

January 23, 1981

MEMORANDUM FOR: Mr. P. Jerman, Radiation Specialist
FROM: Senior Resident Inspector, T. A. Rebelowski
Indian Point
SUBJECT: Inspection of ION Track Instruments - Indian Point

Indian Point, Unit 2 has in use three #75 ION Track explosive detectors. These detectors have been leak tested since unit activation on 5-1-79. Per your memorandum, the unit was retested on 1-21-81 with the following results:

ITI Model #75 - Source Control #73 - Beta less than 1.3×10^{-5} uCi
ITI Model #75 - Source Control #74 - Beta less than 1.3×10^{-5} uCi
ITI Model #75 - Source Control #75 - Beta less than 1.3×10^{-5} uCi

The three ION Track Instruments Model #55 portable explosive meters have been tested. The results are all sealed sources beta less than 1.3×10^{-5} uCi.

Indian Point, Unit 3 has in use three #75 ION Track explosive detectors, and three #55 portable explosive detectors. All instruments have been swiped with the following results:

All swipes (cotton swabs) were reading less than .001 uCi.

T. Rebelowski



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

January 22, 1981

MEMORANDUM FOR: A. N. Fasano, Chief, Site Operations Section,
TMI Program Office

THRU: M. M. Shanbaky, Senior Radiation Specialist,
Site Operations Section, TMI Program Office

FROM: T. Moslak, Radiation Specialist,
Site Operations Section, TMI Program Office

SUBJECT: LEAK TESTING NICKEL-63 SOURCES

Reference: Memorandum to Resident Inspectors from E. J. Brunner,
dated January, 11, 1981

In accordance with the above reference, Three Mile Island security personnel were contacted to ascertain if explosive detectors manufactured by Ion Track Instruments (ITI), Inc. were used on site, and if so, had leak tests been performed on Nickel-63 sources.

Two walk-through (ITI-75) monitors are being used in the Unit 1 Processing Center. A portable unit (ITI-70) is in storage and not routinely used.

To date, no leak tests have been performed on any of the Nickel-63 sources that serve as detector components.

The licensee has been requested to perform the leak tests on these sources. Immediate action has been taken by the licensee to issue a Priority-1 Work Request to have the monitors dismantled and have the tests performed. Test results will be reported to the TMI Program Office.

A handwritten signature in black ink, appearing to read "T. Moslak", written over a horizontal line.

T. Moslak
Radiation Specialist
Site Operations Section
TMI Program Office

cc: R. Conte
D. Haverkamp
E. Brunner
~~P. Jerman~~
L. Barrett

TO: P. Jenn M
E. C. McCabe

JAN 22 1981

00:00

FROM R. ARCHITZEL, CALVERT CLIFFS

Survey of Explosive Detectors

On January 22, 1981 the inspector was directed to perform a survey of ~~explosive~~ portable gas detectors.

Explosive detectors manufactured by Ion Tech Instruments, Inc., Burlington, Massachusetts contain a nickel-63 source, which is exempt from NRC licensing. At two nuclear power plants, these sources have been found to have removable content in excess of 0.005 microcuries.

The inspector examined the following instruments used for combustible gas analysis:

Operations: GasTech, Inc., Model GX-3, BGE Serial 741

GasTech, Inc., Model GX-3, BGE Serial 880

Mine Safety Appliances, Explometer Model 3, BGE Serial 63

Mine Safety Appliances, Explometer Model 3, BGE Serial 63

General Electric, Thermal Conductivity Gas Analyzer, Cat. 421D183

Machine Shop: Biomarine, Model 300R, BGE Serial 9669

Discussions indicated these were the only portable gas analyzers used by the licensee at the site. The inspector further noted the non-safety related designation of these instruments and that they were not included on a periodic calibration program. The inspector discussed this aspect with the Industrial Safety Inspector, who acknowledged the inspector's comment. No items of noncompliance were identified.

1.5 HOURS PPI 1.0 HOUR DOC.

Prunewide

1-12,000 d/m.

2-Clam

Lavin Foster

427-4228

~~Handwritten scribble~~

Susquehanna

180,000 d/m

2-75

2-75 1 < MDA
1 - 26,000 d/m.
~~1 - 11,000 d/m.~~

No Report Made (did call)

Haddam Neck (Tom) T.H. Smith

244-2000
267-2571

JMI

Tom Mostak 8-590-1142

Shoreham

J.C. Higgins 8-516-929-3311

Jim

(will do this week)

3 devices are $> 0.095 \mu Ci$
other two < MDA.

Reported No ITI Devices

Salem.

Calvert Cliffs

GINNA

Seabrook

Nine Mile Point.

Hope Creek

Limvick

Reported 1 TI Devices

Millstone 7 Devices all contaminated w/ $> 8,000 d/m.$

Oyster Creek 1 of 4 devices tested < MDA.

Beaver Valley 10 Devices 9 showed < MDA

Peach Bottom 4 Devices < MDA

Susquehanna 8 Devices (1 leak tested - $180,000 d/m.$)

Maine Yankee 1 Device < MDA

Pilgrim 5 Devices < MDA

Vermont Yankee 2 Devices < MDA

Yankee Rowe 1 Device 38,000 d/m (07)

Fitzpatrick 3 Devices .05 to .18 μCi

Indian Point 12 Devices < MDA

46 leak tests reported; 5 were $> .005$; 7 $< .005$; 34 < MDA
5 1 1 3

Jerman

1/11/81

*\$100 -
Priority*

MEMORANDUM FOR: Resident Inspectors

FROM: Region I

Background:

Explosive detectors manufactured by Ion Track Instruments, Inc., Burlington, Massachusetts contain a nickel-63 source, which is exempt from NRC licensing. At two nuclear power plants, these sources have been found to have removable contamination in excess of 0.005 microcuries.

Action: 1) Determine if Ion Track Instruments, Inc., Model Nos. 75,70, 62,61,56, 50.5 SF6, 47 or 37 are in use at your assigned station.

2) Request that the licensee leak test the sources contained in these devices as soon as possible.

3) Report the results of 1 and 2 above to P. Jerman, 488-1215 by c.o.b. January 22, 1981.

EJ Brunner

*Above was faxed
to all residents
& receipt verified
Docket Room*

JUN 02 1980

✓ Docket No. 30-9270

Ion Track Instruments
ATTN: Nicholas Theohary
Radiological Safety Officer
Three A Street
Burlington, Massachusetts 01803

Gentlemen:

This refers to your letter dated April 28, 1980.

Your letter has been forwarded to the USNRC Office of Nuclear Material Safety and Safeguards, Materials Licensing Branch, Washington, D.C. 20555 for their action. In the future all licensing correspondence should be sent to that address.

Your cooperation with us is appreciated.

Sincerely,

Hilbert W. Crocker, Acting Chief
Materials Radiological Protection
Section

bcc:
IE Mail & Files (For Appropriate Distribution)
Central Files
Public Document Room (PDR)
Nuclear Safety Information Center (NSIC)
REG:I Reading Room
Commonwealth of Massachusetts (2)

OFFICE ▶	FFMS	FFMS				
SURNAME ▶	<i>Kinneman</i> Kinneman/cgo	<i>Crocker</i> Crocker				
DATE ▶	5/29/80	5/30/80				



ION TRACK INSTRUMENTS, INC.
Three A Street • Burlington, MA 01803 • 617-272-7233

April 28, 1980

U.S. Nuclear Regulatory Commission
Directorate of Regulatory Operations
Region I, 631 Park Avenue
King of Prussia, PA 19406

SUBJECT: Change of address for Ion Track Instruments, Inc.
License Number 20-15525-02E

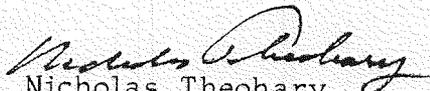
GENTLEMEN:

As of 30 April 1980 the licensee's address is changed from Three A Street, Burlington, Massachusetts 01803 to 109 Terrace Hall Avenue, Burlington, Massachusetts 01803. TWX and telephone numbers will remain the same, i.e. TWX: 710-332-1808, TEL: 617-272-7233.

Request action be taken to amend our license and be reflected in appropriate records. Please acknowledge.

Sincerely,

ION TRACK INSTRUMENTS, INC.


Nicholas Theohary
Radiological Safety Officer
Lt/Colonel U.S.A.F. Retired.

NT/sc