



AlliedSignal Inc.
Nuclear/Fluorine Specialties
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Metropolis, IL 62960 USA

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Public/PDR
040-3392

March 13, 1998

Certified Mail:
P-218-965-238

Region III
U.S. Nuclear Regulatory Commission
Office of Inspection and Enforcement
801 Warrenville Road
Lisle, Illinois 60532-4351

Gentlemen:

Subject: SUB-526
Docket No. 40-3392

We have enclosed two (2) copies of our "Facility Effluent Report" representing the period of July 1, 1997 to January 1, 1998.

Sincerely,

P. G. Gasperini
Interim Plant Manager

PGG/sm

Enclosure: Facility Effluent Report (2)

cc: Director, Nuclear Material Safety & Safeguards
Nuclear Regulatory Commission
Washington, D.C. 20555
Enclosure: 6 copies

R. Boucher - (MEY-4)
M. L. Shepherd
S. Stewart
H. C. Roberts
File

Mr. Steven C. Collins
IL Dept. of Nuclear Safety
1035 Outer Park Drive
Springfield, IL 62704

Mr. Mike Lamastra
Licensing Section 2, Licensing Branch
Division of Fuel Cycle Safety
& Safeguards, NMSS
US Nuclear Regulatory Commission
Washington, D.C. 20555-0001

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PM: 3/13/98 REGION III

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3.1
BT

FACILITY EFFLUENT REPORT

TYPE OF FACILITY:

UF₆ Conversion

LICENSE:

Source Materials No. C-1B-526

Docket No. 40-3392

FACILITY ADDRESS:

AlliedSignal Inc. - Metropolis Works

P. O. Box 430

Metropolis, IL 62960

REPORTING PERIOD:

July 1, 1997 - January 1, 1998

GASEOUS EFFLUENTS:

1. The average release rate for the reporting period = $5.9E^3$ ACFM.
2. The principle radionuclides released are particulate, oxides and fluorides as follows:

Uranium (Nat.)	=	0.082 curies (measured)
Ra ²²⁶	=	$8.5 E^{-6}$ curies (Note 1)
Th ²³⁰	=	$1.05 E^{-4}$ curies (Note 1)

LIQUID EFFLUENTS:

1. The average release rate for the reporting period = 1916 GPM.
2. The principle radionuclides released are as follows:

Uranium (Nat.)	=	0.34 curies (measured)
Ra ²²⁶	=	$1.22 E^{-3}$ curies (measured)
Th ²³⁰	=	$2.5 E^{-4}$ curies (measured)

NOTES 1:

Calculated from measured Th²³⁰ and Ra²²⁶ content of the various types of ore concentrates processed during the reporting period. As the ratio from exit points of these nuclides to uranium is assumed to be the same as in the concentrates, this calculation results in conservative (high) reported quantities.

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