

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

JAN 17 1961

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 [REDACTED] a machinist, was EX 6
not supplied with personnel monitoring
equipment when he entered and worked for
thirteen days between 9/31/60 and 10/23/60
in the FRDC 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.)

Information in this record was deleted
in accordance with the Freedom of Information
Act, exemptions 6
FOIA-2002-0324

G-1

JAN 17 1961

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, [REDACTED] because of the following:

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

D. E. Warner

- 3 -

JAN 17 1961

Natural uranium has a surface dose rate of 239
mrem/hr beta according to AECD-2753. If [REDACTED] EX 6
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 [REDACTED] badges, 11.4 rads beta. EX 6

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.