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

November 15, 1978

Director of Nuclear Reactor Regulation
ATTN: Mr. Albert Schwencer, Chief
Operating Reactors Branch No. 1
Division of Operating Reactors
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Schwencer:

Forwarded herewith for your information is a copy of the Thirteenth Quarterly Report for the Seismic Monitoring Program for Indian Point covering the months of June 1978 through August 1978.

Very truly yours,

William J. Cahill, Jr.
Vice President

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

Two Pennsylvania Plaza
New York, New York 10001
212-[illegible] 6762
Telex [illegible] 541

Woodward-Clyde Consultants, Inc.

14 November 1978
76C073

QUARTERLY REPORT

ON THE

SEISMIC MONITORING NETWORK

IN THE VICINITY OF

INDIAN POINT, NEW YORK

CONSOLIDATED EDISON PROJECT

WCC/7

June 1978 through August 1978

[illegible] Engineers Geologists
[illegible] Environmental Scientists

INTRODUCTION

During the quarter June through August 1978, nine hundred and eighty-seven seismic events were detected by routine analysis of data recorded by the Indian Point Seismic Monitoring Network (IPSMN). This relatively large number of events is likely the result of increased quarry and road construction blasting activity during the summer months.

Three events have been identified as naturally occurring seismic events within or near the perimeter of the IPSMN. Two of these events are main shocks; the third event is an aftershock. One event occurred at the general location of the Annsville event of September 1978 which is within the network. The second event and an aftershock occurred near Oakland, New Jersey approximately 20 km outside the perimeter of the network. Location of events was based on data obtained from seismic stations of IPSMN, Lamont-Doherty Geological Observatory (LDGO) and University of Connecticut (UConn).

DATA ANALYSIS

There were no changes in routine analysis procedures during this quarter.

The present computer program (a modified version of HYPOELLIPSE) was used to locate all three events using both IPSMN data, and data from other stations. For final epicentral locations, data from IPSMN stations, LDGO stations and UConn stations were utilized.

On 30 June 1978 at 04:13 EDT (20:13 UTC) a magnitude 2.9 event occurred near Oakland, New Jersey along the perimeter of the IPSMN. This event was followed by an aftershock at 06:39 EDT (22:39 UTC) of magnitude 2.2. Location coordinates of the two epicenters are presented in Table IA. Both events were well recorded by all IPSMN stations and some LDGO stations. Some LDGO stations and all UConn stations recorded the events less distinctly.

Felt report data associated with the mainshock included an area within about ten miles of the epicenter. People reported both shaking and sounds. The aftershock was also accompanied by felt reports. Preliminary determination of the Modified Mercalli Intensity of the mainshock is that of intensity MM IV. This determination was based on data collected by LDGO.

On 23 June 1978 at 07:02 EDT (23:02 UTC) a magnitude 2.1 event occurred near Peekskill, New York within the network. Location coordinates of this event are presented in Table IA. The epicentral location of this event is near the location of the Annsville, New York event of 2 September 1977.

No felt reports of this event were obtained. Therefore, no Modified Mercalli Intensity could be determined.

Epicentral location accuracy for these events is generally good (better than 2 km within the horizontal plane). Due to gaps in station distribution with respect to epicentral locations, however, and poor first motion data recorded by most stations of IPSMN, LDGO, and UConn, we have been unable to compute reliable focal mechanism solutions for any of these three events.

Other distant events, both regional and teleseisms, were recorded by the IPSMN. These events are summarized in Table IB and IC. These events are too distant to be located by the network; locational and other data for these events were obtained primarily from LDGO.

A total of eight events occurred in a region within six degrees of the IPSMN; see Table IB. Four events occurred in the vicinity of Bermuda. These include events of 4 June 1978 at 09:08 UTC, 11 August 1978 at 08:09 UTC, 17 August 1978 at 09:49 UTC, and 30 August 1978 at 07:30 UTC. A magnitude 3.0 event occurred near Lancaster, Pennsylvania on 15 July 1978 at 06:40 UTC. Two events of undetermined magnitude occurred off the coast

of Long Island; one on 25 July 1978 at 04:17 UTC, and one on 10 August 1978 at 21:12 UTC. One event of magnitude 3.5 to 4 occurred near LaChute, Canada on 30 July 1978 at 10:55 UTC.

STATUS OF THE NETWORK

Network stations operated satisfactorily during this quarter. Due to a local power outage, the central recording station equipment in the Woodward-Clyde Consultants Clifton office was offline from approximately 18:11 UTC on 26 August 1978 to 14:56 UTC on 27 August 1978. A review of LDGO data for this time period indicated that no events of particular significance to the IPSMN had occurred.

Electrical storms caused only minimal station outages during Summer 1978. It appears that this is the result of circuitry changes made and the addition of zener diodes (lightning arresters) at several of the field stations.

TABLE IA

NATURALLY OCCURRING SEISMIC EVENTS

Within the Network

Date	Time (UTC)	Location	Magnitude
23 July 1978	23:02	Near Peekskill, NY 41°N 18.50 73°W 55.15	2.1

Regional Events

(Within Two Degrees of the Network)

Date	Time (UTC)	Location	Magnitude
30 June 1978	20:13	Near Oakland, NJ 41°N 05.51 74°W 12.64	2.9
30 June 1978 (aftershock)	22:39	41°N 04.60 74°W 12.35	2.2

TABLE IB

DISTANT EVENTS RECORDED BY THE NETWORK

Date	Time (UTC)	Location	Magnitude
04 June 1978	09:08	Near Bermuda 30.61°N 68.29°W	
15 July 1978	06:40	Lancaster, PA 39.93°N 76.34°W	3
25 July 1978	04:17	Off Long Island 40.25°N 71.10°W	2.9
30 July 1978	10:55	Near LaChute Canada 45.65°N 74.39°W	3.5-4
10 August 1978	21:12	Off Long Island 40.37°N 70.93°W	
11 August 1978	08:09	Near Bermuda 30.61°N 68.29°W	
17 August 1978	09:49	Near Bermuda 30.61°N 68.29°W	
30 August 1978	07:30	Near Bermuda 30.61°N 68.29°W	

TABLE IC

TELESEISMS

Date	Time	Location
03 June 1978	18:27	South Indian Ocean
04 "	19:43	Uzbek, USSR
09 "	07:44	Peru-Brazil Border
10 "	17:56	Bali Sea
11 "	03:09	Nuclear Blast Kazakh, USSR
11 "	15:02	Vancouver Island, B.C.
12 "	08:27	Japan
14 "	12:51	Philippine Islands
15 "	08:25	South of Panama
15 "	09:41	Kuril Islands
15 "	13:49	Banda Sea
16 "	08:15	Philippine Islands
16 "	11:58	West Texas
17 "	08:59	Southern Pacific Ocean
17 "	15:30	Tonga Islands
18 "	02:26	Northern Columbia
20 "	20:14	Greece
21 "	11:22	Kuril Islands
22 "	08:43	Central Mid-Atlantic Ridge
24 "	09:51	Southern Sumatra
01 July 1978	09:00	Panama
02 "	02:55	Northern Columbia
03 "	04:24	Costa Rica
04 "	08:05	
05 "	02:59	Nuclear blast Kazakh, USSR
11 "	03:02	Queen Charlotte Islands Region
11 "	12:24	Peru-Brazil Border
20 "	09:40	Nicaraqua
23 "	15:01	Taiwan Region
24 "	08:10	Gulf of Mexico
25 "	21:59	
03 August 1978	06:20	
03 "	18:22	USSR - Mongolia Border
05 "	19:11	Northern Chile
10 "	08:10	Southern Sumatra
13 "	23:01	Nuclear explosion Novaya Zemlya
15 "	12:56	Southern California
18 "	15:41	Fiji Islands
23 "	00:45	Near coast of Guatemala
25 "	22:25	Costa Rica
26 "	03:57	Virgin Islands
26 "	08:00	
26 "	08:22	Puerto Rico
29 "	02:49	North Atlantic Ocean
31 "	14:06	Nuclear blast Kazakh, USSR
31 "	17:08	Southern Nevada NTS
		Virgin Islands

TABLE II

PROBABLE NATURALLY OCCURRING SEISMIC EVENTS

None

TABLE IIIA

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

Date	Time (UTC)
01 June 1978	19:44
05 "	19:55
06 "	19:35
09 "	16:35
09 "	19:53
12 "	19:47
14 "	20:03
15 "	19:36
16 "	19:46
19 "	19:57
20 "	16:56
22 "	18:15
23 "	19:38
26 "	16:21
27 "	17:54
29 "	19:54
30 "	19:49
03 July 1978	19:45
05 "	19:31
06 "	19:34
07 "	19:44
10 "	19:03
13 "	19:47
18 "	19:47
19 "	18:25
20 "	19:42
21 "	19:09
24 "	18:50
26 "	19:39
27 "	19:30
31 "	20:15
01 August 1978	19:36
02 "	19:46
04 "	19:44
07 "	19:38
09 "	19:32
10 "	19:49
11 "	17:55
14 "	19:47
16 "	19:13
18 "	19:50
23 "	19:49

TABLE IIIB

HAVERSTRAW QUARRY BLASTS

41°N 10.6' 73°W 57.2'

Date	Time (UTC)
01 June 1978	16:20
02 "	16:09
05 "	16:12
06 "	16:13
07 "	15:31
08 "	16:13
11 "	13:14
12 "	16:15
14 "	16:14
15 "	16:16
16 "	16:28
19 "	16:04
20 "	16:17
22 "	16:16
23 "	16:16
26 "	16:16
27 "	19:49
28 "	16:15
30 "	17:02
05 July 1978	16:14
12 "	16:21
17 "	16:17
18 "	16:16
20 "	16:13
25 "	16:13
26 "	16:15
27 "	16:16
28 "	16:18

Date	Time (UTC)
01 August 1978	16:09
02 "	16:17
03 "	16:10
04 "	16:18
08 "	16:43
10 "	16:14
11 "	16:15
17 "	20:14
22 "	16:14
24 "	18:26
29 "	12:17
30 "	16:16
31 "	18:09

TABLE IIIC

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

Date	Time (UTC)
01 June 1978	18:57
05 "	15:29
06 "	13:59
07 "	16:25
08 "	19:07
13 "	14:55
14 "	15:57
15 "	12:56
16 "	15:59
19 "	15:14
20 "	12:28
20 "	18:58
23 "	19:08
26 "	13:26
27 "	19:00
30 "	16:11
05 July 1978	15:00
06 "	13:28
10 "	12:56
10 "	16:41
12 "	16:11
10 August 1978	13:59
23 "	15:25

TABLE IIID

WEST NYACK QUARRY BLASTS
41°N 06.3' 73°W 57.4'

No Confirmed Blasts During This Quarter

TABLE IIIE

HAZELTON, PENNSYLVANIA BLASTS

Date	Time (UTC)
01 June 1978	16:39
03 "	16:24
07 "	18:30
08 "	17:53
09 "	16:47
10 "	14:19
12 "	19:12
13 "	17:12
15 "	16:46
19 "	16:46
20 "	14:32
20 "	15:25
21 "	15:12
22 "	17:06
22 "	17:09
24 "	17:34
24 "	17:35
26 "	19:16
28 "	16:11
30 "	19:25
01 July 1978	17:22
03 "	18:12
13 "	17:27
14 "	13:37
20 "	15:26
04 "	16:52
05 "	15:26
05 "	17:25
09 "	17:16
10 "	16:09
10 "	17:59
11 "	18:10
14 "	15:24
21 "	18:29
24 "	17:43
29 "	17:17

TABLE IIIF

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

No Confirmed Blasts During This Quarter

TABLE IIIG

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

Date	Time (UTC)
01 June 1978	18:00
07 "	16:50
12 "	18:16
19 "	16:25
26 "	17:15
28 "	16:53
07 July 1978	18:58
20 "	17:00
26 "	17:02
03 August 1978	15:00
09 "	18:44*
10 "	19:44*
18 "	15:59*
30 "	18:00

*Time discrepancy between recorded events and time of blasts reported by quarry

TABLE IVA

PROBABLE QUARRY OR OTHER MAN-MADE BLASTS WITH DISTINCT PHASES

Date	Time	S-P (seconds) at Nearest Station	
02 June 1978	14:35	19	OSB
02 "	17:36	22	STL
05 "	14:24	24	SRM
05 "	15:41	20	SRM
05 "	20:27	40	STL
06 "	17:18	24	STL
06 "	18:12	27	STL
07 "	21:09	26	BLM
08 "	13:55	22	BLM
08 "	14:13	26	STL
08 "	15:49	18.5	GSC
08 "	16:08	19	STL
09 "	15:30	5	STL
09 "	16:09	12	BLM
09 "	16:44	14	BLM
09 "	19:11	3	GSC
12 "	14:15	12	BLM
12 "	15:40	41	GSC
12 "	16:33	20	GSC
12 "	18:14	18	BLM
12 "	20:21	12	BLM
12 "	20:28	19	BLM
13 "	12:42	29	GSC
13 "	13:09	22	BLM
13 "	14:39	20	GSC
13 "	16:01	57	BLM
13 "	16:07	25	BLM
13 "	17:26	24	STL
13 "	17:30	21	BLM
14 "	13:57	11	GSC
14 "	14:28	7	STL
14 "	14:30	19	BLM
14 "	15:00	8	BLM
14 "	15:30	18	STL
14 "	16:50	13	BLM
14 "	17:08	22	STL
14 "	17:15	15	GSC
14 "	21:11	32	GSC
14 "	22:39	25	BLM
15 "	12:29	22	GSC
15 "	14:17	17	STL
15 "	14:30	12	BLM
15 "	15:27	11.5	BLM
15 "	15:28	23	GSC

TABLE IVA
(continued)

Date	Time (UTC)	S-P at Nearest Station		
15 June 1978	17:53	22	GSC	
15 "	17:54	27	STL	
15 "	20:08	22	GSC	
16 "	12:17	27	GSC	
16 "	15:01	13	BLM	
16 "	15:20	13	BLM	
16 "	15:37	23	STL	
16 "	16:00	13	BLM	
16 "	17:10	21	STL	
16 "	19:19	20	BLM	
17 "	12:47	24	STL	
17 "	14:06	23	STL	
19 "	15:10	22	WGL	
19 "	17:29	21	BLM	
19 "	19:43	37	STL	
19 "	20:34	28	BLM	
20 "	14:26	12	WGL	
20 "	15:00	21	STL	
20 "	15:31	24	STL	
20 "	15:49	9	BLM	
20 "	16:14	23	STL	
20 "	16:31	18	STL	
20 "	18:30	16	WGL	
20 "	19:18	46	STL	
20 "	19:20	11	WGL	
20 "	20:02	46	STL	
20 "	21:15	43	STL	
21 "	12:14	20	STL	
21 "	14:58	22	WGL	
21 "	15:36	11	WGL	
21 "	16:02	23	STL	
21 "	16:59	15	WGL	
21 "	17:33	26	STL	
21 "	18:02	16	BLM	
21 "	22:38	24	WGL	Blast from VT
22 "	15:50	12	WGL	
22 "	17:00	17	STL	
22 "	17:02	11	STL	
22 "	17:26	24	STL	
22 "	18:30	31	STL	
22 "	19:14	50	STL	
23 "	13:56	21	WGL	
23 "	14:00	6	BLM	
23 "	14:15	19	STL	
23 "	14:27	24	WGL	
23 "	15:35	15	WGL	
23 "	15:44	36	WGL	
23 "	15:55	15	WGL	
23 "	16:28	19	STL	

TABLE IVA
(continued)

Date	Time (UTC)	S-P at Nearest Station		
23 June 1978	16:46	18	BLM	
23 "	18:39	30	BLM	
23 "	19:23	17	BLM	
23 "	20:46	40	BLM	
24 "	00:30	43	STL	
24 "	13:13	25	STL	
24 "	15:28	10	WGL	
24 "	19:56	23	WGL	
26 "	10:34	22	WGL	
26 "	14:25	21	STL	
26 "	14:31	14	BLM	
26 "	15:49	29	STL	
26 "	15:56	20	BLM	
26 "	16:14	6	WGL	
26 "	16:45	13	BLM	
27 "	17:54	36	STL	
28 "	14:14	18	WGL	
28 "	14:43	24	WGL	
28 "	15:00	12	WGL	
28 "	15:48	10	WGL	
28 "	15:54	25	WGL	
28 "	16:40	11	WGL	
28 "	17:55	1	STL	Poss. Plaza
28 "	19:29	13	BLM	Materials
28 "	21:36	10	WGL	
29 "	14:37	10	WGL	
29 "	14:40	10	BLM	
29 "	16:00	13	WGL	
29 "	16:41	2	STL	Poss. Plaza
29 "	17:26			Materials
29 "	17:54	13	STL	
29 "	18:59	15	WGL	
30 "	13:45	19	STL	
30 "	14:30	12	WGL	
30 "	16:00	21	BLM	
30 "	16:05	25	WGL	
30 "	17:10	6	STL	
30 "	18:27	19	BLM	
30 "	20:00	14	STL	Poss. Riverdale
		17	BLM	
03 July 1978	14:59	18	WGL	
03 "	15:55	21	WGL	
05 "	15:25	12	WGL	
05 "	19:23	15	STL	
05 "	20:26	4	WGL	Poss. Clinton Pt.

TABLE IVA
(continued)

Date	Time (UTC)	S-P at Nearest Station		
06 July 1978	14:26	11	BLM	
06 "	16:08	12	WGL	
06 "	16:50	8	WGL	
06 "	16:58	20	WGL	
06 "	17:26	21	WGL	
06 "	17:33	19	CHR	
06 "	18:42	15	BLM	
06 "	19:16	24	WGL	Blast from VT
06 "	21:21	24	WGL	
07 "	14:34	12	WGL	
07 "	15:02	24	BLM	
07 "	15:41	13	CHR	Poss. Riverdale
07 "	15:46	12	BLM	
07 "	16:05	5	CHR	
07 "	16:45	11	WGL	
07 "	17:10	15	WGL	
07 "	17:30	15	WGL	
07 "	17:52	21	CHR	
10 "	14:45	17	BLM	
10 "	14:55	13	WGL	
10 "	15:00	18	WGL	
11 "	14:45	31	WGL	
11 "	15:30	18	WGL	
11 "	15:59	7	WGL	
11 "	16:12	23	WGL	
11 "	17:59	18	WGL	
12 "	14:01	7	WGL	
12 "	14:21	23	WGL	
12 "	14:33	18	WGL	
12 "	15:45	17	CHR	
12 "	16:01	22	WGL	
12 "	17:59	12	BLM	
12 "	18:30	10	WGL	
12 "	19:29	26	WGL	
12 "	23:16	13	CHR	
13 "	14:49	46	CHR	
13 "	15:00	19	CHR	
13 "	15:15	11	WGL	
13 "	15:44	6	BLM	
13 "	15:22	26	BLM	
13 "	16:05	26	WGL	
13 "	16:12	11	BLM	
14 "	14:15	10	WGL	
14 "	14:34	20	WGL	
14 "	15:08	12	WGL	

TABLE IVA

(continued)

Date	Time (UTC)	S-P at Nearest Station		
14 July 1978	15:49	25	CHR	
14 "	16:49	24	CHR	
14 "	17:41	18	WGL	
17 "	13:34	20	CHR	
17 "	15:46	23	OSB	
17 "	19:11	12	CHR	Poss. Riverdale
18 "	13:51	22	OSB	
18 "	16:02	23	BLM	
18 "	16:59	13	CHR	
18 "	17:00	16	OSB	
18 "	17:44	20	CHR	
18 "	19:13	26	CHR	
18 "	19:15	10	OSB	
18 "	20:30	11	OSB	
19 "	14:38	14	OSB	
19 "	15:57	7	OSB	
19 "	16:46	14	CHR	
20 "	15:45	11	BLM	
20 "	17:30	13	OSB	
20 "	17:54	23	CHR	
21 "	15:45	12	OSB	
21 "	16:02	19	OSB	
21 "	18:03	20	CHR	
22 "	17:19	18	CHR	
24 "	14:50	12.5	OSB	
24 "	21:17	25	BLM	
24 "	21:34	18	OSB	
25 "	13:03	12	OSB	
25 "	14:12	23	CHR	
25 "	15:33	20	BLM	
25 "	15:34	22	BLM	
25 "	15:40	14	OSB	
25 "	21:26	23	OSB	
26 "	15:56	23	BLM	
26 "	16:15	16	OSB	
27 "	13:42	17	BLM	
27 "	15:59	21	BLM	
27 "	16:45	11	OSB	
27 "	18:01	15	BLM	Poss. Riverdale
27 "	18:29	30	BLM	
28 "	14:06	30	BLM	
28 "	15:09	12	OSB	
28 "	15:12	23	GSC	
28 "	17:32	8	GSC	

TABLE IVA
(continued)

Date	Time (UTC)	S-P at Nearest Stations	
29 July 1978	16:09	25	GSC
31 "	13:51	12	OSB
31 "	15:21	12	OSB
31 "	16:00	8	OSB
31 "	18:20	27	STL
01 August 1978	14:30	26	STL
01 "	15:11	23	GSC
01 "	17:50	40	STL
01 "	18:38	19	GSC
02 "	15:05	24	STL
02 "	15:44	13	GSC
03 "	12:45	23	OSB
03 "	17:16	24	STL
04 "	13:04	20	OSB
04 "	15:13	21	GSC
05 "	19:07	24	STL
07 "	20:08	24	OSB
08 "	14:09	14	OSB
08 "	14:36	23	GSC
09 "	14:51	21	STL
09 "	16:45	13	OSB
09 "	16:58	21	OSB
09 "	17:20	33	STL
09 "	19:43	12	STL Poss. Riverdale
09 "	21:06	25	GSC
10 "	15:14	22	OSB
10 "	16:11	19	STL
11 "	16:00	12	OSB
11 "	17:15	24	STL
11 "	18:27	21	STL
11 "	19:11	7	STL Poss. Mt. Hope
12 "	17:12	20	STL
12 "	17:48	44	GSC
14 "	14:10	24	STL
14 "	15:00	13	OSB
14 "	16:00	24	OSB
16 "	12:50	24	GOB
16 "	13:12	21	GOB
16 "	15:57	13	GOB
16 "	16:54	24	GSC
16 "	17:00	15	GSC
16 "	18:00	20	GSC
17 "	15:57	25	GOB
17 "	16:35	22	STL
17 "	16:46	12	STL Poss. Riverdale
17 "	17:33	21	STL

TABLE IVA

(continued)

Date	Time (UTC)	S-P at Nearest Stations	
18 August 1978	13:59	14	GOB
18 "	19:01	26	GSC
18 "	19:09	24	STL
18 "	20:07	54	GSC
19 "	20:13	45	GSC
21 "	13:56	24	GOB
21 "	14:10	19	GOB
21 "	15:58	8	GOB
21 "	17:47	25	GOB
21 "	20:09	25	GOB
22 "	14:30	21	GOB
22 "	16:13	25	CHR
22 "	16:34	21	CHR
22 "	17:01	20	CHR
22 "	17:15	21	GSC
23 "	14:13	18	CHR
23 "	16:16	14	GSC
23 "	16:42	20	CHR
23 "	20:14	44	CHR
23 "	21:36	20	GOB
24 "	13:33	27	GSC
24 "	15:01	20	GSC
24 "	15:15	18	GOB
24 "	15:56	13	GOB
24 "	16:15	19	GOB
25 "	15:18	22	CHR
25 "	15:25	21	CHR
25 "	21:36	20	GOB
26 "	19:33	26	GOB
28 "	17:44	18	SRM
28 "	19:02	12	STL Poss. Riverdale
28 "	21:40	20	GOB
39 "	15:15	22	GOB
39 "	15:27	23	CHR
30 "	14:59	22	SRM
30 "	15:09	20	CHR
30 "	16:00	20	GOB
30 "	16:14	19	GOB
30 "	21:41	17	WGL
31 "	12:49	16	CHR
31 "	15:04	24	CHR

TABLE IVB

PROBABLE QUARRY OR OTHER MAN-MADE BLASTS
WITH INDISTINCT PHASES

Date	Time (UTC)
01 June 1978	16:15
01 "	17:00
01 "	17:55
01 "	21:54
02 "	13:59
02 "	14:43
02 "	15:12
02 "	16:00
02 "	16:03
02 "	16:23
02 "	16:31
02 "	20:31
03 "	15:12
05 "	16:10
05 "	16:29
05 "	19:03
05 "	21:27
06 "	14:45
06 "	15:07
06 "	16:12
06 "	17:22
07 "	12:28
07 "	13:45
07 "	14:04
07 "	14:16
07 "	14:49
07 "	16:13
08 "	11:35
08 "	13:16
08 "	15:30
08 "	16:22
08 "	16:55
08 "	17:11
08 "	19:50
08 "	22:27
09 "	15:52
09 "	16:07
09 "	18:15
10 "	20:37
12 "	14:58
13 June 1978	13:54
13 "	13:56
13 "	16:31
13 "	17:56
13 "	19:19
13 "	20:10
14 "	15:05
14 "	15:45
14 "	15:52
14 "	15:53
14 "	16:07
14 "	16:26
14 "	17:19
14 "	19:27
15 "	13:08
15 "	13:46
15 "	14:25
15 "	14:34
15 "	14:59
15 "	15:59
15 "	20:29
15 "	22:27
16 "	14:02
16 "	14:29
16 "	15:42
16 "	15:45
16 "	15:47
16 "	16:15
16 "	16:59
16 "	17:00
16 "	17:49
16 "	20:39
19 "	04:57
19 "	14:45
19 "	14:48
19 "	15:30
19 "	16:19
19 "	17:02
19 "	17:58
19 "	19:57

TABLE IVB

(continued)

Date	Time (UTC)
12 July 1978	15:59
12 "	17:13
12 "	20:08
12 "	20:26
13 "	13:27
13 "	16:15
13 "	18:45
13 "	20:10
14 "	13:54
14 "	14:05
14 "	16:17
14 "	20:21
15 "	03:28
16 "	13:45
17 "	17:43
17 "	17:45
17 "	17:54
18 "	16:05
18 "	17:44
19 "	13:46
19 "	15:14
19 "	17:35
19 "	18:28
19 "	18:35
19 "	19:45
19 "	20:08
19 "	20:28
20 "	13:14
20 "	14:00
20 "	15:51
20 "	16:22
20 "	18:12
21 "	14:30
21 "	14:42
21 "	15:08
21 "	15:46
21 "	16:10
21 "	16:14
21 "	18:11
21 "	19:04
24 "	14:11
24 "	15:15
24 "	16:08
24 "	16:18
24 "	16:32
24 "	18:59
24 "	19:27
24 "	19:35
24 "	19:50
25 "	13:26
25 "	15:24
25 "	15:59
25 "	16:18
25 July 1978	17:20
25 "	17:23
25 "	17:53
25 "	19:37
26 "	13:13
26 "	16:05
26 "	19:31
27 "	05:48
27 "	14:57
27 "	15:29
27 "	16:07
27 "	16:13
27 "	19:06
27 "	19:33
27 "	20:02
28 "	14:00
28 "	14:45
28 "	15:08
28 "	15:49
28 "	16:14
28 "	16:25
28 "	17:28
28 "	17:41
28 "	18:03
28 "	18:23
28 "	23:55
29 "	14:36
31 "	13:45
31 "	14:30
31 "	17:11
31 "	17:12
31 "	18:24
31 "	19:10
31 "	23:13
01 August 1978	15:00
01	15:45
01	16:17
01	17:14
01	18:32
01	18:34
01	18:36
01	19:50
02	13:56
02	14:25
02	15:56
02	16:00
02	16:29
02	17:48
02	17:58
02	18:01
02	19:54

TABLE IVB

(continued)

Date	Time (UTC)	Date	Time (UTC)
19 June 1978	21:48	29 June 1978	15:39
20 "	14:07	29 "	16:03
20 "	14:58	29 "	17:48
20 "	16:15	29 "	18:39
20 "	16:30	30 "	13:09
20 "	17:45	30 "	14:57
20 "	18:04	30 "	14:58
20 "	18:18	30 "	15:46
20 "	19:23	30 "	15:47
21 "	14:47	30 "	20:08
21 "	14:54		
21 "	19:03	01 July 1978	16:23
21 "	22:44	03 "	16:05
22 "	02:45	03 "	16:14
22 "	12:29	03 "	20:52
22 "	14:37	05 "	14:58
22 "	16:13	05 "	16:01
22 "	16:19	05 "	16:28
22 "	16:41	05 "	17:05
23 "	13:18	05 "	17:18
23 "	14:32	06 "	15:10
23 "	15:27	06 "	15:42
23 "	15:29	06 "	15:54
23 "	17:29	06 "	16:18
23 "	19:56	06 "	18:03
23 "	20:27	06 "	18:15
24 "	13:34	06 "	18:30
24 "	17:11	06 "	18:46
25 "	13:40	06 "	20:45
26 "	12:59	07 "	13:58
26 "	14:37	07 "	20:09
26 "	16:00	08 "	04:00
26 "	16:05	10 "	14:15
26 "	16:27	10 "	15:07
26 "	16:46	10 "	16:02
26 "	18:09	10 "	16:24
27 "	14:41	10 "	17:22
27 "	14:44	10 "	18:40
27 "	15:55	10 "	19:59
27 "	16:08	11 "	15:00
27 "	16:11	11 "	16:05
27 "	16:16	11 "	16:14
27 "	17:01	11 "	16:16
27 "	19:46	11 "	16:18
28 "	18:19	11 "	18:25
28 "	19:34	11 "	19:44
29 "	21:15	11 "	19:52
29 "	13:49	11 "	20:45
29 "	14:59	11 "	21:30
29 "	15:24	12 "	14:28

TABLE IVB

(continued)

Date	Time (UTC)
02 August 1978	20:31
03 "	14:18
03 "	14:49
03 "	16:09
03 "	16:17
03 "	17:14
03 "	18:06
03 "	18:54
04 "	03:45
04 "	05:27
04 "	05:28
04 "	06:11
04 "	14:13
04 "	14:24
04 "	14:45
04 "	15:44
04 "	16:17
04 "	17:50
04 "	17:51
04 "	20:03
04 "	21:11
06 "	15:29
07 "	06:50
07 "	07:04
07 "	07:16
07 "	14:33
07 "	15:59
07 "	16:20
07 "	17:39
07 "	17:41
07 "	17:49
08 "	01:45
08 "	14:14
08 "	14:45
08 "	17:43
08 "	21:46
09 "	15:25
09 "	15:44
09 "	15:47
09 "	16:18
09 "	18:16
09 "	21:52
10 "	16:03
10 "	16:05
10 "	16:43
10 "	20:13
10 "	21:36
11 "	14:29
11 "	14:35
11 "	15:00
11 "	15:03
11 "	15:06
11 August 1978	16:25
11 "	16:59
11 "	17:45
11 "	18:32
11 "	20:24
11 "	22:53
14 "	17:04
14 "	18:11
14 "	20:19
14 "	22:05
15 "	16:14
15 "	17:47
15 "	21:01
16 "	13:59
16 "	15:00
16 "	16:10
16 "	16:18
16 "	17:16
16 "	17:25
16 "	18:48
16 "	19:29
16 "	19:57
17 "	14:10
17 "	15:00
17 "	15:51
17 "	16:08
17 "	16:15
17 "	19:44
17 "	20:05
18 "	14:15
18 "	15:00
18 "	16:04
18 "	16:05
18 "	16:08
18 "	16:16
19 "	17:30
21 "	08:48
21 "	14:27
21 "	14:30
21 "	15:49
21 "	15:53
21 "	16:02
21 "	16:21
21 "	16:23
21 "	20:02
21 "	20:45
21 "	20:51
22 "	15:16
22 "	16:05
22 "	16:19
22 "	17:19
22 "	18:00

TABLE IVB

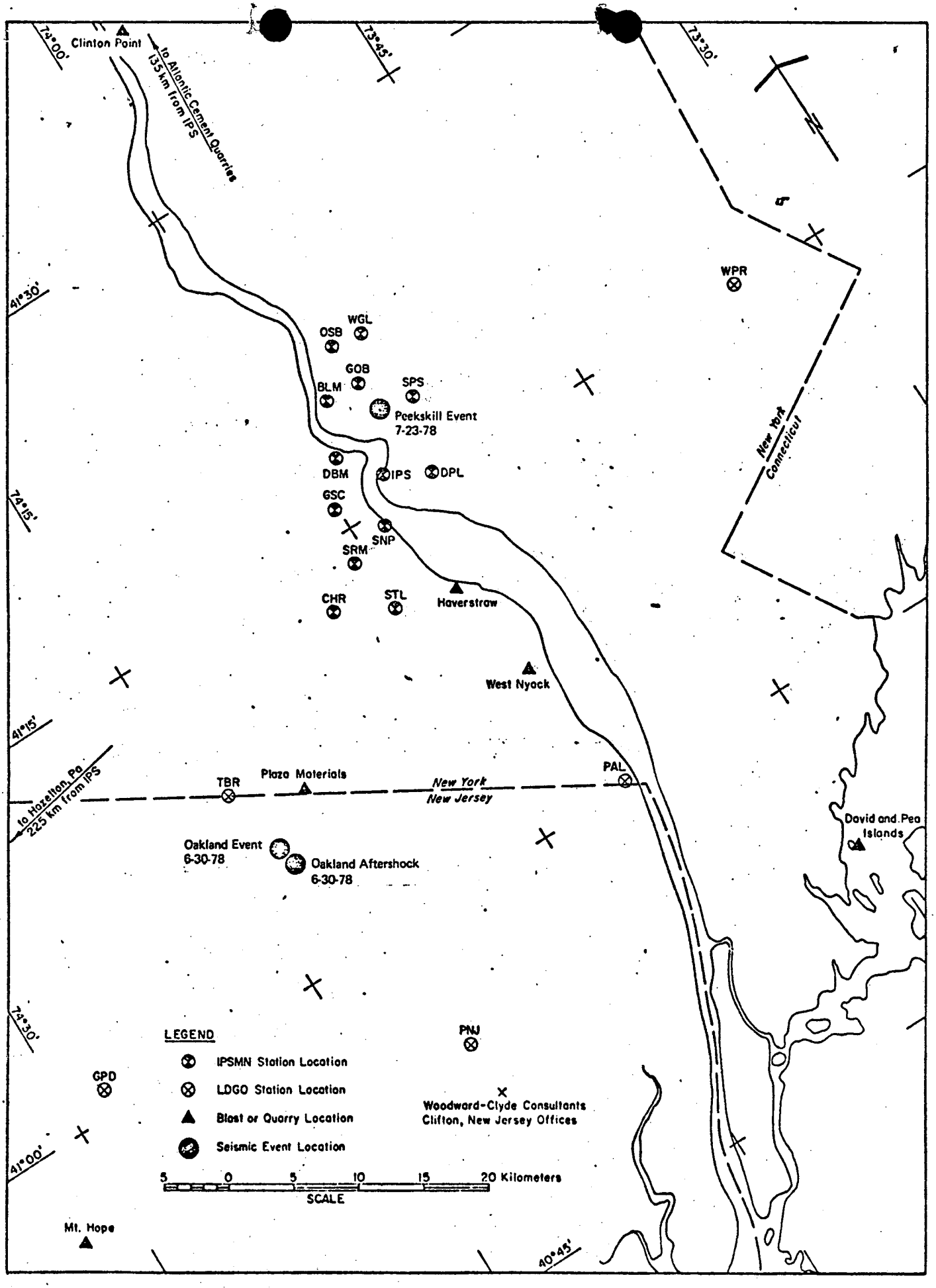
(continued)

Date	Time (UTC)
23 August 1978	13:43
23 "	13:56
23 "	14:10
23 "	14:34
23 "	14:55
23 "	16:07
23 "	16:18
23 "	18:48
23 "	18:49
23 "	18:57
23 "	19:56
23 "	22:20
24 "	13:18
24 "	14:30
24 "	14:34
24 "	14:47
24 "	15:49
24 "	16:22
24 "	17:43
24 "	17:44
24 "	19:08
25 "	15:50
25 "	16:49
28 "	16:06
28 "	16:42
28 "	20:05
29 "	15:00
29 "	15:28
29 "	15:48
29 "	16:07
29 "	16:12
29 "	16:25
29 "	20:20
30 "	13:59
30 "	14:30
30 "	15:00
30 "	15:12
30 "	15:41
30 "	15:46
30 "	16:06
30 "	16:24
30 "	18:26
30 "	19:57
30 "	20:05
30 "	20:36
30 "	21:12
30 "	23:47
31 August 1978	14:01
31 "	14:15
31 "	14:50
31 "	15:03
31 "	15:12
31 "	18:02
31 "	19:16

CONSOLIDATED EDISON NETWORK STATIONS

STATION LOCATION COORDINATE LISTING

IPS	41°N16.07'	73°W56.84
CHR	41°N12.49'	74°W03.26'
SPS	41°N18.12'	73°W53.44'
STL	41"N11.32'	74°W00.22'
GSC	41°N15.98'	74°W00.24'
SRM	41°N13.70'	74°W00.82'
DBM	41°N17.68'	73°W58.50'
BLM	41°N19.78'	73°W57.31'
OSB	41°N21.62'	73°W55.44'
GOB	41°N19.77'	73°W55.31'
SNP	41°N14.45'	73°W58.28'
WGL	41°N21.53'	73°W53.96'
DPL	41°N15.17'	73°W54.65'



INDIAN POINT SEISMIC MONITORING NETWORK

Docket 50-3

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

September 12, 1978

ALL POWER REACTOR LICENSEES

Gentlemen:

This letter is being sent to all licensees authorized to operate a nuclear power reactor and to all applicants with application for a license to operate a power reactor (FSAR docketed).

The NRC recently notified you that it had scheduled a series of meetings to discuss implementation of upgraded guard qualification, training and contingency planning requirements. The Region I meeting scheduled to be held on October 11, 1978 has been rescheduled to October 13, 1978. A revised schedule is enclosed.

For further information or comments, please contact Tom McKenna of my staff on (301) 492-7846.

Sincerely,

Jack W Roe
for

James R. Miller, Assistant Director
for Reactor Safeguards
Division of Operating Reactors

Enclosure:
Meeting Schedule & Locations

cc: Service List

Thos App
ccp

REVISED SCHEDULE

9:30 to 3:30

Region II	September 27, 1978	Stadium Hotel* 450 Capitol Ave., SE Atlanta, GA 30312 (404) 688-1900
Region III	October 3, 1978	Ramada O'Hare 6600 North Mannheim Rd. Des Plains, IL 60018 (312) 827-5131
Region IV & V	October 5, 1978	San Francisco Airport Hilton P. O. 8355 San Francisco, CA 94128 (415) 589-0770
Region I	October 13, 1978	Valley Forge Holiday Inn 260 Goddard Blvd. King of Prussia, PA 19406 (215) 265-7500

*Special rate for reservations received before September 15, 1978.

cc: White Plains Public Library
100 Martine Avenue
White Plains, New York 10601

Leonard M. Trosten, Esquire
LeBoeuf, Lamb, Leiby & MacRae
1757 N Street, NW.
Washington, D.C. 20036

Anthony Z. Roisman
Natural Resources Defense Council
917 - 15th Street, NW
Washington, D.C. 20005

Paul S. Shemin, Esquire
Assistant Attorney General
State of New York
Department of Law
Two World Trade Center
New York, New York 10047

Sarah Chasis, Esquire
Natural Resources Defense Council
122 East 42nd Street
New York, New York 10017

Docket 50.3

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

August 25, 1978

ALL POWER REACTOR LICENSEES

Gentlemen:

This letter is being sent to all licensees authorized to operate a nuclear power reactor and to all applicants with application for a license to operate a power reactor (FSAR docketed).

The NRC has scheduled regional meetings to discuss the upgraded guard qualification and training requirements published in the Federal Register on August 23, 1978 and the guidance on this requirement contained in NUREG 0219 as well as the contingency planning requirements published in the Federal Register on March 23, 1978. An agenda, the dates and locations of the meetings, and a registration form are enclosed. Please complete the registration form and return it to Mr. Frank G. Pagano, Jr., Chief, Reactor Safeguards Development Branch, Nuclear Regulatory Commission, Washington, D.C. 20555. Hotel arrangements are the responsibility of each attendee.

For further information or comments, please contact Tom McKenna of my staff on (301) 492-7846.

Sincerely,

James R. Miller, Assistant Director
for Reactor Safeguards
Division of Operating Reactors

Enclosures:
1. Meeting Agenda
2. Meeting Schedule & Locations
3. Registration Form

CC: Service List

Transmittal
1
CCP

ENCLOSURE 1

IMPLEMENTATION OF 10 CFR 73 APPENDICES B AND C GUARD TRAINING AND CONTINGENCY PLANNING

Meeting Agenda

Sept. 27 - Atlanta; Oct. 3 - Chicago
Oct. 5 - San Francisco; Oct. 11 - Philadelphia

TIME	SPEAKER	SUBJECT
9:00 - 9:10	J. Miller	Introduction
9:10 - 9:20	V. Stello	NRC Safeguards Responsibility
9:20 - 9:30	F. Pagano	Why We Adopted This Approach
9:30 - 9:45		Coffee Break
9:45 - 10:30	T. McKenna	The Approach
10:30 - 11:15	T. McKenna	10 CFR 73 Appendix B Guard Training
11:15 - 11:45	J. Roe	Contingency Plans
11:45 - 12:00	R. Clark	NRR Staff Reviews
12:00 - 1:30		Lunch
1:30 - 3:00		Question/Answer
3:00 - 3:30	J. Miller/ V. Stello	Closing Remarks

ENCLOSURE 2

SCHEDULES AND LOCATIONS

Region II	September 27, 1978	Stadium Hotel* 450 Capitol Ave., SE Atlanta, GA 30312 (404) 688-1900
Region III	October 3, 1978	Ramada O'Hare 6600 North Mannheim Rd. Des Plains, IL 60018 (312) 827-5131
Region IV & V	October 5, 1978	San Francisco Airport Hilton P. O. 8355 San Francisco, CA 94128 (415) 589-0770
Region I	October 11, 1978	Valley Forge Holiday Inn 260 Goddard Blvd. King of Prussia, PA 19406 (215) 265-7500

*Special rate for reservations received before September 15, 1978.

ENCLOSURE 3

Registration Form

Implementation of 10 CFR 73 Appendix B
Security Personnel Qualification Training and
Equipment Requirements by Commercial Nuclear
Power Reactors

Regional Meeting

Date _____

Place _____

Utility Represented _____

Individuals Attending:

Name _____

Title _____

Office Phone _____

Name _____

Title _____

Office Phone _____

Name _____

Title _____

Office Phone _____

Name _____

Title _____

Office Phone _____

RETURN THIS FORM BY SEPTEMBER 22, 1978 TO:

U. S. Nuclear Regulatory Commission
Office of Nuclear Reactor Regulation
ATTN: Frank G. Pagano, Jr.
Washington, D. C. 20555

cc: White Plains Public Library
100 Martine Avenue
White Plains, New York 10601

Leonard M. Trosten, Esquire
LeBoeuf, Lamb, Leiby & MacRae
1757 N Street, NW.
Washington, D.C. 20036

Anthony Z. Roisman
Natural Resources Defense Council
917 - 15th Street, NW
Washington, D.C. 20005

Paul S. Shemin, Esquire
Assistant Attorney General
State of New York
Department of Law
Two World Trade Center
New York, New York 10047

Sarah Chasis, Esquire
Natural Resources Defense Council
122 East 42nd Street
New York, New York 10017

Docket File
50-3

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

August 9, 1978

ALL PWR LICENSEES

Gentlemen:

The Division of Operating Reactors, Office of Nuclear Reactor Regulation, has organized a two-day PWR Steam Generator Conference to be held at the Holiday Inn in Bethesda, Maryland on September 7 and 8, 1978. The purpose of the conference is to provide an opportunity for industry, government, national laboratory, foreign, and possible public representatives to present and discuss operating experience relevant to steam generators and to exchange ideas for integrating design, inspection and operating procedures to ensure more reliable, safe operation of steam generators at nuclear power facilities.

Attached for your use is a Notice of the Conference and a tentative agenda.

Please notify Dr. B. D. Liaw, Division of Operating Reactors, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555, telephone (301) 492-8060 of your intent regarding attendance at the conference by August 25, 1978.

D. G. Eisenhut, Assistant Director
for Systems and Projects
Division of Operating Reactors

Enclosures:
1. Notice of Conference
2. Tentative Agenda

MIOC App 1
CCP

ENCLOSURE NO. 1

CONFERENCE NOTICE

The Nuclear Regulatory Commission will sponsor a two-day Pressurized Water Reactor Steam Generator Workshop at the Holiday Inn in Bethesda, Maryland on September 7 and 8, 1978. The purpose of the workshop is to provide an opportunity for industry, government, national laboratory and foreign organizations, and possibly, public representatives to present and discuss operating experience relevant to steam generator tube degradation and to exchange ideas for integrating design, inspection and operating procedures to ensure safe operation of steam generators at nuclear power facilities. The workshop will be comprised of presentations by invited speakers followed by a panel discussion.

Requests for additional information, including requests to participate, should be addressed to Dr. B. D. Liaw, Division of Operating Reactors, U. S. Nuclear Regulatory Commission, Washington, D. C. 20555. Telephone (301) 492-8060.

A tentative agenda of the workshop is attached.

ENCLOSURE NO. 2

PRESSURIZED WATER REACTOR STEAM GENERATOR WORKSHOP

DIVISION OF OPERATING REACTORS

OFFICE OF NUCLEAR REACTOR REGULATION

U. S. NUCLEAR REGULATORY COMMISSION

WASHINGTON, D. C. 20555

General Chairman: Darrell G. Eisenhut, Assistant Director for Systems and Projects
Division of Operating Reactors

September 7, 1978

8:00 a.m. - Registration

INTRODUCTORY SESSION: D. G. Eisenhut

9:00 a.m. - Opening and Welcome Remarks (V. Stello)

9:10 a.m. - Licensing Bases for Continued Operation of PWR Steam Generators (D. G. Eisenhut)

9:30 a.m. - NRC Confirmatory Research Programs (C. Z. Serpan)

- Coffee Break -

GENERAL SESSION: L. C. Shao

10:00 a.m. - Westinghouse Steam Generator Operating Experiences (Representative - Westinghouse Electric Corporation)

10:30 a.m. - Combustion Engineering Steam Generator Operating Experiences (Representative - Combustion Engineering)

11:00 a.m. - B&W Steam Generator Operating Experiences (Representative - Babcock & Wilcox, Inc.)

- Lunch Break -

TECHNICAL SESSION I: J. P. Knight

1:30 p.m. - Eddy Current Inspection Method Evaluation
(Representative - Battelle Columbus)

2:00 p.m. - Advanced ECT Probe Development
(Representative - ZETEC, Inc.)

2:30 p.m. - PNL Steam Generator Tube Integrity Program
(Representative - Pacific Northwest Laboratory)

- Coffee Break -

3:30 p.m. - BNL Stress Corrosion Tests
(Representative - Brookhaven National Laboratories)

4:00 p.m. - DOE Chemical Cleaning Program
(Representative - U. S. Department of Energy)

September 8, 1978

TECHNICAL SESSION II: B. D. Liaw

9:00 a.m. - Model Boiler Test for Reproducing Tube Denting
(Representative - Combustion Engineering, Inc.)

9:30 a.m. - Improved Westinghouse Steam Generator Design to Avoid Various Forms of Tube Degradation
(Representative - Westinghouse Electric Corporation)

10:30 a.m. - Experience with Condenser Failures, Retubing and Consequence
(Representative - Westinghouse Electric Corporation)

11:00 a.m. - Turkey Point Steam Generator Replacement Program
(Representative - Bechtel Power Corporation)

- Lunch Break -

1:30 p.m. - PANEL DISCUSSIONS: D. G. Eisenhut

Panel Members: J. R. Weeks, L. Frank, J. Muscara, J. Scinto, F. Almeter, B. D. Liaw, and various industry representatives

- Need for Secondary Water Chemistry Control
- Steam Generator Tube Denting, Support Plate Cracking and Deformation
- Regulation and Regulatory Guide Interpretations - Tube Plugging Criteria, ISI Requirements
- Development ECT Inspection Techniques
- Additional Research Programs

cc: White Plains Public Library
100 Martine Avenue
White Plains, New York 10601

Leonard M. Trosten, Esquire
LeBoeuf, Lamb, Leiby & MacRae
1757 N Street, NW.
Washington, D.C. 20036

Anthony Z. Roisman
Natural Resources Defense Council
917 - 15th Street, NW
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Paul S. Shemin, Esquire
Assistant Attorney General
State of New York
Department of Law
Two World Trade Center
New York, New York 10047

Sarah Chasis, Esquire
Natural Resources Defense Council
122 East 42nd Street
New York, New York 10017

UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Docket 50.3

August 4, 1978

GL-78-30

All Power Reactor Licensees

GL-78030

Gentlemen:

This letter and enclosed NUREG-0219 titled "Nuclear Security Personnel for Power Plants, Content and Review Procedures for a Security Training and Qualification Program," dated July 1978, are being sent to all licensees authorized to operate a nuclear power reactor and to all applicants with applications for a license to operate or construct a power reactor.

Within the next few weeks the Commission is scheduled to publish in final form amendments to 10 CFR 73 to impose upgraded qualification, training, and equipping requirements for security personnel protecting against theft of special nuclear material and industrial sabotage of nuclear facilities or nuclear shipments. The enclosed document provides a basis on which commercial nuclear reactor applicants and licensees can develop acceptable programs to implement these new requirements.

A second draft of this document was published for comment on April 21, 1978 and as a result the staff has considered the comments received and incorporated many changes. The following summarizes the major comments received and how the NRR staff addressed them in preparing the final document:

1. Approximately one third of the 32 that commented stated that the sample plan indicated an excessive amount of detail and the guidance should not exceed that currently given for safety related training.

   The final document contains only 25 pages of guidance (Parts 1&2); the remainder is a sample plan. The sample was provided to assist the applicants and licensees in preparation of a plan based on a new approach. As noted in item 3 below, the sample should not be considered a requirement.

   The staff reformated the sample plan to reduce the amount of detail and removed many tasks based on the ratings submitted in response to the request in Draft 2. This resulted in a reduction of 46% in the number of pages devoted to performance objectives (173 vs. 94) and a reduction of 44% in the number of performance objectives (344 vs. 191). A further reduction should be realized when the site analysis is completed, since the sample plan includes many tasks that are not appropriate for all sites.

Attachment 4

0312803810 CCP

2. Many comments stated that the number of onsite evaluations by the NRC was excessive (i.e., 1 by NRR every 2 years and 3 each year by I&E).

   The I&E schedule set forth in the draft was based on the established frequency of onsite I&E physical security inspections with the assumption that these inspections would be expanded to include training and personnel qualification. However, all references to I&E inspection have now been deleted from the final version since this document addresses NRR policy only.

3. Some commented that although we state that each site is required to develop a qualification program based on a site specific job analysis, that the NRR reviewers would treat the sample plan in NUREG-0219 as the only acceptable approach.

   The NRR staff feels that the sample plan provides valuable guidance and should remain in the document. However, the final version was revised to stress that the sample is not a requirement. One example is found on page 1-1 and reads:

   > "It must be stressed that it is the responsibility of each site, using the methodology described in this document, to identify its site-specific tasks, elements, and performance objectives. The security program selected must evaluate each individual's ability to implement the site-approved physical security and contingency plans. Training and evaluation are not done for their own sake.
   >
   > The sample qualification plan found in part 3 should not be considered a requirement, but only a guide; Each specific site plan is reviewed on its own merits."

4. Other comments stated that tasks shown in the sample were too extensive. They indicated that the sample program exceeded that required by most military and police organizations and/or the requirements to meet the 73.55 threat level. A few commented that the type of response indicated in the sample plan is outside the responsibility and capabilities of private security.

   The applicants and licensees are required to identify in their qualification plan only those security tasks critical to successful implementation of the site contingency and physical security plans. If a licensee can develop acceptable contingency plans that meet the threat and do not require police or military tactics, then the tactical tasks can be deleted. However, it must be realized that the military and police are the only organizations with experience dealing with such problems. The vast majority of the military and police related tasks contained in the sample are at the basic training level.

5. Finally, a few commented that the NRC should hold working sessions with the utilities to develop its detailed requirements.

   Although the actual development of training and qualification plans are the responsibility of each licensee, NRR is planning to hold a series of workshops with the utilities to develop a mutual understanding of how to implement the methodology described in NUREG-0219. These workshops will be small and devoted to actual plan development.

Additional copies of NUREG-0219 can be obtained from the National Technical Information Service, Springfield, Virginia 22161 at current prices.

Sincerely,

James R. Miller, Assistant Director
for Reactor Safeguards
Division of Operating Reactors

Enclosure:
NUREG-0219

cc w/o enclosure:
Service List

cc: White Plains Public Library
100 Martine Avenue
White Plains, New York 10601

Leonard M. Trosten, Esquire
LeBoeuf, Lamb, Leiby & MacRae
1757 N Street, NW.
Washington, D.C. 20036

Anthony Z. Roisman
Natural Resources Defense Council
917 - 15th Street, NW
Washington, D.C. 20005

Paul S. Shemin, Esquire
Assistant Attorney General
State of New York
Department of Law
Two World Trade Center
New York, New York 10047

Sarah Chasis, Esquire
Natural Resources Defense Council
122 East 42nd Street
New York, New York 10017