issue?

16 If accused of applying countermeasures, what recourse

17 will the employee have?

18 The net result, at best, will be losing

19 your job; or at worst, suffering an FBI investigation.

20 The technical presentation indicated

21 that polygraphers will be trained to detect the

22 application of countermeasures.

23 Does this mean that DOE polygraphers

24 will be able to ignore them, and they are a non-issue?

25 What studies do you have that indicate that this is

1 possible?

2           How exactly are countermeasures  
3 detected? Were these techniques applied to Aldrich  
4 Ames? Surely it is entirely a matter of judgment by  
5 the examiner and his supervisors.

6           And herein lies the inherent unfairness  
7 of the entire polygraph procedure as proposed.

8           Any -- and I repeat, any --  
9 truthful determination is open to the accusation  
10 of countermeasures, based entirely on the judgment  
11 of the polygraphers; and the examinee must then prove  
12 he or she is not employing them, which in most cases  
13 cannot be done.

14           You simply have to take the examinee's  
15 word, "I was not counting backward by sevens." But you  
16 might as well take their word on "I did not commit  
17 espionage."

18           The existence of countermeasures makes  
19 the, quote, "test," unquote, results entirely  
20 subjective.

21           In science, you learn that a chain of  
22 logical deductions is no stronger than its weakest  
23 link.

24           General Habiger, if you require  
25 polygraph data to validate our answer to the question

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1 "Have you committed espionage against the United  
2 States," if you must require us to be connected to the  
3 machine when we answer the question, will it give the  
4 right yield when we stand before Congress or the Joint  
5 Chiefs of Staff to recertify weapon design?

6 (Applause)

7 General Habiger, I want to leave you  
8 with this question.

9 Is your trust in the answer to that  
10 primary question, which is the reason for the existence  
11 of this laboratory, and our sister labs, to rest on the  
12 opinion of highly trained, accomplished and experienced  
13 physicists and engineers, or a psychologist with a  
14 master's degree?

15 Thank you.

16 GENERAL HABIGER: Thank you, sir.

17 (Applause)

18 GENERAL HABIGER: Our next speaker is  
19 James Hill.

20 JAMES HILL: Good afternoon.

21 GENERAL HABIGER: Good afternoon.

22 JAMES HILL: My name is James Hill, and  
23 I'm speaking for myself.

24 I first came to Los Alamos in  
25 May of 1996 as a graduate student in X Division.

1 My doctoral advisor has been a consultant here for  
2 35 years, and has seen more than 30 of his Ph.D.s take  
3 positions at Lawrence Livermore, Sandia, and Los Alamos  
4 within the weapons programs.

5           With such a distinguished lineage, there  
6 was something of an expectation that I, too, would make  
7 Los Alamos my professional home.

8           So we filed the paperwork, and I got  
9 started applying for a clearance.

10           I began by filling out the questionnaire  
11 for national-security positions.

12           For those of you not familiar with  
13 this, the QNSP is a fifteen-plus-page form in which  
14 the applicant reveals personal information like date  
15 and place of birth, parents' birth, schools attended,  
16 jobs held, military service record if any; whether the  
17 applicant is a drug user, an alcoholic, a madman, a  
18 felon, or a revolutionary; whether the applicant has  
19 filed for bankruptcy or has outstanding debts.

20           All of these questions I answered  
21 honestly, and I supported my answers with the names,  
22 addresses and phone numbers of people who could verify  
23 my responses.

24           I accepted this, and indeed welcomed  
25 this as a chance to demonstrate that I was a loyal

1 American who could be trusted with safeguarding our  
2 nation's most important, and perhaps most dangerous  
3 secrets.

4           In due time, my friends, relatives,  
5 college instructors, roommates, neighbors and former  
6 landlords were all contacted. They vouched for me, I  
7 was declared trustworthy, and I entered the secret  
8 world of nuclear weapons.

9           After completing my doctorate, I chose  
10 to go back to school for more education, but I was told  
11 by my group management that if I ever wanted to come  
12 back the door was open.

13           A year later I accepted that offer, and  
14 I have been a technical staff member here for ten  
15 months now.

16           On my badge, there's a 3. That means I  
17 hold a Q clearance; and besides serving as a way to  
18 verify my identity, the badge markings serve as a  
19 personal reminder of the trust our government has  
20 placed in me, and the responsibility I have to the  
21 people of this country to uphold that trust.

22           But now I find that that trust is  
23 insufficient. I find that my government, despite  
24 having thoroughly investigated my past and my  
25 character, wants to go fishing.

1           They want to subject me to a  
2 process which has the scientific validity of dowsing,  
3 and peering at the bowels of a sheep. On the results  
4 of that process my future hangs, without any sort of  
5 redress or protection provided to me by this proposed  
6 rulemaking.

7           Others have told you today that if you  
8 proceed with the plan to mass-polygraph, the Lab will  
9 lose its best and brightest, those who currently work  
10 for the Lab and those who someday might.

11           I might not be the best, and I know I'm  
12 not the brightest; but I am good and I am bright, and  
13 there's a chance I might be lost.

14           I categorically reject the notion  
15 that the privilege of working on some of the most  
16 intellectually demanding scientific problems of our  
17 time, and working on them in defense of my country,  
18 carries with it the price of being assumed to be a  
19 liar, a spy, or a traitor.

20           (Applause)

21           If there is so much as a hint or a rumor  
22 that I have betrayed the trust my country has placed in  
23 me, I will gladly cooperate with the investigating  
24 authorities, up to and including a polygraph  
25 examination.

1           Absent such compelling circumstances,  
2 I will refuse any and all offers to take a, quote,  
3 voluntary, unquote, polygraph examination under the  
4 rules now proposed. I do this though the price will  
5 undoubtedly be my clearance and, despite management  
6 guarantees, my job.

7           This spring's report of the Presidential  
8 Foreign Intelligence Advisory Board slammed the weapons  
9 complex pretty hard for security violations. Phrases  
10 like "culture of arrogance" and "willful disobedience"  
11 were thrown around.

12           It is entirely possible that you are  
13 interpreting today's objections to the proposed plan of  
14 mass polygraphy as just one more sign of that arrogant  
15 culture.

16           Let me assure you they are not.  
17 The thoughts shared here today, and at our companion  
18 labs earlier this week, are the legitimate protest of  
19 citizens whose concerns for national security are being  
20 dismissed in favor of a soundbite-friendly solution  
21 which threatens the work by threatening the people who  
22 do it.

23           Thank you for your time and attention.

24           (Applause)

25           GENERAL HABIGER: Thank you, Dr. Hill,

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1 for your thoughtful input.

2 Ron Moses is next.

3 RON MOSES: Thank you, sir.

4 My name is Ron Moses; I have worked at  
5 the Laboratory for 23 years.

6 One of the previous speakers referred to  
7 Moses. I don't know that he expected to see Moses this  
8 soon.

9 (Laughter)

10 But getting down to something a little  
11 more serious, I obtained my first clearance for the AEC  
12 at about a year older than when Dr. Stirling Colgate  
13 received his. He said seventeen; I got mine at age  
14 eighteen.

15 I'm very experienced in dedicating my  
16 adult life to science. I am very experienced in the  
17 world of the security clearance, the AEC culture, the  
18 DOE culture; let's not forget the ERDA culture. These  
19 are things that were part of my culture growing up in  
20 an AEC town, Ames, Iowa, back in the '40s.

21 So these are things that I accept, I  
22 understand, and it's a part of my culture.

23 I am nevertheless deeply concerned with  
24 the polygraphing program at such a large scale in the  
25 DOE complex.



1           Let me emphasize: If I or many other  
2 people whom I know here at this laboratory had chosen  
3 to go into the intelligence community -- the CIA, you  
4 name it, NSA, whatever -- polygraphs are a part of the  
5 culture there. That is something that is understood.

6 It has been understood by me for decades.

7           That's just part of the culture. It's a  
8 little bit of the thrill. You go in; Can you take it;  
9 Can you pass it? It's a part of that life.

10           Here in the Laboratory, there is  
11 an element of that. There are some places that you  
12 know, as well as I, that do involve intelligence, and a  
13 polygraph is essential. Once again, that is a part of  
14 the culture.

15           But if you go out of the weapons  
16 program, if you go into the wider program, the human  
17 genome program, where virtually everyone who is not a  
18 foreign national must have a Q or L clearance: If you  
19 go into that part of the Laboratory, there is a very  
20 different culture.

21           These people, myself included,  
22 are quite a different breed of cat, so to speak. There  
23 is a culture of intellectual adventure, intellectual  
24 freedom, academia. Let's face it; that culture is  
25 there.

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1           There is arrogance to some extent.  
2 It is not a mean arrogance; it is a proud arrogance.  
3 It is an arrogance because I am here; I am an expert; I  
4 try to do my job extremely well. That culture is  
5 there.

6           The polygraph program is something that,  
7 in that culture, is seen as highly invasive. It's  
8 something that adds enormous concern.

9           My concern here today is not for me  
10 personally. If you add up my age, from my comments,  
11 I'm in my late fifties. I will take the polygraph.  
12 Yes, if I need to, I will take it. And I assume  
13 I will pass it; I certainly expect to.

14           But if I don't, I have enough  
15 confidence, enough credentials, enough diversity;  
16 I can walk away and be very well employed. So I am  
17 not concerned about myself personally.

18           I am concerned about the national  
19 laboratory system, the national weapons and defense  
20 programs. That is what deeply concerns me. Because a  
21 young person, like the young man, considerably younger  
22 than I, who just spoke, these folks come in; if they  
23 come in and take that exam and don't pass it, they  
24 don't have to live with it for a few years in their  
25 late fifties, sixties, et cetera, as somewhat of an

1 interesting anecdote.

2           That can influence their careers from,  
3 say, age twenty-five or thirty. Twenty-five, you've  
4 got forty years. That can influence their lifelong  
5 career. It's an enormous impact.

6           The best people that we see and  
7 attract to this laboratory, we want to get the very  
8 best. These are the people who have alternatives.

9           I know for a fact from discussions that  
10 I have had with other people that the polygraphing  
11 program, no matter how scientific it is, its very  
12 inherent nature of potential error, realistic potential  
13 error, this is going to be enough to turn away the  
14 lion's share of the best young people from this  
15 laboratory.

16           That is my concern: The young people  
17 will, by and large, go elsewhere. They have the  
18 alternatives.

19           We here at this laboratory, by and  
20 large, believe this. Most of us have arrived at this  
21 understanding individually, not collectively.

22           So my concern is because our national  
23 defense program is going to suffer greater damage with  
24 the polygraph program and the people it loses than it  
25 is going to suffer with the risk of information leakage

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1 if the polygraph program is not there.

2 Thank you very kindly.

3 GENERAL HABIGER: Thank you, sir.

4 (Applause)

5 GENERAL HABIGER: Next I'd like to call

6 Galen Gisler. This is his second visit to the podium;

7 he spoke to us this morning.

8 Welcome back.

9 GALEN GISLER: Thank you.

10 Once again, I'm Galen Gisler, and I

11 represent only myself.

12 After reflecting on all I heard today --

13 and thanks for the indulgence for allowing me to speak

14 again -- I wanted to share with the panel and the

15 audience a short parable from history of the road I

16 think we might be going down.

17 Edward Gibbon wrote in the late 1700s a

18 massive work entitled *The Decline and Fall of the Roman*

19 *Empire*, in which he chronicled the many ways in which

20 well-intentioned people contribute to the collapse of a

21 civilization.

22 An example which offers great parallels

23 to our own situation is the case of Greek fire, which

24 was almost certainly the best-kept national defense

25 secret of all time.

1           Greek fire was a chemical compound  
2 that could be propelled by catapult into an attacking  
3 naval fleet. It ignited on contact with water, and  
4 effectively made the Byzantine capital of  
5 Constantinople invulnerable to attack by wooden ships.

6           The stockpile of this compound was  
7 carefully guarded and maintained by those who might be  
8 called the Byzantine weapons scientists, and the secret  
9 of its formulation was passed on privately by word of  
10 mouth from tutor to apprentice over hundreds of years.  
11 Nothing was ever written down.

12           As soon as a scientist was perceived to  
13 be too much a free thinker, he was summarily executed,  
14 without benefit of defense or appeal.

15           I said "he" because they were  
16 exclusively male; but even that pronoun is not strictly  
17 speaking correct, because these individuals in order to  
18 be immune from personal entanglements were invariably  
19 castrated.

20           You can read about this in Gibbon's  
21 book, and it's well-footnoted with references to  
22 original documents.

23           This draconian technique for  
24 safeguarding classified material clearly worked.  
25 The secret of Greek fire died with the Byzantines; and

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1 we do not to this day know precisely what compound they  
2 used.

3           But where are the Byzantines now?  
4 If they were so successful at protecting classified  
5 information, far more successful than we can ever hope  
6 to be, why are they not today the dominant superpower  
7 on this planet, as they were once?

8           We all know history well enough to  
9 remember in 1453 the fall of Constantinople due to  
10 Turkish artillery, against which the Byzantines had  
11 neither defense nor countermeasure.

12           We can only wonder how many of those  
13 executed freethinkers might have tried to warn their  
14 government about the possibility of technological  
15 surprise, and the dangers of too much constraint  
16 on the pursuit of science.

17           Thank you.

18           GENERAL HABIGER: Thank you.

19           (Applause)

20           GENERAL HABIGER: Jeff Hollander?

21           The podium is yours, sir.

22           JEFF HOLLANDER: My name is Jeff  
23 Hollander. I'm very low-tech here this afternoon,  
24 General Habiger. I'm nervous, but I'm going to tell  
25 the truth.

1 (Applause)

2 I'm here on my own as a private citizen.

3 I am employed as a UC staff member in the NMT Division  
4 at the Los Alamos plutonium facility.

5 I first received, initially received, my  
6 Q clearance when I was twenty-three years old in 1972.  
7 I've had other clearances for several years now; I've  
8 been PSAPed to maintain my position at the plutonium  
9 facility.

10 I came here this afternoon on my own  
11 time to hear public comment on the issue at hand, and  
12 not intending to speak, and obviously was not on the  
13 agenda initially.

14 I was disappointed and surprised  
15 to discover that I would be lectured to about the  
16 polygraph without benefit of alternative perspectives  
17 or questions. I was annoyed.

18 Like, why are polygraphs not legally  
19 advisable evidence? Why did we not hear something like  
20 that?

21 I'm also disappointed because the  
22 regulation has not yet clearly defined what job  
23 categories will be polygraphed.

24 I see this as a less-than-forthright  
25 technique, since we cannot know who will be affected,

1 and therefore who should be notified to comment here or  
2 in writing. Therefore, I remain suspicious about the  
3 motives and validity of the entire process.

4           General, are you so sure that you know  
5 what is being done here? I am not. Table the process.

6           GENERAL HABIGER: Thank you.

7           (Applause)

8           Gary Sandine has the podium.

9           GARY SANDINE: Good afternoon.

10           My name is Gary Sandine, and I represent  
11 myself, and perhaps some others like me who aren't here  
12 today, and don't know about it. I appreciate having  
13 the chance to talk about this.

14           This is all quite extraordinary. I've  
15 only been here for two months now.

16           I got here, I just earned a master's  
17 degree in mathematics, and had a chance to come here  
18 for a year before I go get my Ph.D., and this is by  
19 far, the atmosphere now, is the best thing I could  
20 have done, without a doubt.

21           I'm having a great time here, and the  
22 people are incredible. And I hope that doesn't change,  
23 because I will go and finish my degree and, you know,  
24 without a doubt, if these things unfold as they could  
25 in their worst, I certainly won't be here.



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1 I won't come back here; I'll make sure,  
2 because I have other things to do. And I'm, of course,  
3 beyond expendable. But there are more like me, and so  
4 on, and I'm just a specific example of that.

5 I had never heard a presentation like  
6 that which began this afternoon's session, either; and  
7 I have no doubt that the polygraphy training is done at  
8 the best that we can do now. I mean, I have no doubt  
9 with that.

10 But humans are complicated, and I don't  
11 even know what an emotion is, and I can be hooked up to  
12 a box and it can tell me what I'm feeling? I don't  
13 understand.

14 I don't mean to be cynical, but I can't  
15 help it.

16 (People chuckling)

17 Again, that type of science is hard,  
18 I think. Mathematics is surely much easier than that.  
19 I immerse myself in something I know nothing about; and  
20 when I'm done I know if I have it. I know without a  
21 doubt. And I have a hunch that polygraphy science is  
22 not that way.

23 And talk of certifications and so on, by  
24 yourself, I guess, I don't understand.

25 I'm not one to be offended, but these

1 are just some observations; I don't understand how such  
2 comments could be made to an audience like this,  
3 anyhow.

4           Along with, we have progressed enough to  
5 know how to beat the book than anyone could download  
6 off the Internet now; but I also kind of think anyone  
7 who is truly of danger does not have to download a book  
8 off the Internet to learn how to beat the polygraph.  
9 It's probably more advanced than that. I know nothing  
10 about it; I wasn't interested before this.

11           But again, if that's the best we can do,  
12 so be it.

13           And I know it looks good, too, in  
14 the newspaper stories, and so on, if it gives certain  
15 politicians a chance to say the right words, "I'm tough  
16 on security, and helped to institute polygraphy at the  
17 national labs," and so on.

18           If that needs to be, I'd understand,  
19 because things often seem to work that way; but to  
20 preserve the dignity of the many brilliant folks whom I  
21 have met here, I think there are some questions about  
22 having lawyers present at interrogations and so on that  
23 haven't been addressed.

24           And I understand the answer is no right  
25 now, and I'm not sure why; but there are some pretty

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1 clear questions like that that people have made clear,  
2 and I think those should be addressed if these types of  
3 tests are going to be implemented at the national  
4 laboratories.

5 Thanks again for the time to speak.

6 I appreciate it.

7 GENERAL HABIGER: Thank you, sir.

8 (Applause)

9 Andy?

10 Our next unscheduled speaker is Dick

11 Burick.

12 Dick?

13 DICK BURICK: My name is Dick Burick.

14 I'm Deputy Director for Operations, and

15 I'm representing the Laboratory this afternoon.

16 First of all, General, thanks to you

17 and your team for coming here today to listen to the

18 concerns of all our employees and other speakers.

19 We genuinely appreciate that.

20 I'd also like to say thank you to all

21 the speakers this morning and this afternoon for all

22 the time and effort that you put in to give us some

23 very thoughtful and considered suggestions.

24 General, I don't need to tell you, you

25 listened to all these speakers; the anxiety levels are

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1 very high. The employees' concerns are real; there's  
2 no question about that.

3           However, I know that, as I followed  
4 your career in the military, you're a very fair and  
5 insightful leader; and I'm confident that you will take  
6 what you heard today and go back home and incorporate  
7 it into the process to improve it and to do the very  
8 best, as far as being fair to the nuclear-weapons  
9 workers of all the laboratories.

10           Again, I thank you for coming here  
11 today.

12           GENERAL HABIGER: Thanks, Dick.  
13           (Applause)

14           Ladies and gentlemen, that's the last of  
15 our unscheduled speakers.

16           However, the rules of engagement  
17 dictate, and I agree 100 percent, that we will remain  
18 in the area until 1800 hours local, which is our  
19 published time for this public hearing.

20           So we will go into a recess mode now  
21 until we have any additional speakers; and then if we  
22 have some, we'll reconvene. If we have no further  
23 speakers, we will recess this public hearing at  
24 1800 hours.

25           Thank you very much.

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1           {Recess taken}

2           GENERAL HABIGER: Ladies and gentlemen,  
3 the panel is hereby reconvened.

4           We have an additional unscheduled  
5 speaker, Michael Soukup.

6           The podium is yours, sir.

7           MICHAEL SOUKUP: Thank you, General, and  
8 ladies and gentlemen, for allowing me to speak.

9           My name is Michael Soukup, and I'm a  
10 computational scientist at Los Alamos. I've been here  
11 fourteen years.

12           I came out of the Air Force. I left as  
13 a major, and I wanted to come here and be a scientist;  
14 and so I did a massive career change.

15           During the time that I was in the Air  
16 Force, I had access to extremely sensitive information.  
17 I worked at the Air Force Weapons Lab, and for a while  
18 was a technical intelligence analyst there, and by  
19 virtue of that had access to this information.

20           At no time during my tenure in the Air  
21 Force -- and, by the way, I'm still a reservist in the  
22 Air Force, with the rank of major -- have I ever been  
23 polygraphed. People always trusted me to be careful  
24 with what I learned, and not to engage in anything that  
25 I shouldn't engage in.

1           Up until about a year and a half ago, I  
2 worked in the Weapons Design and Technology Group here  
3 at the Laboratory.

4           This group is the group that studies  
5 foreign nuclear-weapons design and testing efforts  
6 worldwide; and in a part-time role I assisted in the  
7 espionage investigation which has ultimately led I  
8 think to this hearing today.

9           I was a junior partner in that effort.  
10 I was not the leader of the effort; I was not in on the  
11 effort from the beginning.

12           But I was briefed into the  
13 various compartments that pertain to much of the  
14 investigation, and my job was to provide data to the  
15 counterintelligence people to aid them in their work.  
16 As I say, it was a part-time job.

17           I did not personally see any evidence  
18 that said that Los Alamos was a source of the leak of  
19 classified information about the weapons program, or  
20 any of our weapons.

21           GENERAL HABIGER: Let me just make sure  
22 you understand, this is an unclassified forum.

23           MICHAEL SOUKUP: That's correct; I do  
24 know that.

25           That's my belief. I did not know the

1 name of the individual who was the primary suspect; but  
2 again, I did not see anything that I felt indicated the  
3 Laboratory or any specific person here was the source  
4 of classified information going to China or any other  
5 country.

6           So I was very surprised, in any case,  
7 when the story began to break in February and March of  
8 this year about the so-called spy scandal.

9           And now we're in an attempt to beef up  
10 security; many of us are faced with taking a polygraph  
11 examination.

12           What bothers me about the polygraph  
13 examination is really the manner of application.  
14 You've heard an awful lot today about the scientific  
15 and technical validity of the polygraph. I don't think  
16 most people here believe it's a very valid tool, But  
17 I'm concerned about the application of it.

18           When I did a change of station at  
19 the CIA a few years ago, everyone had to take the  
20 polygraph. There was no discrimination. Didn't matter  
21 what your rank was; you had to take the polygraph.  
22 Oddly enough, I didn't have any heartburn with that.

23           But what I feel today is that some  
24 number of us, and we don't really know who we're going  
25 to be, will be asked to take this polygraph; yet the

1 Secretary of Energy apparently has the power to waive  
2 the polygraph for some people he deems fit to be waived  
3 from that requirement, and he can also apparently  
4 change the judgment, if I understand the reading  
5 in the Federal Register correctly.

6           Right there, that seems to me to open up  
7 a security hole, because some high-ranking person can  
8 get through the polygraph. He won't have to take it,  
9 he or she won't have to take it; and that's a potential  
10 vulnerability.

11           Presidential appointees don't have to  
12 take the polygraph, I believe, according to the Federal  
13 Register.

14           Again, as we've seen over the  
15 last 50 years, there have been high-ranking people  
16 in the United States government, and also in European  
17 governments, with access to nuclear-weapon information;  
18 and they've been found to be spies, traitors.

19           So the bottom line is that the test has  
20 already lost its validity as a security tool simply  
21 because there will be an awful lot of people who won't  
22 have to take it; and in any case, the results can be  
23 overturned at an administrative or managerial level.

24           That essentially is my concern about it.  
25 I don't think I've heard that expressed today; I've



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1 only listened to the procession of these hearings on  
2 Labnet this afternoon.

3 But my concern is that the test is in  
4 a sense an eyewash exercise. If there are spies here,  
5 and our job is to try to detect or deter such spies, I  
6 don't think the program is really going to work as it's  
7 structured, as I understand it.

8 Thank you, sir.

9 GENERAL HABIGER: Thank you, sir.

10 (Applause)

11 Sir, I'll let you speak as soon as you  
12 sign at the desk. We need to get you on record here.  
13 This is a very formal process.

14 Give me about 30 seconds for Andi to  
15 come down and give me the piece of paper, and then  
16 you're on.

17 (Pause)

18 Bernie Foy? Is that your name, sir?

19 BERNIE FOY: Right.

20 GENERAL HABIGER: The podium is yours.

21 Thank you.

22 BERNIE FOY: Thank you.

23 My name is Bernie Foy; I've been a  
24 technical staff member in the Chemistry Division here  
25 for ten years. I'd just like to make a few comments.

1           This morning, in one of the  
2 presentations, we saw a quotation from David Lykken's  
3 book, A Tremor in the Blood. This is one of the major  
4 books criticizing polygraph testing.

5           The quotation was used in the context  
6 of saying, gee, even the strongest critics of polygraph  
7 testing have acknowledged that maybe it can be used to  
8 some extent as a screening procedure.

9           Unfortunately, the quotation ended  
10 before the following sentence, and this comes  
11 immediately after that quotation.

12           "As we shall see later, however, there  
13 is reason to believe that many honorable people, very  
14 sort of straight arrows, that we should like to see in  
15 these sensitive positions, are especially vulnerable to  
16 failing and being eliminated by these screening tests."

17           So I would like to suggest that  
18 if polygraph testing is expanded at the national  
19 labs, you're going to be finding a lot of straight  
20 arrows, a lot of people who have trouble answering  
21 these questions that they've never had to answer  
22 before, and to have their loyalty being questioned in  
23 such a manner.

24           Let me also make a few other comments  
25 about the proposed rule.

1           In the background section of the  
2 proposed rule, it mentions that this polygraph testing  
3 is being motivated by Presidential Directive 61.

4           In fact, if you look at Presidential  
5 Directive 61, it does not mandate polygraph testing at  
6 the national laboratories.

7           In fact, what it says, in a paragraph  
8 near the end of the directive, where it's talking about  
9 the need for stricter measures at the national labs to  
10 protect security, it has the following sentence: "Such  
11 measures may include financial disclosure, reporting of  
12 foreign travel, the establishment of special access  
13 programs where appropriate, and use of polygraph and  
14 psychological screening."

15           Now, that language to me does not  
16 mandate polygraph testing; so this is a choice the DOE  
17 has made, which I think is not a wise choice.

18           I think the correct thing for DOE to do  
19 at this point is to undertake an exhaustive study of  
20 the validity and utility of polygraph testing at the  
21 national labs, and then report back to the President  
22 with its findings.

23           And I think, if that study is exhaustive  
24 and if it's scientifically defensible, that you will  
25 find that it is not of very much use in detecting

1 espionage at the national labs.

2           In addition, there is a statement in the  
3 background section of the proposed rule that says there  
4 are, quote, "no scientific studies that establish that  
5 polygraph examination results are unreliable."

6           That statement is incorrect, quite  
7 frankly incorrect. This book, which I'm sure you have  
8 heard about, A Tremor in the Blood, by David Lykken, a  
9 professor of psychology at the University of Minnesota,  
10 is a careful scientific critique of polygraph testing;  
11 and it has many, many references in the book that  
12 present clear scientific evidence that polygraph  
13 testing is unreliable.

14           The last thing I would like to say is  
15 that I would like to see, if polygraph testing does  
16 take place at the national labs, I think that the  
17 numerical scores resulting from tests on individuals  
18 should be publicized or published in an anonymous  
19 fashion, so that one can see the distribution of test  
20 scores that have resulted.

21           That way, when I take my test, and I'm  
22 told what score I have achieved on that test, I can  
23 compare myself with the distribution that has resulted  
24 from, say, some large number of tests before me.

25           That will allow me to understand if I'm

1 four standard deviations above the mean, if I'm close  
2 to the mean, whatever.

3 I think that kind of openness could be  
4 injected into this procedure, and give people a lot  
5 more confidence in it.

6 Thank you.

7 GENERAL HABIGER: Thank you, sir.

8 Our next unscheduled speaker, John Finn.

9 Good evening.

10 JOHN FINN: Thank you, General, for  
11 letting me talk at this late time of day.

12 My name is John Finn. I'm a technical  
13 staff member in a theoretical division, but I represent  
14 myself only.

15 A well-known example in statistics of  
16 how tricky things can be is the case of the situation  
17 of AIDS testing of a general population.

18 It's well-known that it makes no sense  
19 to test the general population, especially in a country  
20 like the United States where AIDS is rare, because a  
21 chance of a false positive is much greater than the  
22 chance of finding somebody with AIDS in the general  
23 population.

24 The only effective thing is to test the  
25 few people who have really high risk factors for AIDS.

1           My daughter was taking statistics in  
2 college, first-year course this spring; and after she  
3 had been in the class for a week, I said, "Here's an  
4 interesting thing you should bring up in class."

5           She said, "Dad, they told us that the  
6 first week. This is well-known."

7           I'm suggesting that the same thing  
8 applies to testing in this general weapons-research  
9 population, people who are not generally already under  
10 suspicion for something. It's about the same thing:  
11 The probability of a false positive is, if anything,  
12 higher with a lie-detector test, and the fraction of  
13 people working in defense work at this Lab that are  
14 actually spies is a very small fraction, if there are  
15 any at all.

16           When I take this conclusion coupled with  
17 the possibility that a real spy can be prepared by the  
18 bad guys or can be screened to be someone who takes  
19 detector tests very well, and couple that with the  
20 uncertainty of what happens to an employee who has an  
21 unresolved positive here, I just come to the conclusion  
22 that it's much more damaging to continue with the  
23 lie-detector test than not to.

24           Thank you.

25           GENERAL HABIGER: Thank you, sir.

1           A revisit to the podium from the earlier  
2 session, Kevin Vixie.

3           KEVIN VIXIE: I'm Kevin Vixie, and I'm  
4 speaking for myself. Also, although not officially, I  
5 want to speak on behalf of the students here at the  
6 Lab.

7           I came here a year and a half  
8 ago to finish my dissertation, and I found that the  
9 environment was maybe better than I expected. It was  
10 an incredible environment, in which I believe I can  
11 thrive.

12           I found that, being here as a graduate  
13 student, I had a better position than many friends who  
14 might be assistant professors other places.

15           I found that I could attract; as a  
16 student, I got a couple students to come. I've started  
17 various things, had visitors come; Incredible things.

18           Yet I know that much of that that I've  
19 done would be impossible if conditions in the Lab were  
20 what they seem they might be. At least it seems to me  
21 that this incoherence in the polygraph testing will  
22 have to be removed.

23           I believe at this point, as it stands,  
24 as it seems the test would be, I would refuse to take  
25 one; but I'm not unreasonable. Even though I don't

1 like these tests, if they were designed in such a way  
2 that I felt my rights as a citizen were protected, I  
3 would probably take them.

4           If I could have a lawyer present, if  
5 various things happened, I would probably take them.  
6 You know, I'll compromise. I don't believe that it  
7 makes sense for me to take some extreme position.

8           But it's not extreme to insist on my  
9 rights; because I understand what we're here for is to  
10 help with an activity that ensures everybody's rights.

11           And for students, I think it's  
12 really critical, because good students have options.  
13 I personally have friends who have left direct-funded  
14 post-docs because of conditions at the Lab. That was a  
15 big factor in their thinking.

16           That's not good. That's not good.  
17 I just don't like that.

18           I have a friend right now who's getting  
19 a Ph.D., who, ask anybody; I'm always talking up the  
20 Lab. I'd like him to come. He has reservations about  
21 working for the defense, and I keep telling him that  
22 that's the kind of people we need here, because we  
23 don't want people that just want to blow up the world.

24           We want people who have big reservations  
25 about doing this, and that way they'll be much more



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1 careful.

2           And he's listening to me. But I know  
3 that if things proceed as they seem like they might,  
4 that's a lost case; I won't get him in here.

5           So I have those concerns, and I just  
6 want to make sure that you know that students, who I  
7 think are the lifeblood of the Lab, or any place, will  
8 be very deeply affected by this.

9           That's in addition to the other things,  
10 the foreign-nationals and the things like travel money.  
11 The idea that Washington thinks because travel money is  
12 just vacations, when for scientists going somewhere and  
13 making connections, one of the biggest possible  
14 contributors outside of the Lab that I've gotten to  
15 work with, the group we're working with, I met at a  
16 conference I went to in San Antonio.

17           I didn't give a paper, but I made this  
18 enormously valuable connection there that will remain  
19 with me.

20           So those kinds of things, that kind of  
21 misinformation that gets out there needs to be  
22 countered some way.

23           So, anyway, I just wanted to let you  
24 know those concerns.

25           Thanks.

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1           GENERAL HABIGER: Thank you.

2           We don't have any additional unscheduled  
3 speakers at this time. We still have 19 minutes to go.  
4 We will again go into recess, and if we get any more  
5 speakers we will offer them the podium.

6           Thank you for your patience.

7           {Recess taken}

8           GENERAL HABIGER: Dr. Soukup has asked  
9 for a follow-up.

10          The podium is yours.

11          MICHAEL SOUKUP: Thank you.

12          My name is Mike Soukup, and I'm here  
13 representing myself, although I am employed by the  
14 Laboratory.

15          I just wanted to recap thing things I  
16 think are really important from what I know of the  
17 earlier proceedings of the hearings today.

18          There seem to be, in my view, three  
19 major objections to the polygraph program that's being  
20 set up.

21          One is because the tests are  
22 scientifically and technically invalid; and again,  
23 I think you've heard an awful lot about that today.

24          People are very concerned about the  
25 validity of the test. They believe it appears to be

1 largely subjective measurement, in the end, in the  
2 final analysis; and they're worried about putting their  
3 lives and careers on the line for such a test.

4           The second major concern seems to be  
5 what I was alluding to during my first visit to the  
6 podium a little bit ago.

7           That is because the program, as I  
8 understand it, in its structure, there seem to be a lot  
9 of holes in it. An awful lot of people will not have  
10 to take the test even though it's certainly possible  
11 they would have access to valuable information, and  
12 could be a spy or whatever.

13           And the fact that various people in  
14 government apparently do have the power to make their  
15 own determinations of who should or should not take the  
16 polygraph, and make a determination on the validity of  
17 the results, seems to me to be a major flaw in that  
18 program.

19           I think, if the idea is to deter a spy  
20 or find one, again, I think there you just have too  
21 many holes in that program; and I don't think there's  
22 any way that one can guarantee that one will weed out  
23 such people through the polygraph examination as the  
24 program is currently set up.

25           The third objection I hear -- and again

1 I think you've heard this probably a bit today, and I  
2 think it's worth recapping -- I think many people here,  
3 including myself, believe that the program is really  
4 motivated by bad politics, and a sense of hysteria in  
5 Washington over this alleged spy scandal.

6           And Secretary Richardson, I believe  
7 -- and I hope I'm not misquoting him -- tells us that  
8 we need to do these things to regain the faith of the  
9 American public in us, because we are competent,  
10 capable, secure, and because we're not a den of spies.

11           And I'm not so sure I really believe  
12 that the American public, nationwide, really believes  
13 that.

14           I think the bottom line, personally --  
15 and again, many of my colleagues -- is that the tests  
16 are really politically motivated by national-level  
17 politics going on in Washington, and a sense of  
18 hysteria and almost McCarthyism from the early to  
19 mid-'50s.

20           Those are the three major points I  
21 wanted to make, and I think probably embody most of the  
22 objections to the test here. If I'm wrong on that, I'm  
23 sure I'll hear by Monday morning from phone calls and  
24 e-mail; but somebody's always got to get the last word  
25 in, and I always like to be the last guy to do it.

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1           So, it's 6:00, 1800. Thank you very  
2 much.

3           GENERAL HABIGER: Thank you,  
4 Dr. Soukup.

5           Before we adjourn, let me on behalf of  
6 the entire panel thank the Los Alamos National Lab for  
7 their warm hospitality in putting on this public  
8 hearing.

9           It's a very important process we're  
10 going through. We gained some invaluable insights from  
11 the discussion today, the inputs today.

12           Obviously, there are some  
13 concerns. We'll take those concerns, obviously,  
14 into consideration. There are some procedural issues  
15 that have been raised regarding the language in the  
16 proposed ruling; we'll take those into consideration.

17           This is what America is all about.  
18 When the government says we're going to do something,  
19 the people get to speak; and you have participated,  
20 those of you remaining, in that process.

21           And so we thank you for your duty as  
22 American citizens. It is 1800 hours; we have no  
23 additional speakers. I hereby declare this hearing  
24 adjourned. Thank you.

25           (Hearing adjourned at 6:00 p.m.)

1

2 STATE OF NEW MEXICO

3 COUNTY OF SANTA FE

4

5 CERTIFICATE OF REPORTER

6

7 I, Janis T. Young, New Mexico CCR #10,

8 DO HEREBY CERTIFY that I did report in stenographic

9 shorthand the proceedings set forth herein; and that

10 the foregoing is a true and correct transcript of said

11 proceedings.

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