OPTIONAL FORM NO. 10

#### UNITED STATES GOVERNMENT

# $\it Aemorandum$

TO

FROM

SUBJECT:

L. R. Rogers, Assistant Director for

Nuclear Materials Safety

DATE:

1961 MAR 6

Division of Compliance

SYLVANIA-CORNING NUCLEAR CORPORATION, HICKSVILLE, LONG ISLAND, NEW YORK; LICENSE NO. C-3700 - TYPE B INCIDENT

CO:RGC

40-682

Attached hereto is a memorandum dated January 17, 1961, from the NY Compliance Division, together with a report of an investigation and Exhibits A through E conducted on December 22, 1960, in connection with subject incident.

Based on the information set forth in the attachments this office concurs with the findings of NY and suggests that the licensee be cited for the item of noncompliance noted during the investigation.

No further action will be taken on this matter.

#### Attachment:

Copy trans memo fm R. W. Kirkman to D. Warner dtd 1/17/61 w/inv rpt dtd 12/22/60 w/Exhibits A thru E

JAN 17 1961

Donald E. Warner, Act. Asst. Dir. for Materials, Division of Compliance, HQ

Robert W. Kirkman, Director Compliance Division, NYOO

TRANSMITTAL OF TYPE "B" INVESTIGATION REPORT - SYLVANIA-CORNING NUCLEAR CORPORATION

CMP:EE

Transmitted herewith is the investigation report of a type "B" incident at:

SYLVANIA-CORNING NUCLEAR CORPORATION Cantiague Road Hicksville, Long Island, N.Y.

License No. C-3700

No items of noncompliance contributed to the incident.

The following item of noncompliance was noted during the investigation:

20.202 "Personnel monitoring"

(a) (1) - in that David Neuman, a machinist, was not supplied with personnel monitoring equipment when he entered and worked for thirteen days between 9/31/60 and 10/23/60 in the PRDC Control Area, a restricted area, where he was likely to receive a radiation exposure in excess of 100 mrem during seven consecutive days. (See Items 3 and 5 of report details.) The item of noncompliance was discussed with Mr. Boyd Metz, Plant Manager, who in the inspector's presence instructed the Safety Engineer, Henry Grieb, to make certain that all persons entering the PRDC Control Area are provided with film badges. Mr. Metz expressed his willingness to comply with the regulations.

It is out opinion that the excessive exposures noted on the film badges were to the badges and not to the individual, David Neuman, because of the following:

- (1) Other workmen performing similar fuel rod straightening operations immediately along-side Neuman during the same time period received exposures no greater than 155 mrem/week.
- (2) Film badges supplied by HASL and exposed for 4-1/6 hours to the same number of fuel rods placed in the same location as described by Neuman, showed no exposure when developed by HASL.
- (3) Direct radiation surveys were performed by the inspector under the worst conditions of operation as described by Neuman. The maximum radiation measured under these conditions was 10 mr/hr beta at 15" from the table, which was the position occupied by Neuman's chest when performing fuel rod straightening.
- (4) Although Neuman and his immediate supervisor Martin both stated that Neuman wore his badge on his coverall, the excessive film badge exposures may be explained if Neuman had placed the film badges on the fuel rods inside the tote box.

Natural uranium has a surface dose rate of 239 mrem/hr beta according to AECD-2753. If Neuman had placed his film badges on densely packed uranium, the film badges would have indicated an exposure of 20.3 rads beta. However, the fuel rods inside the tote box are not densely packed and placing film badges inside could produce exposures compatible to that which appeared on Neuman's badges, 11.4 rads beta.

No further action is contemplated by this office with regard to this incident. We recommend that a letter be sent to the licensee advising him of the item of noncompliance and requiring corrective action to the satisfaction of the Commission.

Enclosure: 4 cys of Rpt.

U.S. ATOPHC ENERGY COMP.

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RECEIVED DIVISION OF COMPLIANCE

#### COMPANY CONFIDENTIAL

Licensee: SYLVANIA-CORNING NUCLEAR CORP.

Hicksville, New York

Date of Investigation:

December 22, 1960

License No.: C-3700

Type of Investigation:

Type "B" Incident

Expiration Date: April 30, 1962

Applicable 10 CFR Part 20

#### FINDINGS

During the period 10/24/60 to 11/14/60 two successive biweekly film badges worn by David Neuman, a Sylcor machinist, temporarily assigned to a control restricted area to straighten depleted 95% uranium-molybdenum fuel rods showed exposures of 5.7 rad beta.

Several other employees working alongside Neuman, and performing identical fuel rod straightening operations, did not receive exposures in excess of 155 mrem/week beta.

Independent radiation measurements made by the inspector of Neuman's operations under the worst possible conditions revealed a radiation level of 10 mr/hr beta. This radiation level during Neuman's total time that he performed fuel rod straightening would have resulted in a maximum radiation exposure of 850 mrems beta.

Film badges supplied by HASL when exposed for 4-1/6 hours in the same position that Neuman occupied during actual operations showed no exposures.

It is concluded that the exposure occurred to the badges and not to the individual.

No items of noncompliance contributed to the incident.

The following item of noncompliance was noted during the investigation:

20.202 "Personnel monitoring"

(a) (1) - in that David Neuman, a machinist, was not supplied with personnel monitoring equipment when he entered and worked for thirteen days between 9/31/60 and 10/23/60 in the PRDC Control Area, a restricted area, where he was likely to receive a radiation exposure in excess of 100 mrem during seven consecutive days. (See items 3 and 5 of report details.)

Inspector

Approved by: Robert W. Kirkman

January 12, 1961
Date Report Prepared

Distribution:

4 cys - Div of Cmp, HQ

2 cys - NYOO

SYLVANIA-CORNING NUCLEAR CORPORATION Hicksville, Long Island, New York

Date of Investigation: December 20, 1960

#### Persons Accompanying Inspector:

Mr. John Mieli, Senior Radio-Physicist, Division of Industrial Hygiene, Department of Labor, New York State

### Persons Contacted:

Dr. Benjamin Schloss, Ph.D., President, Nucleonic Corporation of America

Mr. William Herman, Physicist, Nucleonic Corporation of America Mr. Henry E. Grieb, Safety Engineer, Sylvania-Corning Nuclear

Corporation
Mr. Charles Bienholz, Foreman, PRDC, Control Area

Mr. David Neuman, Machinist

Mr. George Martin, Leadman, PRDC, Control Area

Dr. William N. Young, Medical Director

Mr. Boyd Metz, Production Manager

#### DETAILS

#### 1. Notifications

On December 8, 1960, a telephone call was received by Mr. J. Roeder of this office from Henry Grieb, Safety Engeneer, Sylcor., advising that they had received a film badge report from Nucleonic Corporation of America, 196 Degraw Street, Brooklyn, New York, that David Neuman, a machinist, had received an exposure of 250 mrem gamma and 5.77 rad beta during a period of from 11/7/60 to 11/19/60. Grieb also stated that he received the film badge report on 12/8/60, which showed that Neuman had received 400 mrem x-ray exposure. Grieb stated that he immediately telephoned Nucleonic Corporation and spoke to Mr. George Herman, a Physicist, stating that Neuman could not be exposed to x-ray at Sylcor. Herman immediately read the badge and corrected the reading from 400 mrem x-ray exposure to 5.77 rad beta exposure. See Exhibit "A" showing the original and corrected film badge readings.

On 12/8/60 a confirming telegram was received at this office which stated that investigation details would follow. (See Exhibit "B"). On 1/9/61 a detailed report of the incident from H. Grieb, Safety Engineer, dated 1/3/61 was received at this office and is included as Exhibit "E".

#### 2. <u>License Status</u>

License C-3700 is current with an expiration date of April 30, 1962 and extends to both Sylcor plants at Hicksville, New York and at Bayside, New York. The license permits the use of source material for research and development on fuel element manufacture and reprocessing. An initial inspection was conducted on 10/28/58 by R. S. Cleveland of this office but only operations at Bayside, New York were inspected. A reinspection was conducted on 2/17/60 by Mr. P. Klevin of this office and operations at Hicksville were reviewed and items of noncompliance were noted: 20.401(c) failure to maintain records of washings released to the sanitary sewerage system and of effluents to the air in the proper units; and 20.203(f)(1) failure to label containers. It was noted during this inspection that during the week of 11/2/59 D. Crowther had received an exposure of 950 mrep beta while inspecting depleted uranium pins. This exposure occurred to only the head, chest and arms, and did not constitute an overexposure.

#### INVESTIGATION DETAILS

#### 3. Henry E. Grieb, Safety Engineer and RSO

Grieb stated that until today he had believed that David Neuman, a machinist, had worked in the Power Research Development Corporation (PRDC) Control Area for a period of three weeks from 10/24/60 to 11/14/60. However, in the inspector's presence it was learned from Neuman's time card records that Neuman had been in the control area on 9/31/60 for 7.7 hours, on 9/14/60 for 6 hours, on 9/16/60 for 2.7 hours, on 9/29/60 for 7.7 hours stripping depleted uraniummolybdenum fuel rods with alcohol, on 7/30/60 for 7.7 hours stripping fuel rods, on 10/7/60 for 5.7 hours tooling, on 10/10/60 for 7.7 hours bagging fuel rods into polyethylene bags, on 10/11/60 for 1.5 hours bagging, on 10/17/60 for one hour bagging, on 10/18/60 for one hour bagging, on 10/23/60 5.7 hours bagging, on 10/20/60 for 7.7 hours cutting off fuel rods into 12" lengths, on 10/21/60 for 7.7 hours cutting off. On all the above dates Grieb stated that Neuman was not issued a film badge. All the above operations were carried on in the PRDC Control Area, a restricted area. The Control Area is a caged-off restricted room which is entered through a dressing room. Posted printed restrictions stated that rubbers, gloves, protective clothing, protective eye glasses, and film badges must be worn. Grieb stated that the average

weekly exposure for personnel in the control area is about 100 mrem beta. Within the control area room, 40' x 60', is located an annealing furnace, swaging machines, centerless grinders, cut off wheel lathes and a degreaser.

Grieb stated that Neuman was issued a Nucleonic Corporation film badge on 10/24/60, covering the two week period of 10/24/60 to 11/6/60 and then issued a new badge covering the two week period of 11/7/60 to 11/19/60. Grieb stated that Neuman has not worked in the control area since 11/14/60. During the period of 10/24/60 to 11/14/60 time records show that Neuman worked a total of 85 hours in straightening depleted fuel rods 12" long and 3/8" diameter. Grieb stated that the fuel rods were 95% uranium metal alloyed with 5% molybdenium with trace amounts of U=234, U-235 and U-233.

Grieb stated that he received the film badge exposure report for the period 10/24/60 to 11/6/60 on 11/11/60 and noted that D. Neuman had received a 160 mrem x-ray exposure, but did not pay any attention to this reading until December 8, 1960 when he received the film badge report for the period of 11/7/60 to 11/19/60 showing a 400 mrem x-ray exposure for Neuman. On December 8, 1960, Grieb stated that he called Dr. B. Schloss, President of Mucleonic Corporation of America and told him and Joan Cara, in charge of film badge records for Nucleonic, that Neuman could not possibly be exposed to x-ray during this period. Herman reread the badge for the period of 11/7/60 to 11/19/60 revising Neuman's exposure to 5.7 rad beta, but neglected to reread the film badge for the period of 10/24/60 to 11/6/60, which also showed an x-ray exposure. Grieb stated that he spoke to Herman about the previous film badge on 12/9/60 when Herman delivered the revised film record to Grieb. Grieb stated that Herman told him that he would reread the film badge of 10/24/60 to 11/6/60. This film badge was not reread until the inspector, in looking over D. Neuman's film badge exposures for the period 10/24/60 to 11/6/60, noted a film badge exposure of 160 mrem x-ray. Grieb in the inspector's presence telephoned Dr. Schloss of Nucleonic, who reread the film badge for the period of 10/24/60. to 11/6/60 and stated to both Grieb and the inspector via 5.7 rad beta to Neuman for the period of 10/24/60 to 11/6/60. This exposure had not been reported to the Commission and Grieb stated that he should have been alert to note Neuman's previous exposures when he received Nucleonic's report on 11/11/60. On 12/23/60 a letter was received from Mucleonic Corporation of America dated 12/22/60 which explains the method of film interpretation and the correct exposures for Meuman. The developed film badges were also enclosed. The letter is included as Exhibit "D".

Grieb stated that he reviewed Neuman's operation insstraightening fuel rods and believes that this was a badge exposure and not an overexposure to an individual. Grieb stated his opinion is based upon the following:

- Neuman was seated at a table straightening 12" long 3/8" diameter rods between two V groove chucks and a press. Only one fuel rod could be straightened at a time and Neuman's production was approximately 250 rods during a 7.7 hour day. Neuman had on his left a tote box approximately 8" wide 8" high and 18" long with a cover, and Neuman would remove one rod from the tote box on the left, straighten the rod, and place it in an empty tote box on his right. Neuman's position at the table was such that the film badge attached to the coverall was 18" from the straightening jig, and Grieb stated that when he monitored the operation, he could not get a radiation level greater than 2 mr beta/hr at the film badge. Furthermore, only Neuman's chest, arms and head were exposed as he was sitting all the time.
- (b) A Production Hand, Joseph Latona, also did straightening occasionally and sat alongside Neuman during this period. Latona's time records and exposure records show that Latona worked alongside Neuman assisting him in straightening fuel rods during the period of 11/7/60 to 11/14/60. Records of Latona's working time during the aforementioned period indicated that Latona worked a total of 7.5 hours per day for the 5 day period. Latona's film badge for the period 11/7/60 to 11/19/60 shows only an exposure of 155 mrem beta.

Grieb stated that he believed that Neuman had put his film badge into the tote box which had approximately 200 rods in it at all times and which has a surface radiation level of 240 mrem per hour beta. Grieb stated that Neuman is a top machinist, who complained to his union delegate when put into the control area to perform straightening operations which normally were performed by lower paid employees. Grieb stated that Neuman was placed in the control area because of lack of work in the machine tool operations.

Grieb stated that Neuman has been removed from all work within any controlled or restricted area effective 12/8/60.

#### 4. George Martin, Leadman in Control Area

George Martin stated that he was Neuman's immediate supervisor in the control area during the straightening operation. Martin stated that although they were supposed to keep the tote boxes covered and remove only one fuel rod at a time, the cover of the tote box was continuously off because the design of the tote box was impractical and it was difficult to insert a gloved hand through the end slot and remove one rod. Therefore, the cover of the tote box was left off and Neuman would have 20 or 30 rods lying on the table in front of him. Martin stated that he observed Neuman and that Neuman had his film badge attached to the outside label of his coverall.

#### 5. David Neuman, Machinist

Neuman stated that he had worked in the control area on many occasions prior to 10/24/60 when he was first issued a film badge. He stated that he would be called in to work on machinery and occasionally for a day or two help out with the stripping and bagging operations. Neuman stated that at the end of October he was put in the control area steady to straighten fuel rods. Neuman stated that Lionel Schulman worked alongside him two days (total work time 15 hours) performing the same operations. Nicholas Manzo worked one day and Joseph Latona worked one week alongside him. The personnel monitoring records for the two day period Schulman worked alongside Neuman show 20 mrem beta on the film badge of 10/24/60 to 11/6/60. Nicholas Manzo shows 80 mrem beta exposure for this period, but he was doing other work within the control area, as well, whereas Lionel Schulman only worked two days in the control area alongside Neuman.

Neuman stated that he never had the film badge off the coverall he was wearing and at the end of each day turned in his film badge to the security guard at the gate and picked up his film badge each morning. This was verified by examination of the security guard records which show that Neuman's film badge was never missing and was turned in each night and reissued each morning.

Neuman showed the inspector the exact position he occupied during the fuel rod straightening operations and two film badges supplied by HASL were placed at the exact location where Neuman indicated he was sitting. A cardboard carton was placed on a chair and the film badges were pinned to the box 16" away from the straightening jig. An open tote box containing 20 fuel rods and 20 scattered fuel rods were placed on the table. The badges were exposed 4 hours and 10 minutes and developed by HASL, who reported no badge exposure.

#### 5. <u>Dr. William Young, Medical Director</u>

Dr. Young stated that on 12/8/60, he had Neuman submit a urine sample which he sent to Controls for Radiation, Cambridge, Massachusetts for bioassay for uranium. The bioassay for Neuman showed a concentration of uranium in urine of 4.6 micrograms per liter. A repeat urine taken 12/28/60 was analyzed by HASL and showed a urine concentration of 2.0 ug/1 uranium. Dr. Young also took blood samples on 12/8/60 and made a differential count and stated that no blood abnormalities were noted.

#### 6. Personnel Monitoring

Neuman did not have any film badge or personnel monitoring device prior to 10/24/60, and did not work in the control area after 11/14/60, therefore, his thirteen week reported exposure consisted of two successive reported 5.7 rads beta for a total of 11.4 rads beta.

#### 7. Direct Radiation Surveys

A direct radiation survey was performed by the inspector accompanied by Grieb in the PRDC Control Area, in the vicinity where Neuman had worked, using a #1680 Juno survey meter, calibrated 11/23/60. The following are radiation measurements:

- (a) With Neuman occupying a seat and performing a simulated rod straightening operation with the number of fuel rods and location pointed out by Neuman as typical of his operation. An open tote box containing 200 fuel rods (1/2 filled) was on a table immediately to the left of Neuman and 20 fuel rods were strewn on the table in front of Neuman. The radiation reading was taken at Neuman's chest which was 15" from the surface of the table and found to be 10 mr/hr beta.
- (b) At the surface of the tote box containing 200 fuel rods 6" from the surface of the fuel rods 34 mr/hr beta.
  No reading could be obtained at the surface of the fuel rods because the dimensions of the tote box were too small to allow the insertion of a survey instrument.
- (c) At the surface of the fuel rod straightening jig with one fuel rod in the jig - 2 mr/hr beta.

#### 8. Film Badge Evaluation

The two Nucleonic film badges which Neuman wore between 10/24/60 and 11/14/60 were submitted to HASL for evaluation. HASL stated that the films showed no evidence of heat damages, and that both film badges appear to have been uniformly exposed to 5.7 rads beta radiation. The film badge is described as a #544 Dupont double emulsion in a plastic packet. Both Nucleonic and HASL made their evaluations from the insensitive films because the sensitive films were too blackened for evaluation.

#### 9. <u>Corrective Action</u>

The following item noted during the investigation was discussed with Mr. Boyd Metz, Plant Manager:

20.202 "Personnel monitoring"

(a) (1) - in that Neuman was not issued a film badge prior to 10/24/60 when he had in fact worked in the control area on thirteen different days between 9/31/60 and 11/23/60.

Mr. Metz stated that immediate steps will be taken to have badges issued to all persons who enter the control area.

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"DEC-8" 1960

ATTN R W KIRKMAN COMPLIANCE DIV

ACTION: Mr. Kirkman

TT #91

CONTIRMATION OF TELE CALL FROM H E GRAFE TO J ROEDER

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In repard to the exposures received by Mr. Newman

#### O.W. Densities

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ne sometive film of the 544 packet lindicates a all raises that density is of annoximately 3.0 making the two fan interpretation from this film questionable. One teleapposure report has been interpreted from the lastestive film (C.W.\*):

A density of .160 C.W. reading on the insensitive tragainst a Retainable converindicates an execution force indicates an execution of 5.7 Radio This reading is the corrected reading tracks are the same.

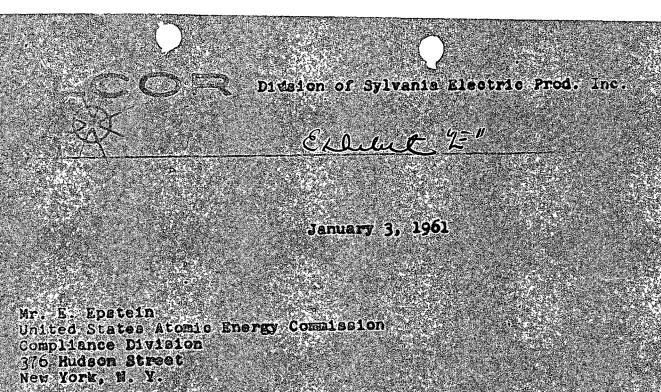
nolosed you will find Mr. Newman's film, as requested

Respectfully yours,

NUCLEONIC CORF. OF AMERICA

° W. C. Herman⊢

Wetheld



Dear Mr. Eqstein:

Attached is a copy of the report that was made on the film badge exposure of D. Neuman.

Please advise me if there is any further information required.

very truly yours,

Henry E. Grieb Chief Safety Engineer

HEG: dw Att.

### COTTANT CONTINUENCLAS

HILN BARDS ELPOSORE - D. MEUNAN

Dicember 28, 1960 (blet. 12/22/60)

G. LaPier

Enfoty Department

cci C. B. Mets R. Haffnor

On December 8th, I reserved a film badge report from Exclosing Corporation of America for the monitoring pariod of November 7th to November 19th, which indicated that badge 7218 used by Dave Reuman was exposed to 400 erem 1-ray. I contacted MEA, and spoke to this J. Cara, and saked her to re-evaluate the film for beta exposure, breaked I did not think that Reuman and caposed to any x-ray. She said that one would evaluate it and call me back. In the meantime, I contacted you, C. Bernhels and B. B. Retz. As a result of a quick investigation of Housen's time during the above monitoring pariod, it was continued that Nouman definitely had no x-ray exposure, but that he was working part of the time in the Control Area.

Merman of MCA, called me in the middle of the aftertion on December 5th, to tell me that the x-ray exposure
on Neuman's badge was a misinterprotation by KCA. The
current interprotation, according to V. Herman, was
250 mran geome and 5.77 and beta. I asked him to confire the reinterprotation in writing introductly, as
it was necessary for our records. He said that he
could do it. He also indicated that he was going to
be at our Hickoville site the next day, Friday, December
5th, and that he would stop by to use me.

After my telephone discussion with W. Herman, I contected you and D. B. Pets, to inform you of the see badge interpretation and that it was necessary to inform the AEC. I then contacted by telephone, R. Mr. J. Reeder of the AEC to inform them of the exposure. This was confirmed by

TWI from me to Mr. R. W. Mindson in the Compliance Division of the AEC in New York.

Late in the afternoon on December 8th, I reviewed Newman's prior film badge records. I found that the badge worn by Neuman Curing the mentioring period beginning October 24th and ending Hovembor oth, indicated en x-ray expeaure of 160 area. I then attempted to contact Mr. Herman of NCA for a reinterpretation of this bodge. Mr. Berman had left for the day, so I spous to Mes J. cars of NCA. I told her about the 160 mrom 2-ray expesure. I indicated that this also must be a minimterpression, and that the exposure was bute. I asked her to have this beam re-evaluated and any change in roading confirmed to me in writing immedlately. She said that she would sention it to W. Herman so scon as she could contact him. On Friday, December 9th, thon W. Merwan stopped by my affice, I showed him the Bacond film bedge report that indicated D. Keuman bad en x-ray exposure. I again indicated that it was necessary for me to obtain in writing a corrected film badge report for the Bonitoring period of Bovember 7th through November 19th, on D. Neumen. I also indicated that the prior film badge report with the 160 men x-ray could not have been an x-ray exposure, but may have toen a beta exposure. I said that I had contacted J. Cars chout this second file badgo because he was not in. He indicated that he would review the second film, and confirm any change in interpretation in writing.

On Tucsday, December SQLM, a Mr. Expetch of the Compliance Division of the Ros Yest Office of the AEC, and Mr. J. Micle of the Division of Industrial Engione, Department of Labor of the Division of Industrial Engione, Department to Investigate for the State of New York, visited the plant to investigate the badge exposure for Founan. During the investigation the following Items were noted:

We had received a corrected copy of Heamen's badge report from NGA for the meditering period of Hovember Tth through Rovember 19th. I pointed not that we still had no word from NGA on the cat that we still had no word from NGA on the life mrem x-ray exposure for the monitoring period beginning Cotober 24th through November (th. I called Mr. E. Schloss, President of NGA, and told nim obsut the 160 mrem x-ray exposure, and that I had calso talked to J. Carc and W. Herman of his organization, in attempts to have a re-evaluation of this film for beth exposure. I indicated that we wanted an immediate review of this film.

Fr. Epotein of the AME; then maked to speak to be sented in immediately. Her. Epstein indicated that he also wanted Schloss to re-evaluate this film he also wanted Schloss to re-evaluate this film immediately. About 15 or 20 minutes after the

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- 2. 6. Hairin and ferrold from technology attornia on branches 8th, an ocean as little linein was all lighter sand day of otherwards.
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This of course does not mean that Nouman was wearing a badge of all times when he was in the area.

- Herman indicated that he were rubber aboo covers. laboratory coat and rubber gloves when he bandled the PADC material. He also were glasses.
- To get a 5.77 red bots rousing, the film badge would have to be in direct contact with uranium m. for a period of 24 hours, or for an 80 hour work period (the badge sonitoring pariod of two work wasks) the badge would have to be exposed. to an evorogo reading of 72 area per hour.
- 19. Nouman indicated that he wore his film badge on the laboratory cost when he worked in the Control Area. He indicated that he had left his film edy mi the leb cost when he hung it up in the change room to the Control Arec. He did this then he wont to lunch or out on coffee breaks.

Everyone I have thing to about tale exposure is of the opinion that the budge form by Heman was probably exposed to these high levels of rediction, but housen easie not have been exposed to these levels. I am of the strong opinion that both of Newsbord bedges were deliberately expends. These people when I have discussed this eltustion with have indicated that they also telleve that this is true. The badges could not have accidentally been lost long enough in any eron to be exposed to these extremely nigh rodistics levels. It would be rether stronge to have accidentally exposed both badges to identical quen-Villes of bate radiotion. D. Newson is a Machinist, and he son being used on extressly simple production operations. he had indicated his discortafaction with this arrangement.

As a result of all of the above, the following recommendations. ero-decol

The Supervisor of the Control Area, as well ac other Supervisors in Commercial, must again be instructed that they are not to acoign anyone to work on the selting open tions or on the PADC operations in the Control Area, unless the ingividual had a film badge. This applies even to a one day assignment. This has been called to the attention of Supervisors on make out

occupions in the past.

- 2. All Supervisors of persons who wear film badges must patch these persons very closely to be contain that their film badge is worn properly at all times. Any instance of misume of the film badge must be reported immediately to me.
- 3. I believe that it is unwise to assign a higher exilled person to temporary senial duty on production operations. We are in the unfortunate position of talog at the serry of an individual who is dissettified with the job, and he can deliverately expose the file bedge, which will result in his being removed from this unmanted job. Meat people some to realize that if a file bedge reading is high they will be seneved from that perticular job that the exposure. They don't realize the treasure assumt of work and trouble that it creates. Persons if this was pointed out to them, these people that might be inclined to pull this stant would be discouraged. I am not saying that Ecumen took this action.
- -604, our file bedge supplier, has been giving us protty accurate hate exposure data. This is besed upon test budges that we send in an occanion. I hallove, the only reason that they are really good on beta exposure to that we, ever a period of several years, have forced them into this position. A semiost make by B. Schleso of ECA. to the ADD was that they had no idea of whit type of expansive to expect from hyleon. That is, whether they were bots, game or any other reclation. This is not true. We have, on econsions, filled out the NLA formy lodicating the types of exposure to our people. We have aleo discussed this or numerous occasions with J. Cera and other personnal in ECA. In fact, Schlose has visited our feeilities at Michaville on mucrous occasions to discuss the film badges and their use. Many of the KUA reports are not examile to despectly. That is, they do not enter the monitoring period for the badges on the force, nar do they fill in correctly the evetices requiring the date the beings were recoived by them, the cate of development by them, the date that the report was sailed to Sylon, or the name of the parton that compiled the report or propered 18. In eddition to this, we have been experiencing a lot of difficulties in receiving file becase in

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FILM BADGE EXPOSURE - D. Neuman (continued)

time for the required monitoring period. For example, the NCA people said that they had mailed us badges on December 13th or 14th, to be used on December 19th. On the afternoon of Friday, December 16th, D. White contacted NCA to inform them that we had not received the badges to be used on the 19th. NCA people indicated that they could not understand this, because they mailed them on the 13th and 14th, but that they would look into the matter. On December 17th, at 3:30 PM a Special Delivery package containing the badges was delivered to the Guardhouse. The postmark stamped by the Brooklyn Post Office, where the package was mailed, indicated that they were mailed on the afternoon of Friday, the 16th. I contacted J. Cara of NCA about this, and she indicated that as far as she knew, the badges were sent on the 13th or 14th, and didn't know anything about the badges being mailed on the 16th as Special Delivery.

The above difficulties that we have been experiencing with NCA, have been discussed with NCA representatives and they have indicated that they will take immediate action to prevent any recurrences.

HEG:dw

Henry E. Grieb