Central File

May 16, 1977
IP-77-050

Mr. Ernst Volgenau, Director
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
Washington, D. C. 20555

SUBJECT: Posting of Notice of Access to Nuclear Regulatory Commission for Personnel at Nuclear Facilities

Reference: Docket No. 50-286

Dear Mr. Volgenau:

Please be advised that copies of the "Notice To Employees" attached to your April 4, 1977 letter have been posted at the Indian Point 3 Nuclear Power Plant. Posting of the notice will continue following transfer of operating responsibility from the Consolidated Edison Company of New York, Inc. to the Power Authority of the State of New York.

Very truly yours,

M. W. Hultgren
Manager, Nuclear Operations

MWH/ew

cc: G. T. Berry
J. W. Boston
J. P. Bayne - IP3

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PDR ADOCK 05000286
P PDR

William J. Cahill, Jr.

Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N.Y. 10003
Telephone (212) 460-3819

50-3/247/286 May 6, 1977

RECEIVED
MAY 16 1977
U.S. NUCLEAR REGULATORY COMMISSION
Mail Section

Director of Nuclear Reactor Regulation
ATTN: Mr. Robert W. Reid, Chief
Operating Reactors Branch No. 4
Division of Operating Reactors
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

File Cy

Regulatory

Dear Mr. Reid:

Forwarded herewith for your information is a copy of the Seventh Quarterly Report for the Seismic Monitoring Program for Indian Point covering the months of December 1976 through February 1977. No naturally occurring seismic events were recorded during this quarter within the monitoring network.

Very truly yours,

William J. Cahill, Jr.
Vice President

copy to: Mr. George T. Berry
General Manager and Chief Engineer
The Power Authority of the State
of New York
10 Columbus Circle
New York, N.Y. 10019

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SEVENTH QUARTERLY REPORT

CON EDISON SEISMIC MONITORING NETWORK

(December 1976 through February 1977)

The seventh quarterly report of the Con Edison Seismic Monitoring Network (CESMN) provides a complete listing of all seismic events recorded by the CESMN during the period December 1, 1976 through February 28, 1977. No naturally occurring seismic events were recorded within the network during this period.

In January, 1977 the consulting firm of Woodward Clyde assumed the responsibility for operation and evaluation of the data from the network, the role previously played Dr. Marc Sbar.

Shortly after the end of this quarter, on March 10, a small naturally occurring seismic event occurred near Sloatsburg, New York. Even though this event occurred outside the network and not during the present reporting period, it is being reported at this time along with other regional events because of the interest in regional seismicity. The following preliminary data has been determined for the hyocenter:

Origin Time	
(CUT)	16 hr 22 min
Local Time	11 hr 22 min
North Latitude	41o12.12'
West Longtitude	74o09.87'
Depth	8.75 km
Magnitude	2.3 (Nuttli)

This epicentral location was obtained using 0.20 second clock correction for Indian Point network stations. Clock corrections were required to make arrival times compatible with the data obtained from Lamont Doherty (LD) and University of Connecticut (U.Conn) seismic stations.

The complete listing of seismic events that were detected and identified during this quarter is presented in the following tables:

Table I	Naturally Occurring Seismic Events
Table II	Probable Naturally Occuring Seismic Events
Table IIIA	Clinton Point Quarry Blasts
Table IIIB	Haverstraw Quarry Blasts
Table IIIC	Plaza Materials Quarry Blasts
Table IIID	West Nyack Quarry Blasts

TABLE 1
NATURALLY OCCURRING SEISMIC EVENTS

Within The Network

NONE

Regional Events

Date	Time (CUT)	Location	Magnitude*
05 Dec 1976	16:32	Schooleys Mountain, NJ	1.8
07 Dec 1976	04:55	Schooleys Mountain, NJ	1.7
21 Jan 1977	20:51	Lakehurst, NJ	2.7

Teleseisms

01 Dec 1976	14:22
07 Dec 1976	05:09
07 Dec 1976	13:17
15 Dec 1976	23:19
20 Dec 1976	10:25
20 Dec 1976	20:40
01 Jan 1977	17:55
02 Jan 1977	10:15
06 Jan 1977	16:12
23 Jan 1977	17:06
04 Feb 1977	07:56
05 Feb 1977	15:47
19 Feb 1977	22:45
27 Feb 1977	08:49

*Magnitude = 3.75 + 0.90 (Log $\Delta°$) + Log A/T; after Nuttli, O.W. 1973, Seismic Wave Attenuation and Magnitude Relating for Eastern North America, Jour of Geophy Res, 78, No. 5, p 876-884

TABLE II

PROBABLE NATURALLY OCCURRING SEISMIC EVENTS

NONE

TABLE III A

CLINTON POINT QUARRY BLASTS
N 41° 37.5' W 73° 57.0'

Date	Time (CUT)
02 Dec 1976	18:17
06 Dec 1976	19:35
08 Dec 1976	19:27
10 Dec 1976	19:13
13 Dec 1976	19:00
15 Dec 1976	19:28
16 Dec 1976	19:33
20 Dec 1976	16:40
20 Dec 1976	19:28
06 Jan 1977	19:30
16 Feb 1977	17:48
23 Feb 1977	14:29

TABLE III B

HAVERSTRAW QUARRY BLASTS
N 41°10.6' W 73°57.2'

Date	Time (CUT)
02 Dec 1976	17:18
06 Dec 1976	17:10
10 Dec 1976	17:10
15 Dec 1976	17:09
16 Dec 1976	17:08
23 Dec 1976	17:09
30 Dec 1976	19:52

No blasting was done in January or February

TABLE III C

PLAZA MATERIALS QUARRY BLASTS
N 41° 07.0' W 74° 08.8

Date	Time (CUT)
10 Dec 1976	13:58
15 Dec 1976	16:27
16 Dec 1976	19:27

No blasting was done in January or February

TABLE III D

WEST NYACK QUARRY BLASTS
N 41°06.3' W 73° 57.5'

Date	Time (CUT)
02 Dec 1976	17:19
03 Dec 1976	17:15

No blasting was done in January or February

TABLE III E

HAZELTON, PENNSYLVANIA

Date	Time (CUT)
07 Jan 1977	18:37

TABLE III F

MT. HOPE QUARRY BLASTS
N 40° 56.3' W 74° 32.3'

Date	Time (CUT)
15 Dec 1976	19:53
27 Dec 1976	20:41

TABLE III G

ATLANTIC CEMENT COMPANY QUARRY BLASTS
N 42° 29.5' W 73° 50.0'

Date	Time (CUT)
03 Dec 1976	18:15
21 Dec 1976	18:32
29 Dec 1976	18:59
29 Dec 1976	19:15
06 Jan 1977	19:55
12 Jan 1977	19:16
26 Jan 1977	18:27
26 Jan 1977	18:29
31 Jan 1977	19:54
04 Feb 1977	18:47
11 Feb 1977	19:20
28 Feb 1977	19:27

TABLE III H

CON EDISON BLASTS IN LONG ISLAND SOUND

Date	Time (CUT)	
02 Dec 1976	20:27	Pea Island
10 Dec 1976	17:37	Pea Island
13 Dec 1976	18:31	Pea Island
13 Jan 1977	21:30	Davids Island
21 Jan 1977	21:33	Davids Island
11 Feb 1977	22:01	Davids Island
15 Feb 1977	14:12	Davids Island
16 Feb 1977	14:45	Davids Island
16 Feb 1977	17:22	Davids Island
17 Feb 1977	15:57	Davids Island
17 Feb 1977	19:17	Davids Island
18 Feb 1977	14:19	Davids Island
22 Feb 1977	15:30	Davids Island
23 Feb 1977	21:40	Davids Island
25 Feb 1977	18:38	Davids Island

TABLE III I

BLASTS FROM UNIDENTIFIED DISTANT SOURCES

Date	Time (CUT)
02 Dec 1976	17:04
03 Dec 1976	19:58
15 Dec 1976	20:31
20 Dec 1976	17:02
28 Dec 1976	18:31

TABLE IV

PROBABLE QUARRY OR OTHER MAN-MADE BLASTS

Date	Time (CUT)
16 Dec 1976	17:04
11 Feb 1977	14:23

William J. Cahill, Jr.
Vice President

Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N Y 10003
Telephone (212) 460-3819

May 2, 1977

Re: Indian Point Unit Nos. 1,2 & 3
Docket Nos. 50-3,50-247 & 50-286

REGULATORY DOCKET FILE COPY

Mr. James P. O'Reilly, Director
Office of Inspection and Enforcement
Region 1
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

Dear Mr. O'Reilly:

This letter is being sent to you for information purposes and under the format of a 30-day report as specified in Section 5.6.2.1.b of Appendix B (Environmental Technical Specifications Requirements) to the Facility Operating Licenses for Indian Point Units 1, 2 and 3.

A sampling station for air particulates and radioiodine listed in our Environmental Radiological Monitoring Program for Indian Point Station, located at the Standard Brands plant and designated as Point #2 in Table 4.2-2 of the above Technical Specifications, was discontinued as an air sampling station as of April 6, 1977. The reason for removal of the station from our monitoring network is the shutdown and relocation of the Standard Brands plant. In addition, the thermoluminescent dosimeters (TLD) located at the Standard Brands plant were removed for the same reason. In preparation for their move, Standard Brands disconnected most of their electric service on April 6 with the remainder of the plant being disconnected within two or three weeks.

We are now evaluating various sites in the same area for feasibility of relocating the "Standard Brands" sampling

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station and TLD. We will inform you when we determine the new location.

Very truly yours,

William J. Cahill, Jr.
Vice President

copies to: Mr. Ben C. Rusche, Director
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Director of Nuclear Reactor Regulation
ATTN: Dr. Ernst Volgenau, Director (20 copies)
Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Director of Nuclear Reactor Regulation
ATTN: Mr. William G. McDonald, Director (2 copies)
Office of Management Information and
Program Control
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. George T. Berry
General Manager and Chief Engineer
Power Authority of the State of New York
10 Columbus Circle
New York, N.Y. 10019

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Distribution
Docket
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NRC PDR
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Attorney, OELD
OI&E (3)
DEisenhut
TBAbernathy
JRBuchanan
ACRS (16)

Docket No.: 50-286

April 29, 1977

Licensees, Operating Nuclear Power Plants

Gentlemen:

RE: INTRUSION DETECTION SYSTEMS HANDBOOK

As discussed at the recent regional meetings related to 10 CFR 73, Section 73.55, "Requirements for physical protection of licensed activities in nuclear power reactors against industry sabotage," we have enclosed a copy of the Intrusion Detection Systems Handbook, SAND 76-0554, dated November 1976. This handbook was prepared by the Facilities Protection Department, Sandia Laboratories, Albuquerque, New Mexico, under contract with the Division of Safeguards and Security, U. S. Energy Research and Development Administration and is made available for your information as a reference source for use in the design, installation, and operation of intrusion detection systems.

This document is marked by ERDA as Official Use Only; however, it does not require any special handling on your part. Revisions to the handbook will be sent directly to all recipients by ERDA. Any comments on the handbook that you wish to make should be addressed to Dr. Samuel C. T. McDowell, Assistant Director for Research and Development, Division of Safeguards and Security, ERDA.

Sincerely,

Original signed by
Karl R. Goller, Assistant Director
for Operating Reactors
Division of Operating Reactors

Enclosures:
Handbook

cc w/o enclosure:
See next page

OFFICE ➤	ORB #3	AD:DOR KRG				
SURNAME ➤	GLear:mjf	KRGoller				
DATE ➤	4/ /77	4/29/77				

Consolidated Edison Company
of New York, Inc.

Docket No.: 50-286

cc w/o enclosure:

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William J. Cahill, Jr.
Vice President

Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N Y 10003
Telephone (212) 460-3819

RECEIVED 5/5/77 U.S. NUCLEAR REGULATORY COMMISSION Mail Section

April 29, 1977
Re: Indian Point Unit Nos. 2 & 3
Docket Nos. 50-247 and 50-286

Director of Nuclear Reactor
Regulation
ATTN: Mr. Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

REGULATORY DOCKET FILE COPY

Dear Sir:

Con Edison's proposed Overpressure Protection Systems for Indian Point Unit Nos. 2 and 3 were submitted to the Commission by letters dated February 28, 1977. Attachment 1 to this letter supplies additional information that was requested by your staff to aid in the evaluation of these proposed systems.

Should you or your staff have any further questions, we would be happy to discuss them with you at your convenience.

Very truly yours,

William J. Cahill, Jr.
Vice President

WJC:nvg

Copy to: Mr. George T. Berry
General Manager and Chief Engineer
Power Authority of the State of New York
10 Columbus Circle
New York, N.Y. 10019

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ATTACHMENT I

Indian Point Unit Nos. 2 and 3
Reactor Vessel Beltline Fluence

		APPROXIMATE FAST NEUTRON FLUENCE (1 MeV) AT 32 EFFECTIVE FULL POWER YEARS	
		IP 2 Fluence (1) (n/cm^2)	IP 3 Fluence (2) (n/cm^2)
(1)	Reactor Vessel Interior Surface	1.57×10^{19}	1.8×10^{19} (3)
(2)	1/4 Vessel Thickness (1/4 T)	8.80×10^{18}	1.0×10^{19} (3)
(3)	3/4 Vessel Thickness (3/4 T)	2.01×10^{18}	2.3×10^{18} (3)
(4)	Surveillance Capsule	4.56×10^{19}	5.2×10^{19}

(1) The values for the Indian Point Unit No. 2 (IP 2) fluences are calculated based on preliminary experimental results from the measurements on the first surveillance capsule.

(2) Indian Point Unit No. 3 (IP 3) values for these fluences are based on design values given in the IP 3 Final Safety Analysis Report (FSAR).

(3) These fluences are given on Page 4.2-13 and Table 4.2-10 of the IP 3 FSAR.

William J. Cahill, Jr.
Vice President

Consolidated Edison Company of New York, Inc.
4 Irving Place, New York, N Y 10003
Telephone (212) 460-3819

April 13, 1977

Re: Indian Point Unit Nos. 2&3
Docket Nos. 50-247 and 50-286

Director of Nuclear Reactor
Regulation
ATTN: Mr. Robert W. Reid, Chief
Operating Reactors Branch #4
Division of Operating Reactors
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

APR 1 1977
U.S. NUCLEAR REGULATORY COMMISSION

Dear Sir:

REGULATORY DOCKET FILE COPY

Con Edison's proposed Overpressure Protection Systems for Indian Point Unit Nos. 2 and 3 were submitted to the Commission by letters dated February 28, 1977.

To aid in the evaluations of these proposed systems, your staff has requested information concerning the integrated fast neutron flux at the interior wall of the reactor vessel beltine region. As of March 31, 1977, the integrated neutron flux in this region with energies greater than 1 MEV was approximately 8.51×10^{17} neutrons per square centimeter for Indian Point Unit No. 2 and 3.19×10^{17} neutrons per square centimeter for Indian Point Unit No. 3.

Should you or your staff have any further questions, we would be happy to discuss them with you at your convenience.

Very truly yours,

William J. Cahill, Jr.
Vice President

Copy to: Mr. George T. Berry
General Manager and Chief Engineer
Power Authority of the State of New York
10 Columbus Circle
New York, N. Y. 10019

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