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NUCLEAR REGULATORY COMMISSION

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Massachusetts Institute of Technology
Exit Interview

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Pages 1-24

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ADDENDUM/ERRATA SHEET

PageLineCorrection and Reason for Correction

No comments on this document

Page 11

Date

11/13/15

Signature

J. D. Harnett

ADDENDUM/ERRATA SHEET

Page	Line	Correction and Reason for Correction
2	15	"opened" should be "open" as in "open to the public"
7	2	"100 to 2090" should be "100 to 200" - based on my notes in preparation for the exit
7	23	"vile" should be "vial" similar sounding words

Page _____

Date

10/27/45

Signature

John E. Glen

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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INCIDENT INVESTIGATION TEAM

+ + + + +

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

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WEDNESDAY, OCTOBER 25, 1995

NRC STAFF PRESENT:

- JOHN GLENN
- ALAN MADISON
- SAMI SHIRBINI
- BETSY ULLRICH

ALSO PRESENT:

- DAVE LITSTER
- FRANK MASSE
- MITCH GALANEK
- CHRIS DALY
- DANIEL FLYNN
- JENNIFER GOREN

P-R-O-C-E-E-D-I-N-G-S

(10:05 A.M.)

MR. GLENN: I'd like to begin the exit interview at this time. Good morning. My name is John Glenn, and I represent the Nuclear Regulator Commission's Incident Investigation Team, which is reviewing a P-32 internal exposure, which occurred to an MIT researcher this last August.

This is an exit interview with MIT. And at the conclusion -- it's at the conclusion of our initial on-site activities. This does not conclude the activities of the team itself, but we will be leaving and going back to our headquarters organization at this point.

This is an exit interview with MIT. It is opened, but members of the public will -- are invited to be here as observers. However, the exit being between the two of us, during the exit itself, I ask that you only observe and not ask questions.

However, at the close of the exit, I will invite questions from people in the audience and try to respond as well as I can.

I will note that the meeting is being transcribed, and a copy of the transcript will be available after the team has completed its report, which might be 40, 45 days from now.

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1 Just for the record, I'll note that today is
2 October 25th. It's approximately 10:05 in the morning.
3 And as I said, I'm John Glenn. I work normally in the
4 NRC's Office of Regulatory Research.

5 And at this time, I'd like the representatives
6 of MIT who will be participating in the exit interview to
7 identify themselves and their position.

8 MR. LITSTER: Yes, I am David Litster,
9 Professor of Physics and Vice President for Research at
10 MIT.

11 MR. MASSE: I am Frank Masse. I'm MIT's
12 Radiation Protection Officer.

13 MR. GLENN: Okay. Just to remind MIT, and to
14 also inform members of the public who may be attending, I
15 will recap just a little bit of the history and pose of
16 the incident investigation team.

17 The team was formed on October 17th and
18 arrived at MIT the same day. The decision to form an IIT
19 was based on MIT's notification to our Region I Office on
20 October 16th about an internal exposure to P-32 which
21 occurred last August.

22 Although this reported intake of P-32 would
23 not result in an exposure in excess of NRC limits, the
24 report at whole body dose was close to the annual limit.
25 And the circumstances of the exposure included the

1 possibility that the individual was deliberately exposed.

2 Further, ingestion of such a large quantity of
3 P-32 is rare. And this is the second such event in a few
4 months.

5 As we indicated at our entrance interview, the
6 purposes of the team are to establish what happened, to
7 identify probable causes, and to document our findings and
8 conclusions, and issue a report in about 45 days.

9 The purpose of this team is not to perform an
10 inspection and make findings in terms of compliance or
11 non-compliance nor to find fault in terms of the people
12 who may have been responsible for this.

13 I will also mention that a representative from
14 the Commonwealth of Massachusetts has been an observer of
15 all activities of the team while we've been here.

16 I would like to express my appreciation to MIT
17 for th cooperation that they have extended to us. You
18 have made facilities and equipment available to us to do
19 our work. You have made space available so we can
20 interview employees.

21 MIT personnel have been very responsive. When
22 we've asked for interviews, people have shown up. And you
23 have accommodated our schedule to a very large degree.

24 I would also like to thank the individuals who
25 participated in those -- these interviews for their candor

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1 and cooperation with us during the process.

2 The people that we interviewed were people
3 that might have first-hand knowledge either about the
4 incident itself or about the Radiation Protection Program
5 here at MIT.

6 These individuals included the exposed
7 individual, workers in the Cancer Center, Radiation
8 Protection Office staff and managers, campus police who
9 responded to the incident, and members of the Radiation
10 Protection Committee. And we appreciate the cooperation
11 of all of those people.

12 The scope of the investigation includes an
13 incident chronology, which we are also asked to see if we
14 can find out the source of the P-32 to characterize the
15 contamination, to look at the analysis of actual and
16 potential dose consequences, the effectiveness of the
17 Radiation Protection Program, and event reporting and
18 Licensee response.

19 In addition, as we go on to the other phases
20 of this investigation, we will be looking at the NRC's
21 regulatory process and it's activities preceding the
22 event, and whether any of our rules, regulations, and
23 procedures may have contributed in any way to this
24 incident.

25 Although we are concluding the on-site phase

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1 of the investigation, we're still in the early stages of
2 our analysis and development of probable cause and
3 consequences. And I will not be discussing conclusions at
4 this exit interview.

5 However, I would like to share with you some
6 of the major features of our preliminary chronology of
7 events based on the records that you have provided to us
8 and the interviews that we have conducted.

9 We have noted that the exposed individual
10 worked with P-32 on August 14th, that he performed surveys
11 of himself, and reported no contamination.

12 That's important because later information
13 indicates that may have been the date that the uptake had
14 occurred.

15 The individual then next worked with P-32 on
16 August 19th. He performed a survey and he found that his
17 whole body was apparently contaminated.

18 He notified the campus police who took him to
19 the Medical Center where he was examined by a physician.

20 The Radiation Protection Office was informed
21 and responded and began surveys of the individual, the
22 laboratory, the floors, benches, halls, and no
23 contamination was found.

24 Urine analysis was begun for this individual,
25 and activity was detected that same night. Initial

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1 estimates by the Radiation Protection Office of activity
2 ingested were in the 100 to 2090 microcuries range.

3 In addition, the individual's apartment was
4 surveyed, and no additional contamination was found.

5 On Monday, August 21st, there were additional
6 lab surveys performed. And again, no contamination was
7 found.

8 Urine samples were requested from 24 workers
9 in the same laboratory that day. And the exposed
10 individual also brought in some clothing from home, which
11 was sorted by day, and small contamination was found on
12 clothing worn beginning August 14th through August 18th,
13 but not on clothing that was worn on Saturday the 12th or
14 Sunday the 13th.

15 The urine analysis for the other workers did
16 not reveal any other contamination of individuals as a
17 part of this incident.

18 On Tuesday, August 22nd, authorization to use
19 radioactive material in the involved laboratory was
20 suspended, and an inventory of P-32 was requested.

21 The results of that inventory were that 51.7
22 microliters of P-32 solution could not be accounted for;
23 37 microliters was missing from a vile that was received
24 on August 14th.

25 The unaccounted activity was estimated to be

1 approximately 500 microcuries.

2 At the same time, based on your whole body
3 counting and urinalysis to that point, the Radiation
4 Protection Office estimated the intake could be as high as
5 500 microcuries.

6 On Thursday, August the 31st, you permitted
7 the laboratory to begin use of radioactive material again.
8 However, the conditions of use have been changed so that
9 only three individuals were responsible for dispensing and
10 recordkeeping for the material.

11 On Tuesday, the 12th of September, the
12 Radiation Protection Committee met and discussed the
13 incident. After that meeting, the campus police were
14 asked to assist in the investigation.

15 On Thursday, the 12th of October, the Rad
16 Protection Office provided a dose assessment to the
17 exposed individual. And that dose estimate had numbers as
18 high as 579 microcuries.

19 On Monday the 16th, MIT notified the NRC of
20 the event.

21 There has been one change since we arrived
22 here in the scope of this investigation. Based on the
23 sequence of events as we had developed them by Friday,
24 October 20th, and based on the lack of contamination or
25 other evidence of an accidental spill of radioactive

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1 phosphorous 32, the team could not eliminate that a
2 potential cause of the incident was a deliberate
3 contamination of food or drink ingested by the individual.

4 On this basis, NRC management decided that the
5 NRC's Office of Investigations should pursue the matter of
6 potential wrongdoing; i.e., a deliberate contamination.

7 The incident investigation team's charter was
8 modified to remove a task relating to wrongdoing. And the
9 member of the IIT from the Office of Investigations was
10 removed from the team.

11 The Office of Investigations has initiated a
12 separate investigation, and I will not be reporting on
13 that.

14 The team's principal contacts at MIT were
15 informed of this change on Friday. The IIT's charter
16 still requires that the team evaluate MIT's program at the
17 Cancer Center for material counting and controlling access
18 to areas.

19 In addition, the team will evaluate the NRC's
20 regulatory controls concerning this type of event.

21 I will mention one observation of the team.
22 The team observed and were told in its interviews that
23 during off hours, certain areas in which radioactive
24 material is stored or used can be entered without a key
25 and without being challenged.

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1 We were also told that MIT's policy was to
2 require that such buildings be locked in off-hours, and
3 that radioactive material use areas are to be locked,
4 except when authorized individuals are in attendance.

5 The team's principal contacts at MIT were
6 informed of these observations on Monday, the -- this
7 Monday on the 23rd. And these contacts informed the team
8 on Tuesday of additional actions being taken to ensure
9 security of radioactive materials against unauthorized
10 removal.

11 The NRC's Region I Office will monitor and
12 review the adequacy of these corrective actions.

13 What happens next? The team will continue to
14 gather information through interviews with NRC staff and
15 review of documents. The team has contracted for
16 independent analysis of urine specimens that have been
17 held by MIT for the team, and also MIT's whole body
18 counting data will be reviewed.

19 This will be reviewed by two national
20 laboratories that we have under contract to us.

21 We will also, as a team, analyze the
22 information that we have collected to determine probable
23 cause and to develop conclusions. Within 40 to 45 days of
24 our returning to our office, we will publish the results
25 of this evaluation and we'll brief the Commission on our

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1 findings.

2 In addition, recommendations for actions by
3 the NRC staff will likely result from this analysis.

4 Finally, I would like to indicate how certain
5 items that you agreed to a ⁴ which were confirmed in a
6 letter signed by Thomas T. Martin may be closed.

7 First with respect to the issues of security
8 of material, Region I will monitor your actions that you
9 have taken. And you will be contacting them and they will
10 be contacting you with respect to those matters.

11 With respect to the urine samples that you are
12 holding, you may dispose of the remaining material once
13 the NRC's contractor has, you know, tested the samples and
14 dispensed, labelled and shipped the samples to the testing
15 laboratory.

16 So once that is done, you no longer need to
17 hold that material.

18 Records which you have provided copies to us
19 will no longer need to be protected. However, if you
20 identify records which do bear upon the investigation and
21 which neither you identified and reported to us nor did we
22 identify as records that we were interested in, as you
23 come across those records, we would appreciate it if you
24 would notify and provide copies to us.

25 We have requested many records during the last

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1 week, plus most of them have been supplied. My
2 understanding is that before we leave, we will have all
3 those records.

4 If we fail to, in fact, get all the records we
5 have requested, again we hope that you will expeditiously
6 provide those records to us.

7 But I think it's down to one or two this
8 morning that we had not gotten as yet.

9 That concludes my remarks. If you have a
10 statement or questions at this time, I would be pleased to
11 listen.

12 MR. LITSTER: Thank you, Mr. Glenn. I have
13 very little to add to what you have said, but I do believe
14 that it's in all of our interests to understand as fully
15 as we can what happened and to take whatever steps are
16 necessary to make it unlikely that such an event can
17 recur.

18 And as you know, we have already begun to
19 reexamine our procedures and policies and see if there are
20 ways in which they could be improved.

21 And we look forward to hearing the conclusions
22 of your report.

23 MR. GLENN: Okay, thank you very much. And
24 Mr. Masse?

25 MR. MASSE: Yes, I'd like to just suggest one

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1 clarification, John, in what you reported. I think you
2 implied, and correct me if I'm wrong, that the campus
3 police were not notified until the notification by the
4 Radiation Protection Committee.

5 Indeed, they had been notified within the
6 first few days. And the Radiation Protection Committee
7 reinforced the recommendation to the campus police that
8 this be thoroughly investigated.

9 MR. GLENN: Okay, I appreciate that
10 clarification. It was not my intent to imply that there
11 might not have been an additional notification, but to
12 take note that the committee did, in fact, recommend, yes.

13 Okay, at this point, I will close the exit
14 interview. And I am now open to questions from members of
15 the public and the audience.

16 If you do have a question, I would request
17 that you come up to the microphone, identify yourself and
18 your affiliation when you ask the question.

19 MR. DALY: Mr. Glenn, I'm Chris Daly from the
20 Washington Post. And we have so many questions, I don't
21 really know where to begin. But is it possible to say any
22 more about what happened on August 14th?

23 MR. GLENN: Not at this time. Again, this is
24 at the very early stage of this incident investigation
25 team's analysis. We are not prepared to make conclusions

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1 about -- I think I outlined the major facts that have been
2 gathered up to this point.

3 But in terms of conclusions, we are not
4 prepared to state any conclusions at this time.

5 MR. DALY: Well, do you know where this
6 exposed individual and his colleagues in that lab stored
7 their food and their lunch boxes and that sort of thing?

8 MR. GLENN: Well yes, we have looked at that.
9 And there were clean areas for food to be stored and food
10 to be eaten. And we have looked at the issue of whether
11 those areas were violated and whether there were sometimes
12 people eating in the laboratory.

13 But I'm not prepared to give a conclusion at
14 this time.

15 MR. DALY: Aha, okay. And do you have any --
16 is there anything you can say further about the "why" of
17 this? I gather that you haven't ruled anything in or out.
18 But is that true? Have you been able to exclude any
19 possibilities?

20 MR. GLENN: Well, we cannot exclude. But I
21 think if you listen to the facts, as I related to them,
22 the things we would expect to see in an accidental spill -
23 -

24 MR. DALY: Yes.

25 MR. GLENN: -- we did not see. We did not see

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1 laboratory contamination. We did not see contamination in
2 the home. We did not see contamination in other
3 individuals.

4 MR. DALY: Yes.

5 MR. GLENN: So some of the things we would
6 expect to see in an accidental spill were not there.

7 MR. DALY: I see. So if there were a splash,
8 let's say -- I'm coming at this as a layman, but was this
9 in a liquid form?

10 MR. GLENN: Yes, the material is normally kept
11 -- it is a liquid form. It is normally kept frozen. But
12 when it is thawed out, it is a liquid and it can be
13 dispensed as a liquid.

14 MR. DALY: I see. So if there had been an
15 accident, you would expect some stuff to be around the
16 area?

17 MR. GLENN: Around, right. That's essentially
18 the --

19 MR. DALY: And is there any reason to think
20 that this was self-inflicted poisoning?

21 MR. GLENN: That's why our Office of
22 Investigations is looking at this to find out what the
23 cause is. We have not come to any conclusions about the
24 cause.

25 MR. DALY: Okay. Have you, in your experience

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1 or in your agency's records, ever come across a similar
2 episode?

3 MR. GLENN: I'm sure you're aware that, and I
4 mentioned it in my opening remarks, that there was a
5 similar incident at NIH earlier this summer.

6 In looking back through our records, there
7 have been rare occasions when other ingestions have
8 occurred. I do not remember the precise date now, but
9 there was one at Brown University in Rhode Island in the
10 early 80's.

11 MR. DALY: Oh, so they're that rare that they
12 are one or two a decade?

13 MR. GLENN: Of this type that I'm aware of,
14 yes.

15 MR. DALY: And what were the similarities
16 between this episode and the incident at the NIH this
17 summer? I'm not familiar with that earlier one.

18 MR. GLENN: The similarities that I'm aware of
19 are that they both involve P-32. They both involved
20 ingestion. The magnitude of the dose is comparable in
21 both cases.

22 There are some differences. I guess that --
23 my understanding is that at NIH, that there was some
24 contamination found of some equipment in a water cooler in
25 the laboratory.

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1 MR. DALY: Okay.

2 MR. GLENN: We found nothing like that here.

3 MR. DALY: And I guess this is an obvious
4 question, but are there any overlap of personnel in these
5 two incidents?

6 MR. GLENN: Is that in terms of the NRC or --

7 MR. DALY: No, no, no. I mean, the people who
8 worked in those two labs.

9 MR. GLENN: Not that I'm aware of.

10 MR. DALY: Okay, but can you rule it out? I
11 mean, do you know positively that --

12 MR. GLENN: No.

13 MR. DALY: -- no one worked in both
14 situations?

15 MR. GLENN: No.

16 MR. DALY: Okay. And do you know -- can you
17 tell us anything about the exposed individual's labmates
18 and colleagues, and who are they? What do they work on?
19 What sort of enterprise was involved?

20 MR. GLENN: Okay, the laboratory where they
21 work is a laboratory that is involved in molecular biology
22 or neural biology.

23 And the P-32 is used to label the sequences of
24 DNA basically. I'm not an expert in terms of the types of
25 research that they do. But it is that kind of research in

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1 molecular biology, working with DNA and genetic traits and
2 that sort of thing.

3 MR. DALY: I see. And was the exposed
4 individual an experienced researcher?

5 MR. GLENN: Yes.

6 MR. DALY: Someone who would know how to
7 handle this material?

8 MR. GLENN: Yes.

9 MR. DALY: Okay. And did he suffer any
10 medical consequences?

11 MR. GLENN: The individual did report
12 symptoms. I will note that at the dose levels that we're
13 talking about, 579 microcuries, which in terms of dose to
14 an individual would translate into approximately 4.8, 4.9
15 REM of effective dose equivalent.

16 That's the amount of dose that a worker is
17 permitted to receive within one year. We would not expect
18 to see significant medical -- or we wouldn't expect to see
19 medical consequences at that level of exposure. But --

20 MR. DALY: But even when an annual dose is
21 concentrated into a period of --

22 MR. GLENN: At the 5 REM level, we would not
23 expect to see what are called "deterministic effects,"
24 where you would actually be able to observe physical
25 symptoms.

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1 MR. DALY: Oh, okay. I thought I heard
2 somewhere that the fellow reported vomiting and aches and
3 pains and some symptoms.

4 MR. GLENN: Again, I think I have said that he
5 did report some symptoms.

6 MR. DALY: And can you characterize -- can you
7 specify those?

8 MR. GLENN: I think that may get into an area
9 of privacy of the individual, so I guess I'd prefer not
10 to. I think you have seen an article where I guess the
11 individual has been quoted. And I guess I would refer you
12 to that.

13 MR. DALY: Okay. But were there anything
14 about his symptoms that you found suggestive or indicative
15 --

16 MR. GLENN: At this point, we have not made
17 any conclusions about that. I will mention that we do
18 have a medical consultant to the incident investigation
19 team, Dr. Daniel Flynn, and he will be advising us on
20 that.

21 MR. DALY: Okay. I guess my final question is
22 to try to ask in plain English, what happened here?

23 MR. GLENN: I think I've told you what we
24 know. In fact, the individual did obviously ingest
25 approximately, you know, 600 microcuries of P-32.

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1 It was detected, apparently detected, within a
2 week of the exposure; that there is no radiological
3 evidence that any other person was exposed as a result of
4 the incident.

5 MR. DALY: Yes.

6 MR. GLENN: And I think at this point, that's
7 all I can really conclude about the incident.

8 MR. DALY: Fair enough. Thank you.

9 MR. GLENN: Thank you.

10 MS. GOREN: Hi. I'm Jennifer Goren from WBUR
11 Radio. I have a couple of questions. First of all, in
12 regard to the symptoms, did the researcher report the
13 symptoms, report having symptoms before he found out that
14 he had been contaminated?

15 MR. GLENN: Not that I'm aware.

16 MS. GOREN: Okay. And in the case of the
17 researcher who was contaminated at NIH, did this
18 researcher have the same type of symptoms? You said it
19 was a similar case.

20 MR. GLENN: I really don't have that
21 information.

22 MS. GOREN: Okay. And is that -- do you have
23 any information on whether that researcher is continuing
24 to have any effects, whether there have been any long-term
25 effects, although it's only been a couple of months?

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1 MR. GLENN: Again, this gets sort of into the
2 confidential -- you know, the medical confidentiality of
3 the individual. So I would prefer not to comment on that.

4 MS. GOREN: Okay, I'm not asking specifically
5 which effects, but whether there are effects, which is a
6 little bit less personal.

7 MR. GLENN: I think I'm still going to stick
8 with the same answer; that if I try to describe the
9 symptoms of the person, that that might be violating their
10 confidentiality.

11 MS. GOREN: Okay. How common is it for the
12 NRC to take up an investigation like this? Is this an
13 unusual request to be called in?

14 MR. GLENN: This kind of activation is
15 relatively rare, not more than once or so a year, on the
16 average. And for this kind of event, I think this is the
17 first time that we've had an incident investigation team
18 for this kind of incident.

19 MS. GOREN: What is it about this particular
20 event that drew the NRC in?

21 MR. GLENN: As I mentioned in the beginning,
22 1) ingestion of radioactive material are extremely rare.
23 This was the second one within a relatively short period
24 of time.

25 It was felt that we needed to take a broader

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1 look. One thing that's different about an incident
2 investigation team and a normal inspection team, or even a
3 augmented inspection team, is that the incident
4 investigation team is to take a look not only at the
5 incident and the institution at which the incident
6 occurred, but also to take a look at the NRC's regulatory
7 framework and to see whether it's adequate.

8 MS. GOREN: How would the NRC's regulatory
9 framework be changed in this instance? I mean, what would
10 be a scenario where you might change the way you regulate?

11 MR. GLENN: Areas that we would look at would
12 be the material accounting and control. Is that adequate,
13 either in terms of individuals being able to have access
14 to material and accidentally cause things to happen?

15 Or in case there are deliberate acts, are our
16 regulations adequate to deter that kind of activity?

17 MS. GOREN: You may have already mentioned it,
18 but I didn't catch it though. Has the researcher returned
19 to work?

20 MR. GLENN: My understanding is that he is not
21 working in the laboratory at this point.

22 MS. GOREN: Does he have -- are there plans
23 for him to return, or is this pending the investigation?

24 MR. GLENN: I can't -- I really don't know the
5 answer to that question.

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1 MS. GOREN: Do either of you know the answer
2 to that?

3 MR. MASSE: Not at this time.

4 MR. LITSTER: No, I don't know his plans.

5 MS. GOREN: Thank you.

6 MR. GLENN: Thank you.

7 MR. GALANEK: Hi, John. Mitch Galanek from
8 the MIT Radiation Protection Office. And I would just
9 like to clarify that you keep mentioning that there were
10 two P-32 ingestions.

11 So for those not familiar with it, the first
12 one was at NIH that you're referring to, correct?

13 MR. GLENN: That's correct.

14 MR. GALANEK: Thank you, just to clear up some
15 confusion.

16 MR. GLENN: I thought I was making that clear.
17 But yes, the first incident was at NIH. MIT's was the
18 second that had been reported to us. And so there were
19 two of them.

20 MR. GALANEK: In fact, the NIH one wasn't just
21 a singular person.

22 MR. GLENN: Yes, and that one involved
23 contamination of a water cooler --

24 MR. GALANEK: Thank you.

25 MS. GOREN: -- as well as one individual.

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1 MR. MASSE: Quick question here, John, if I
2 may. Is it true that there was not an IIT type of
3 investigation at NIH, and why? Could you tell us why?

4 MR. GLENN: I'll tell you what was rather than
5 the why.

6 MR. MASSE: Okay.1

7 MR. GLENN: But there was not an IIT at NIH.
8 There was an enhanced effort there. It is what we call an
9 augmented inspection team.

10 It is an enhanced look at the program, but
11 their charter is more focused on the incident and the
12 institution than the charter of the IIT, which is broader.

13 MR. MASSE: If the roles were reversed, would
14 you have done an IIT on a second round at NIH, do you
15 think, or --

16 MR. GLENN: I guess I'd have to say that
17 that's speculation, but that perhaps might be true.

18 MR. MASSE: Okay.

19 MR. GLENN: Okay, if there aren't any other
20 questions, thank you very much for your attention and your
21 cooperation.

22 (Whereupon, the interview was completed at
23 10:35 a.m.)

24

25

C E R T I F I C A T E

This is to certify that the attached
proceedings before the United States Nuclear
Regulatory Commission in the matter of:

Name of Proceeding: IIT EXIT INTERVIEW RE: MIT

Docket Number: (NOT ASSIGNED)

Place of Proceeding: BOSTON, MASSACHUSETTS

were held as herein appears, and that this is the original
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