

APPENDIX A-10

Memorandum 7/28/2000, Regarding
Radiation Safety Survey One WTC

THE PORT AUTHORITY OF NY & NJ

MEMORANDUM

TO: George Tabeeek, Project Manager
FROM: Paul W. Mitchell
DATE: July 28, 2000
SUBJECT: RADIATION SAFETY SURVEY - ONE WORLD TRADE CENTER

COPY TO: N. Chanfrau, D. Karpiloff, M. Plaskon, P. Taylor, G. Wojnar

On June 14, 2000, George DeFreese of my staff conducted the semi-annual Radiation Safety Survey of the Barringer IONSCAN 400 Ion Mobility Spectrometer located in the lobby of 1 WTC. Possession and use of the instrument is in compliance with the conditions of the general license. The conditions of the general license are found in Appendix A at the rear of the instrument's instruction manual. The instrument is registered with the New York State Department of Labor registration number X-14101.

The survey included an inspection of the storage area and of the instrument, and leak test sampling. The results of the survey are attached. Leak test sampling of the instrument was performed in order to detect removable (leaking) radioactive material from the Nickel 63 sealed source unit. The sample was submitted to Monitoring Services for analysis and the result was found to be acceptable. A copy of the report is attached for your records. A copy of the current leak testing result (not older than six months) must accompany the instrument at all times.

The next radiation safety survey will be conducted in November, 2000.

If you have any questions about this survey or require information regarding radiation safety, please call me at (201) 216-2173.

Paul W. Mitchell

Paul W. Mitchell, CIH
Manager
Occupational Health
Inspection and Safety Division

Attachments

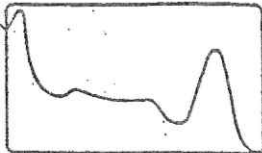
Post-It™ brand fax transmittal memo 7671		# of pages »
To	UNDER	
Co.	OSH 1999	
Dept.	Phone #	
Fax #	RADIAT 102	

WORLD TRADE DEPARTMENT
WORLD TRADE CENTER
RADIOACTIVE SAFETY SURVEY

INSTRUMENT	REMOVABLE RADIOACTIVITY CONCENTRATION	INSTRUMENT IS SECURELY STORED	INSTRUMENT IS PROPERLY LABELLED	OPERATOR'S MANUAL IS AVAILABLE
Barringer Instruments IONSCAN 400 Ion Mobility Spectrometer Serial No. 10A	Acceptable	Yes	Yes	Yes

Inspection and Safety Division

July, 2000



Monitoring Services

P.O. BOX 266677 • HOUSTON, TEXAS 77256-0648 • AREA CODE 713/242-9038 • FAX 713/242-9039

SEALED SOURCE LEAK TEST CERTIFICATE

PORT AUTHORITY OF NY & NJ
241 ERIE STREET ROOM 306
JERSEY CITY, NJ 07310
ATTN OF: PAUL MITCHELL

C FILE 2194

S FILE 29436

N FILE 1662

INVOICE NO. _____ DATE _____

RADIONUCLIDE NI-63

ACTIVITY 15 MCI CI SERIAL NO. 10A

WIPE DATE 061400 WIPED BY _____

EFF .652

GROSS CPM 31 BKG. CPM 21 NET CPM 10

NET CPM _____ = MICROCURIE

EFFX2 22X10⁶ DPM/ μ CI

THE ABOVE SOURCE WIPE TEST HAS BEEN ASSAYED IN ACCORDANCE WITH OUR RADIOACTIVE MATERIAL LICENSE AND THE APPROPRIATE REGULATORY REQUIREMENTS. THE REGULATIONS DEFINE A LEAKING SOURCE AS ONE FROM WHICH AN APPROPRIATE WIPE TEST HAS REMOVED 0.005 MICROCURIE OR MORE OF ACTIVITY

THE REMOVABLE ACTIVITY WAS 6.91E-06 MICROCURIE

ASSAY NO. 070500 11 DATE 07-05-20.00

ASSAYED BY *Paul Mitchell*

APPENDIX B

Photo #1:
360-Foot antenna
mast on One World
Trade Center.

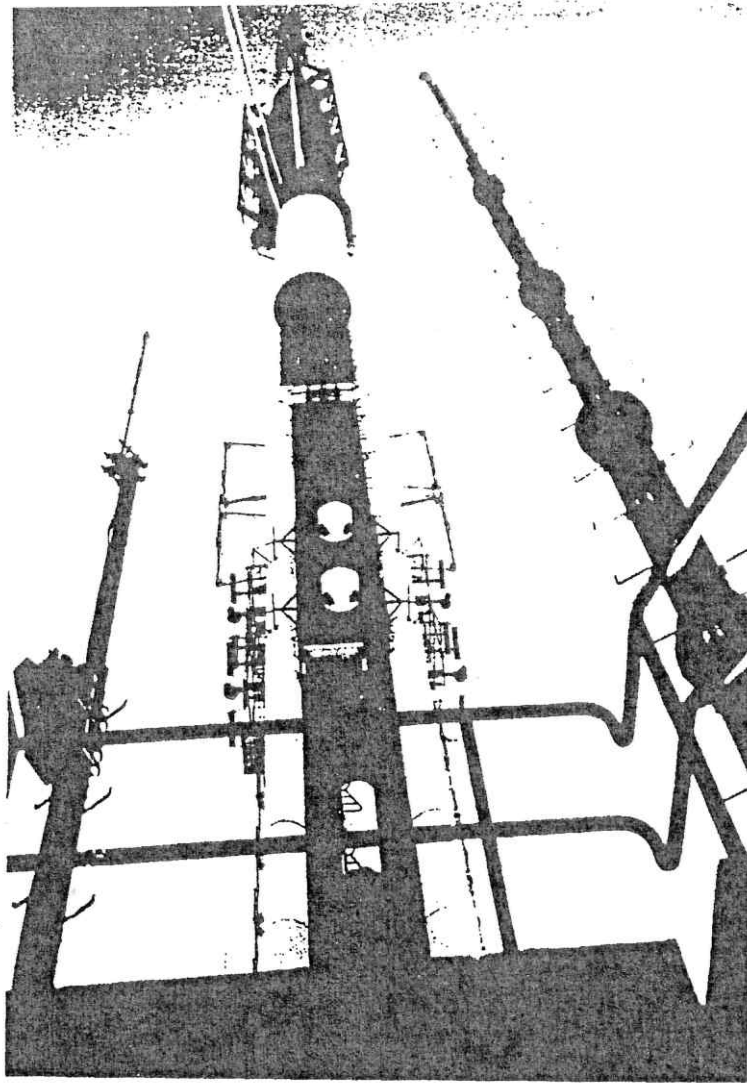
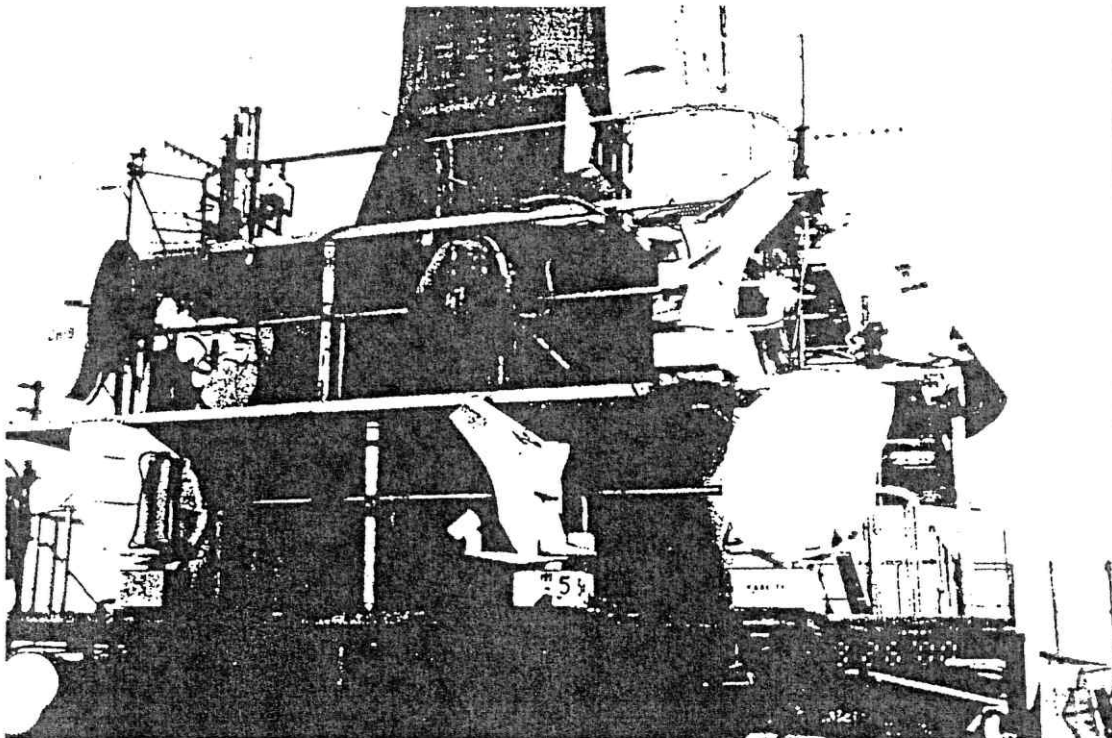


Photo #2: Base
of antenna mast
on One World
Trade Center.



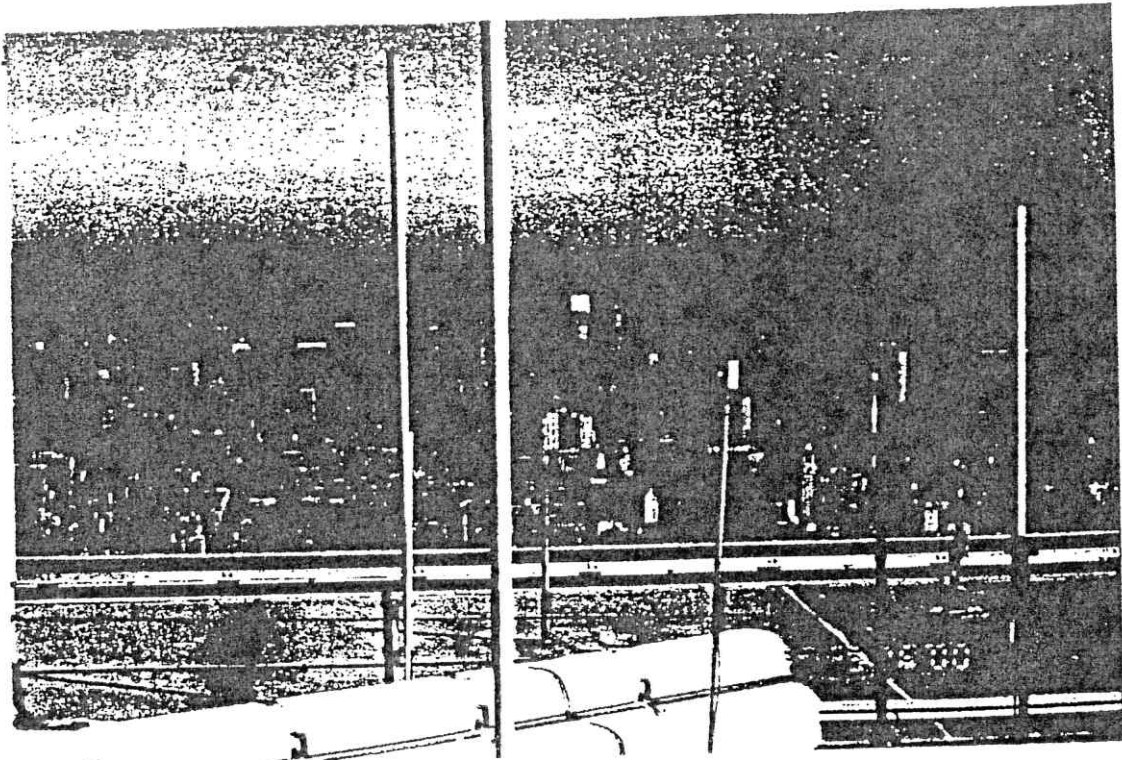


Photo #3: Roof – One World Trade Center.

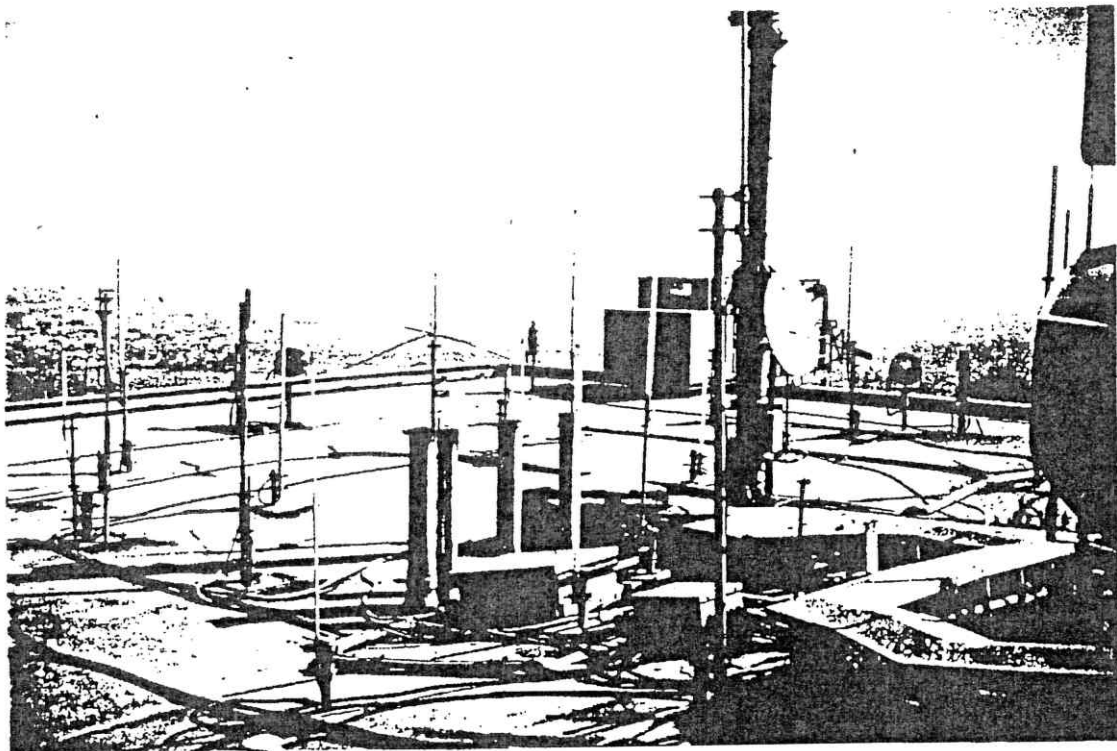


Photo #4: Roof – One World Trade Center.

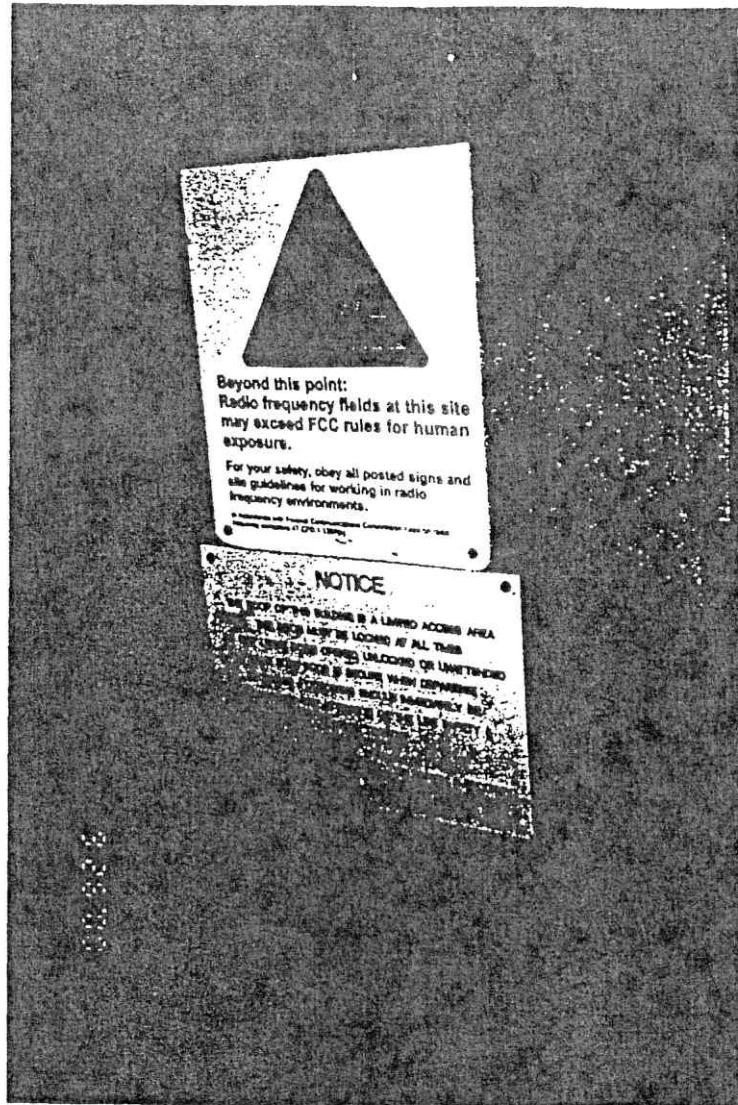


Photo #5: Signage at door to roof – One World Trade Center.

ATTACHMENT 9

Heitmann & Associate Curtain Wall Evaluation



HEITMANN & ASSOCIATES, INC.
BUILDING ENCLOSURE CONSULTANTS
HONG KONG • NEW YORK • ST LOUIS

EXECUTIVE SUMMARY

One World Trade Center New York, New York

Curtain Wall Evaluation
6 November 2000

The results of our on-site evaluation of the current condition of the curtain wall system on the One World Trade Center project is summarized as follows.

Having been regularly maintained and inspected the general condition of the curtain wall on the tower is relatively good. The curtain wall system appears to be structurally sound and generally air and water tight. The main issues of concern relate to the external appearance of the curtain wall and the ongoing maintenance program that is currently in place.

The original finish on the curtain walls is a clear or natural anodize with a clear lacquer top coat. Over the years the top coat has begun to peel causing a blotchy appearance and the anodized finish has stained and discolored at different rates resulting in a patchwork appearance. One option for improving the appearance of the tower is to repaint the aluminum surfaces of the curtain wall in the field. While minor areas of deterioration of the aluminum has been reported, the primary need for refinishing is to improve the appearance of the tower.

The maintenance program is designed to address issues of water leakage, sealant deterioration, gasket deterioration, component deterioration/failure and any other issues noted during the inspection process. Each tower elevation is inspected every four to five years in accordance with the Local Law requirements. Areas of water leakage appear to be minimal and randomly located, indicating no consistent or typical problem. Sealant and gasket deterioration are dealt with on an "as needed" basis. The issue of component deterioration/failure primarily relates to problems with the operation of the automated window washing system that has resulted in deterioration/failure of the fasteners that fix the window washing platform guide track to the curtain wall system. Recent inspection reports indicate that modifications made to the window washing system appear to have alleviated the problems.

Given the age of the sealants and gaskets it is likely that spot replacement/repairs will continue to be necessary until ultimately all the areas have been replaced or repaired. Thus,

EXECUTIVE SUMMARY

One World Trade Center

New York, New York

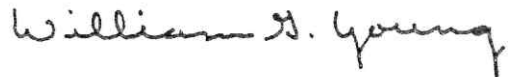
Curtain Wall Evaluation

6 November 2000

it would be appropriate to consider addressing all sealant and gasket issues in one comprehensive remedial program covering all of the tower. This would be a major undertaking on a project of this size. Once it is proven that the modifications to the window washing system have been effective in eliminating the damage to the track fasteners, any remaining repairs to the track or its fasteners could also be incorporated into the comprehensive remedial program.

Our full report will address these issues in greater detail.

Respectfully submitted,
HEITMANN & ASSOCIATES, INC.



William G. Young
Manager, East Coast Office