

In reply refer to:  
RO:RPB  
50-220

JUL 16 1973

Niagara Mohawk Power Corporation  
ATTN: Mr. P. Allister Burt  
General Superintendent-Nuclear Generation  
P. O. Box 32  
Lycoming, New York 13093

Gentlemen:

This will acknowledge receipt of your letter dated June 21, 1973, reporting the exposure of an individual to radioactive material during the Second Quarter 1973. This matter will be examined during a future inspection.

Very truly yours,

Original signed by  
H.D. Thornburg

John G. Davis, Deputy Director  
for Field Operations  
Directorate of Regulatory Operations

bcc: w/cpy ltr dtd 6/21/73  
D. J. Skovholt  
J. G. Keppler  
J. P. O'Reilly  
H. D. Thornburg  
C. F. Eason  
PDR  
Local PDR  
NIS  
DTIE  
DR Reading Files  
DR Central Files  
Incident Files  
RO Files

OFFICE	RO:RPB	RO	RO			
SURNAME	W Brockett:ef	GW Roy	John G Davis			
DATE	7/11/73		7-15-73			

JUL 1 1973

NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK

Nine Mile Point Nuclear Station  
Post Office Box 32  
Lycoming, New York 13093

June 21, 1973

Director, Division of Compliance  
United States Atomic Energy Commission  
Washington, D. C. 20545

Dear Sir:

Re: Provisional Operating License: DPR-17  
Docket No.: 50-220

This report along with an attachment is sent to you in compliance with 10 CFR 20.405 (Reports of overexposures and excessive levels and concentrations).

The individual named in the attachment received an exposure of 3350 mrem to the whole body during the second calendar quarter, 1973 (i.e. April 8, 1973 to June 30, 1973). The individual's film and self reading dosimeter records show the following results:

<u>Period of Exposure</u>	<u>Whole Body Exposures mrem</u> <u>Self-reading</u> <u>Dosimeter</u>	<u>Film</u> <u>Badge</u>
4/08/73 to 4/21/73	200	260
4/22/73 to 5/05/73	690	890
5/06/73 to 5/19/73	940	1900
5/20/73 to 6/02/73	340	300
	<u>2170</u>	<u>3350</u>

We received a telegram from our film badge service on May 25, 1973 informing us that the individual in question received 1900 mrem for the period May 6, 1973 to May 19, 1973; this exposure value put him over the 3 Rem/qtr. limit. We immediately prohibited this man from entering any restricted areas so that he would receive no more exposure for this calendar quarter. Between the time the badge was sent in and the time we received the telegram, however, he received an additional 300 mrem.

As can be seen from the above table of dosimeter readings versus film badge readings, there is a large discrepancy between the two readings for the period May 6, 1973 to May 19, 1973 (i.e. 1900 mrem vs. 940 mrem). The individual's self reading dosimeter was calibrated and at two different dose rates (400 mr/hr. and 25 mr/hr.). The dosimeter showed a + 15% accuracy.



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June 21, 1973

An interview with the individual failed to adequately explain why there should be such a large discrepancy. The two week period in question (5/6/73 to 5/19/73) involved only four (4) days of work in a Radiation Area or Hi Radiation Areas (drywell maintenance work during shutdown) and a review of the radiation work permits for these four days indicate that the 940 mrem as read by the dosimeter would not be an unreasonable exposure. It should be pointed out, however, if we assume the individual in question received the maximum dose that any man on each R.W.P. received he could have received 2050 mrem for the two week period. This leads one to believe that the individual allowed his dosimeter to go off scale and might have been reporting inaccurate exposure results based on dose rate estimates.

In order to prevent a recurrence, we plan to re-instruct all individuals at the Station to keep a constant watch on their dosimeters so that no off scale readings are encountered; we plan to purchase a TLD dosimeter system with in-house capability. TLD dosimeters will be issued to men involved in the higher dose rate jobs (such as drywell work during a shutdown) this should help to eliminate "off scale" occurrences, provide more accurate dosimetry and allow immediate on-site read out to ensure that no limits are exceeded.

Very truly yours,



P. Allister Burt  
General Superintendent  
Nuclear Generation

PAB:cm

Enclosure

cc: Region I, Division of Compliance



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JUNE 21, 1973

Provisional Operating License: DPR-17  
Docket No.: 50-220

ATTACHMENT TO 10 CFR 20.405 REPORT

Name of Individual Exposed:	Thomas A. Masuicca
Social Security Number:	.076-16-3733
Date of Birth:	March 31, 1919
Exposure - Lifetime to Date:	12.58 Rem
Exposure - Year 1973:to date:	4.09 Rem
Exposure - Second Quarter 1973:	3.35 Rem



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