

April 17, 1996

Robert Meschter
Radiation Safety Officer
Advanced Medical Systems, Inc.
1020 London Road
Cleveland, OH 44110

Dear Mr. Meschter:

This is to confirm the telephone conversation between you and Messrs. John Madera and Michael Weber of my staff, on March 7, 1996. During that conversation, we indicated, based on the results of your contract laboratory's analysis of filtered water samples from Tank 880, that it did not appear that discharge of Tank 880 was in violation of 10 CFR 20.2003.

The basis for our position was as follows. On March 4, 1996, you provided us with the results of Lockheed Analytical Service's analysis of water and filter samples from Tank 880 (Attachment 1). These results indicated that the concentration of cobalt-60 (Co-60) in the water did not exceed the limits of 10 CFR Part 20, Appendix B, for releases to the sanitary sewer. The results of the analysis of the top filter indicated that insoluble Co-60 may have been present. We did, however, question the accuracy of the measurement since the error, 1.7 picocuries per liter (pCi/l), reported by Lockheed for this filter exceeded the minimum detectable activity (MDA) of 1.6 pCi/l for the particular measurement. By facsimile dated March 5, 1996 (Attachment 2), Lockheed provided you with the results of a recount of the top filter. It is our understanding that this sample was recounted at your request. These results indicated that there was no detectable, insoluble Co-60 on the filter. The error for this analysis, 0.34 pCi/l, was less than the MDA of 3.7 pCi/l, and is therefore more analytically acceptable. Taking this additional information into consideration, we conclude that discharge of Tank 880 did not violate 10 CFR 20.2003.

Sincerely,

Original signed by
Geoffrey C. Wright, Acting Deputy Director
Division of Nuclear Materials Safety

License No. 34-19089-01
Docket No. 030-16055

See Attached Distribution

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DATE	04/16/96		04/16/96		04/16/96		04/16/96		04/17/96

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Advanced Medical Systems, Inc.

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216-692-3270

FAX(216) 692-3269

FAX MESSAGE

FROM: Bob Meschter

TO: Mike Weger

FAX NUMBER:

DATE: 3-4-96

PAGE 1 OF 5

MESSAGE:

Attached FYI - Sample
Results from Tank 880
we intend to dump this tank
3-7-96

TANK SSO FILTER

LOCKHEED ANALYTICAL SERVICES

RAD DATA REPORT (RAD01)

IEM, Inc.

(PROJECT FAST TAT GAMMA SPEC)

Client Sample ID: W022996-001 TOP

LAL Sample ID: L6539-1

Date Collected: 29-FEB-96

Date Received: 01-MAR-96

Media: WATER

Login Number: L6539

Co-60

GAMMA SPEC LAL-0063_36398

2.3

1.7

1.6

PC1/L

DRAFT

TANK 890 FILTER

LOCKHEED ANALYTICAL SERVICES

RAD DATA REPORT (rad01)

IER, Inc.

(PROJECT FAS: 1A1 GAMMA SPEC)

Client Sample ID: W022996-002 BOTTOM

LAL Sample ID: L6539-2

Date Collected: 29-FEB-96

Date Received: 01-MAR-96

Matrix: WATER

Login Number: L6539

Co-60

GAMMA SPEC LAL-0063_34350

-0.8

2.8

8.0

dCi/L

DRAFT

THM 580 WATER

LOCKHEED ANALYTICAL SERVICES

RAD DATA REPORT (rad01)

LEM, Inc.

(Project FAST TAT GAMMA SPEC)

Client Sample ID: W022004-001 TOP

Date Collected: 29 FEB-96

Matrix: Water

LAL Sample ID: 66539-4

Date Received: 01-MAR-96

Login Number: 66539

Co-60

01-MAR-96 GAMMA SPEC LAL-UD03_34557

3.5

7.6

18.

PCI/L

DRAFT

LOCKHEED ANALYTICAL SERVICES

RAD DATA REPORT (7401)

LEM, Inc.

(P10)PCT FAST TAY GAMMA SPEC

Client Sample ID: W022906-002 BOTTOM

Date Collected: 29-FEB-96

Matrix: Water

LAL Sample ID: L6539-5

Date Received: 01-MAR-96

Login Number: L6539

SI-214
Co-60
TI-206

01-MAR-96 GAMMA SPEC LAL-0063 34357
01-MAR-96 GAMMA SPEC LAL-0063 34357
01-MAR-96 GAMMA SPEC LAL-0063 34357

19.
4.3
8.8

11.
2.8
5.7

15.
4.5
6.5

PCT/L
PCT/L
PCT/L

DRAFT

LOCKHEED MARTIN

Lockheed Analytical Services
975 Kelly Johnson Drive
Las Vegas, NV 89119

(702)361-3955 ext. 289
fax (702)361-3137

FAX TRANSMITTAL COVER

DATE: March 5, 1996

NUMBER OF PAGES (including cover)

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FROM: Karen Germann

TO: Mr. Robert Meschter

PHONE #: (216) 692-3270

FAX #: (216) 692-3269

COMMENTS: Draft data

Bob -

We realized there was a calculation error on the other filter sample (L6539-2) here are the revised results.

The sample L6557-1 is the reanalysis that you requested this morning.

I will be out of the office tomorrow morning. If you have further questions call

Russ Stimmel or Terry Romanko.

Thanks -
Karen

LOCKHEED ANALYTICAL SERVICES

RAD DATA REPORT (rad1)

LEM, Inc.

(Project FAST TAT GAMMA SPEC)

Client Sample ID: W022996-002 BOTTOM

LAL Sample ID: L6539-2

Date Collected: 29-FEB-96

Date Received: 01-MAR-96

Matrix: Water

Login Number: L6539

Ce-60

01-MAR-96 GAMMA SPEC LAL-0063_3435B

-0.3

1.2

3.3

pcf/L

LOCKHEED ANALYTICAL SERVICES

RAD DATA REPORT (r801)

TEM, Inc.

(Project FAST TAT GAMMA SPEC)

Client Sample ID: 6022996-001-TOP

LPL Sample ID: L6557-1

Date Collected: 29-FEB-96

Date Received: 05-MAR-96

Matrix: Water

Login Number: L6557

Co-60

05-MAR-96 GAMMA SPEC 1A1-0063_34477

-0.34

0.34

3.7

PCI/L

DRAFT