NRC FORM 374
(7-94)

U.S. NUCLEAR REGULATORY COMMISSION

MATERIALS LICENSE

Amendment No. 06

Pursuant to the Atomic Energy Act of 1954, as amended, the Energy Reorganization Act of 1974 (Public Law 93-438), and Title 10, Code of Federal Regulations, Chapter I, Parts 30, 31, 32, 33, 34, 35, 36, 39, 40, and 70, and in reliance on statements and representations heretofore made by the licensee, a license is hereby issued authorizing the licensee to receive, acquire, possess, and transfer byproduct, source, and special nuclear material designated below; to use such material for the purpose(s) and at the place(s) designated below; to deliver or transfer such material to persons authorized to receive it in accordance with the regulations of the applicable Part(s). This license shall be deemed to contain the conditions specified in Section 183 of the Atomic Energy Act of 1954, as amended, and is subject to all applicable rules, regulations, and orders of the Nuclear Regulatory Commission now or hereafter in effect and to any conditions specified below.

OFFICIAL RECORD COPY

Licensee	
1. Nucletron Corporation	In accordance with the letter dated May 21, 1997,
2. 7080 Columbia Gateway Drive Columbia, Maryland 21046-2133	3. License Number 19-28772-01 is amended in its entirety to read as follows:
	4. Expiration Date March 31, 2003
	5. Docket or Reference No. 030-32842

6. Byproduct, Source, and/or Special Nuclear Material	7. Chemical and/or Physical Form	8. Maximum Amount that Licensee May Possess at Any One Time Under This License
A. Iridium 192	A. Sealed sources (Byk Mallinckrodt Model CI-L-BV and BV Mallinckrodt Model CI-2)	A. Not applicable
B. Cesium 137	B. Sealed sources (Amersham Model CDC.SP1 and CDC K series)	B. Not applicable
C. Cobalt 60	C. Sealed sources (Amersham Model CDC.SP1)	C. Not applicable

9. Authorized use

A. For possession incident to the installation, maintenance, repair, and source exchange of Nucletron MicroSelectron-HDR and MicroSelectron-PDR remote afterloading devices.
B. For possession incident to the installation, maintenance, repair and source exchange of Nucletron MicroSelectron-LDR and Selectron-LDR remote afterloading devices.
C. For possession incident to the installation, maintenance, repair and source exchange of Nucletron Selectron-HDR remote afterloading devices.

CONDITIONS

10. Licensed material may be used only at temporary job sites of the licensee anywhere in the United States where the U.S. Nuclear Regulatory Commission maintains jurisdiction for regulating the use of licensed material.

11. A. Licensed material shall be used by, or under the supervision of, Hal Archibald, Jim Cowan, Dave Glessner, Charles Hicks, Mark Irvin, Chuck Jones, E.J. Kromhout van der Meer, Brent Loudy, C. Mellink, Chris Scott, Jason Shirdon, M. Slot, Arno Rood, G.J. ten Brinke, Chuck Tow, Larry Vincent, A. Casey Valentine, Alan Taylor, James T. Coyle, David Kuligowski, Ralph E. Shuping, James Wilson, Jeffrey Clay, Bill Riebau, Jack Kinsey, Richard Nusspickel, Keith Truesdell, and Andres Guevara.

B. The Radiation Safety Officer for this license is Ovila J. Dionne, Jr.

ML 10

12. Sealed sources or detector cells containing licensed material shall not be opened or sources removed from source holders or detector cells by the licensee.

13. A. Sealed sources and detector cells containing licensed material shall be tested for leakage and/or contamination at intervals not to exceed six months or at such other intervals as are specified by the certificate of registration referred to in 10 CFR 32.210, not to exceed three years.

B. Notwithstanding Paragraph A of this Condition, sealed sources designed to emit alpha particles shall be tested for leakage and/or contamination at intervals not to exceed three months.

C. In the absence of a certificate from a transferor indicating that a leak test has been made within six months prior to the transfer, a sealed source or detector cell received from another person shall not be put into use until tested.

D. Each sealed source fabricated by the licensee shall be inspected and tested for construction defects, leakage, and contamination prior to any use or transfer as a sealed source.

E. Sealed sources and detector cells need not be leak tested if:

(i) they contain only hydrogen-3; or

(ii) they contain only a radioactive gas; or

(iii) the half-life of the isotope is 30 days or less; or

(iv) they contain not more than 100 microcuries of beta and/or gamma emitting material or not more than 10 microcuries of alpha emitting material; or

(v) they are not designed to emit alpha particles, are in storage, and are not being used. However, when they are removed from storage for use or transfer to another person, and have not been tested within the required leak test interval, they shall be tested before use or transfer. No sealed source or detector cell shall be stored for a period of more than 10 years without being tested for leakage and/or contamination.

F. The test shall be capable of detecting the presence of 0.005 microcurie of radioactive material on the test sample. If the test reveals the presence of 0.005 microcurie or more of removable contamination, a report shall be filed with the U.S. Nuclear Regulatory Commission and the source or detector cell shall be removed immediately from service and decontaminated, repaired, or disposed of in accordance with Commission regulations. The report shall be filed within five days of the date the leak test result is known with the U.S. Nuclear Regulatory Commission, Region I, ATTN: Chief, Nuclear Materials Safety Branch, 475 Allendale Road, King of Prussia, Pennsylvania 19406. The report shall specify the source or detector cell involved, the test results, and corrective action taken.

MATERIALS LICENSE
SUPPLEMENTARY SHEET

License Number
19-28772-01

Docket or Reference Number
030-32842

Amendment No. 06

G. The licensee is authorized to collect leak test samples for analysis by RSO, Inc. Alternatively, tests for leakage and/or contamination may be performed by persons specifically licensed by the Commission or an Agreement State to perform such services.

14. In addition to the possession limits in Item 8, the licensee shall further restrict the possession of licensed material to quantities below the minimum limit specified in 10 CFR 30.35(d), 40.36(b), and 70.25(d) for establishing financial assurance for decommissioning.

15. The licensee is authorized to transport licensed material in accordance with the provisions of 10 CFR Part 71, "Packaging and Transportation of Radioactive Material."

16. Except as specifically provided otherwise in this license, the licensee shall conduct its program in accordance with the statements, representations, and procedures contained in the documents, including any enclosures, listed below. The Nuclear Regulatory Commission's regulations shall govern unless the statements, representations, and procedures in the licensee's application and correspondence are more restrictive than the regulations.

A. Application dated July 3, 1992
B. Letter dated October 12, 1992
C. Letter dated December 2, 1992
D. Letter dated January 12, 1993
E. Letter dated February 24, 1993
F. Letter dated March 1, 1993
G. Letter dated July 11, 1994
H. Letter dated September 21, 1994
I. Letter dated January 4, 1996
J. Letter dated June 17, 1996
K. Letter dated January 13, 1997
L. Facsimile dated February 4, 1997
M. Facsimile dated February 5, 1997
N. Letter dated May 21, 1997

For the U.S. Nuclear Regulatory Commission

Date JUN 20 1997

By ORIGINAL SIGNED BY:
JUDITH A. JOUSTRA
Division of Nuclear Materials Safety
Region I
King of Prussia, Pennsylvania 19406

JUN 20 1997

Mr. Ralph E. Shuping, Sc.D
Regulatory Affairs Manager
Nucletron Corporation
7080 Columbia Gateway Drive
Columbia, Maryland 21046-2133

Dear Mr. Shuping:

This refers to your license amendment request. Enclosed with this letter is the amended license.

Please review the enclosed document carefully and be sure that you understand and fully implement all the conditions incorporated into the amended license. If there are any errors or questions, please notify the U.S. Nuclear Regulatory Commission, Region I Office, Licensing Assistance Team, (610) 337-5093 or 5239, so that we can provide appropriate corrections and answers.

Thank you for your cooperation.

Sincerely,

ORIGINAL SIGNED BY:
JUDITH A. JOUSTRA

Judith A. Joustra
Division of Nuclear Materials Safety

License No. 19-28772-01
Docket No. 030-32842
Control No. 124665

Enclosure:
Amendment No. 06

DOCUMENT NAME: R:\WPS\MLTR\L1928772.01
To receive a copy of this document, indicate in the box: "C" = Copy w/o attach/encl "E" = Copy w/ attach/encl "N" = No copy

OFFICE	DNMS/RI	N	DNMS/RI					
NAME	JJoustra							
DATE	06/16/97		06/ /97		06/ /97		06/ /97	

OFFICIAL RECORD COPY ML 10

Nucletron

Nucletron Corporation
7080 Columbia Gateway Drive
Columbia, MD 21046-2133
410-312-4100
Fax 410-312-4199
http://www.nucletron.com

030-32842

May 21, 1997

Mr. John R. McGrath
Nuclear Materials Safety Branch
U.S. NRC Region 1
475 Allendale Road
King of Prussia, PA 19406-1415

REFERENCE: Amendment Request for NRC Radioactive Materials License No. 19-28772-01

Dear Mr. McGrath:

Nucletron Corporation wishes to Amend its' NRC Radioactive Materials License No.19-28772-01 with the following changes:

Condition No. 11A: Please remove the following name from our License.

Kagan Ertugrul
Perry Koonce

Please add the following names to our License.

Jeffrey Clay
Bill Riebau
Jack Kinsey
Richard Nusspickel
Keith Truesdell
Andres Guevara

Enclosed is a check in the amount of $ 590.00 to cover the cost of amendment fees. Attached also find the training certificates for the additional 6 engineers.

If any additional information is needed or if you have any questions, please contact me directly at 410-312-4103.

Respectfully submitted,

Ralph E. Shuping, Sc.D
Regulatory Affairs Manager

cc: Ovila J. Dionne, Jr.
Radiation Safety Officer

124665

JUN - 9 1997

OFFICIAL RECORD COPY MIL 10

Delft Instruments

Nucletron

Training Certificate

given to:

Jeffrey Clay

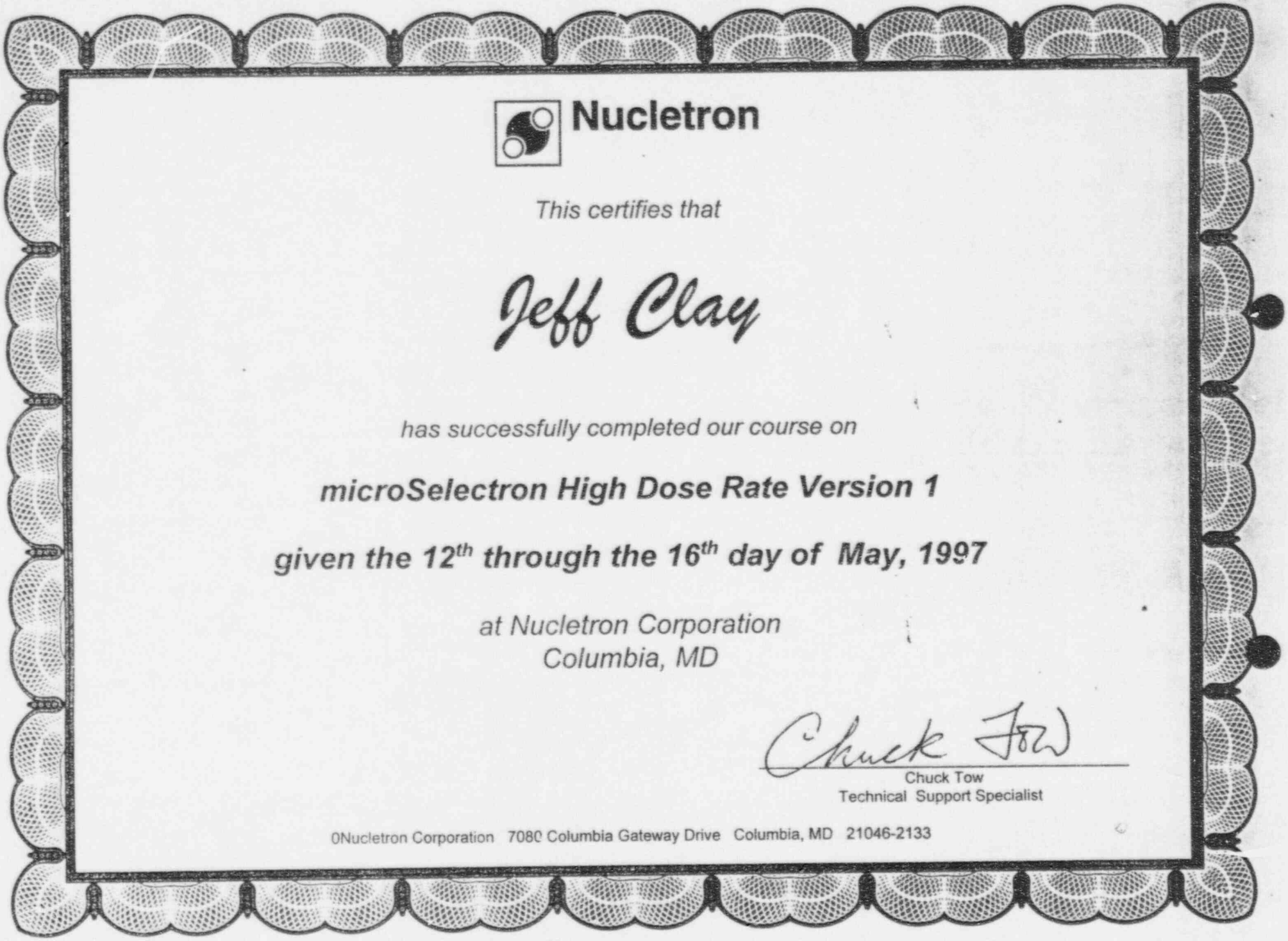
for having completed the following training course:

Radiation Safety Procedures for Source Handlers

Course Date: December 13, 1996

Ralph Shuping, Sc.D.
Instructor/ Regulatory Affairs Manager

Ovila J. Dionne, Jr.,
Radiation Safety Officer



Nucletron

This certifies that

Jeff Clay

has successfully completed our course on

microSelectron High Dose Rate Version 1

given the 12th through the 16th day of May, 1997

at Nucletron Corporation
Columbia, MD

Chuck Tow
Technical Support Specialist

0Nucletron Corporation 7080 Columbia Gateway Drive Columbia, MD 21046-2133

Nucletron

Training Certificate

given to:

Bill Riebau

for having completed the following training course:

Radiation Safety Procedures for Source Handlers

Course Date: May 21, 1997

Ralph Shuping, Sc.D.
Instructor/ Regulatory Affairs Manager

Ovila J. Dionne, Jr.,
Radiation Safety Officer

Nucletron

This certifies that

Bill Riebau

has successfully completed our course on

microSelectron High Dose Rate Version 1

given the 12th through the 16th day of May, 1997

at Nucletron Corporation
Columbia, MD

Chuck Tow
Technical Support Specialist

0Nucletron Corporation 7080 Columbia Gateway Drive Columbia, MD 21046-2133

Nucletron

Training Certificate

given to:

Jack Kinsey

for having completed the following training course:

Radiation Safety Procedures for Source Handlers

Course Date: May 21, 1997

Ralph Shuping, Sc.D.
Instructor/ Regulatory Affairs Manager

Ovila J. Dionne, Jr.,
Radiation Safety Officer

Nucletron

This certifies that

Jack Kinsey

has successfully completed our course on

microSelectron High Dose Rate Version 1

given the 12th through the 16th day of May, 1997

at Nucletron Corporation
Columbia, MD

Chuck Tow
Technical Support Specialist

0Nucletron Corporation 7080 Columbia Gateway Drive Columbia, MD 21046-2133

Nucletron

Training Certificate

given to:

Richard Nusspickel

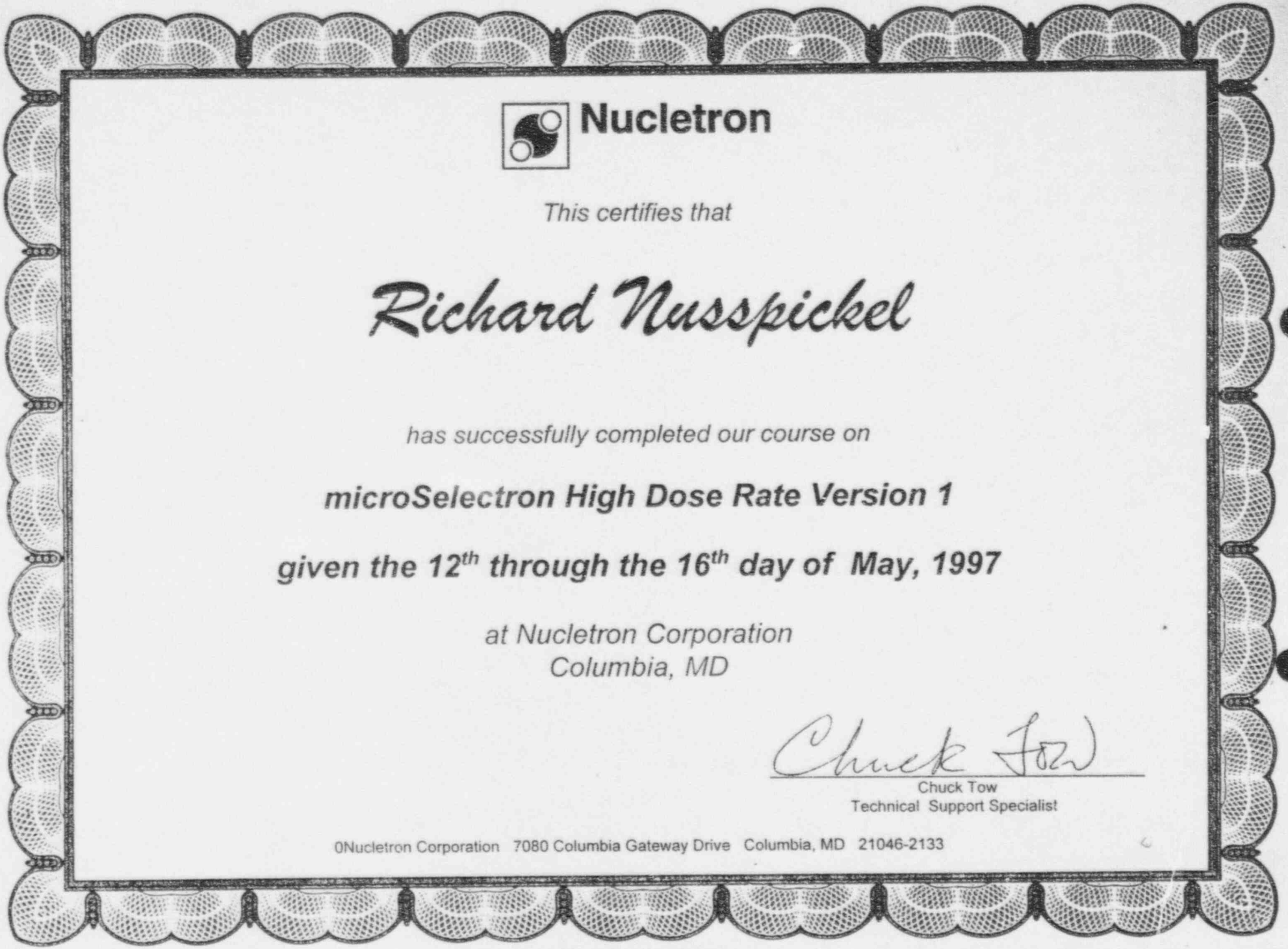
for having completed the following training course:

Radiation Safety Procedures for Source Handlers

Course Date: April 24, 1997

Ralph Shuping, Sc.D.
Instructor/ Regulatory Affairs Manager

Ovila J. Dionne, Jr.,
Radiation Safety Officer



Nucletron

This certifies that

Richard Nusspickel

has successfully completed our course on

microSelectron High Dose Rate Version 1

given the 12th through the 16th day of May, 1997

at Nucletron Corporation
Columbia, MD

Chuck Tow

Chuck Tow
Technical Support Specialist

0Nucletron Corporation 7080 Columbia Gateway Drive Columbia, MD 21046-2133

Nucletron

Training Certificate

given to:

Keith Truesdell

for having completed the following training course:

Radiation Safety Procedures for Source Handlers

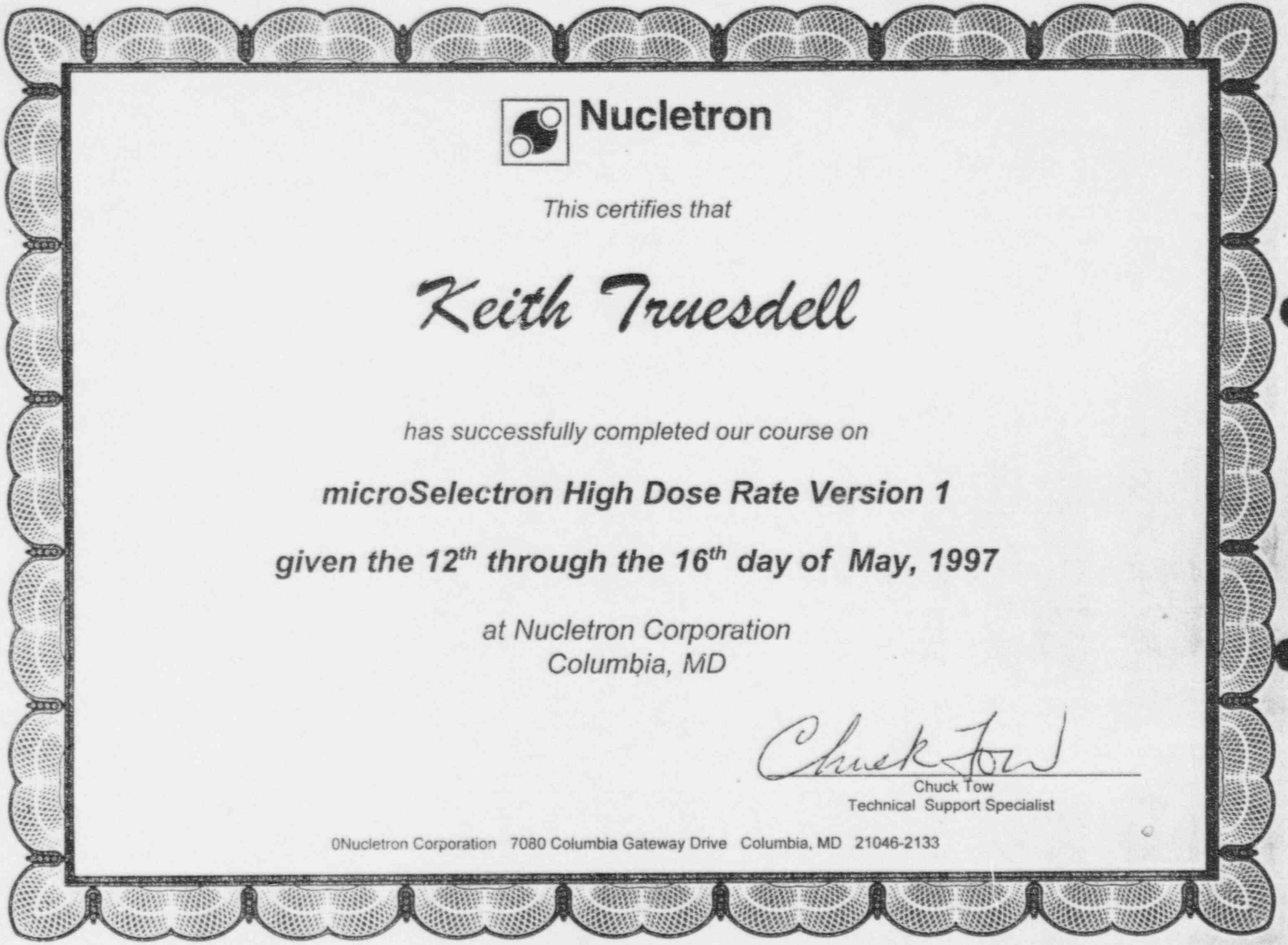
Course Date: December 13, 1996

Ralph E. Shuping

Ralph Shuping, Sc.D.
Instructor/ Regulatory Affairs Manager

Ovila J. Dionne

Ovila J. Dionne, Jr.,
Radiation Safety Officer



Nucletron

This certifies that

Keith Truesdell

has successfully completed our course on

microSelectron High Dose Rate Version 1

given the 12th through the 16th day of May, 1997

at Nucletron Corporation
Columbia, MD

Chuck Tow
Technical Support Specialist

0Nucletron Corporation 7080 Columbia Gateway Drive Columbia, MD 21046-2133

Nucletron

Training Certificate

given to:

Andres Guevara

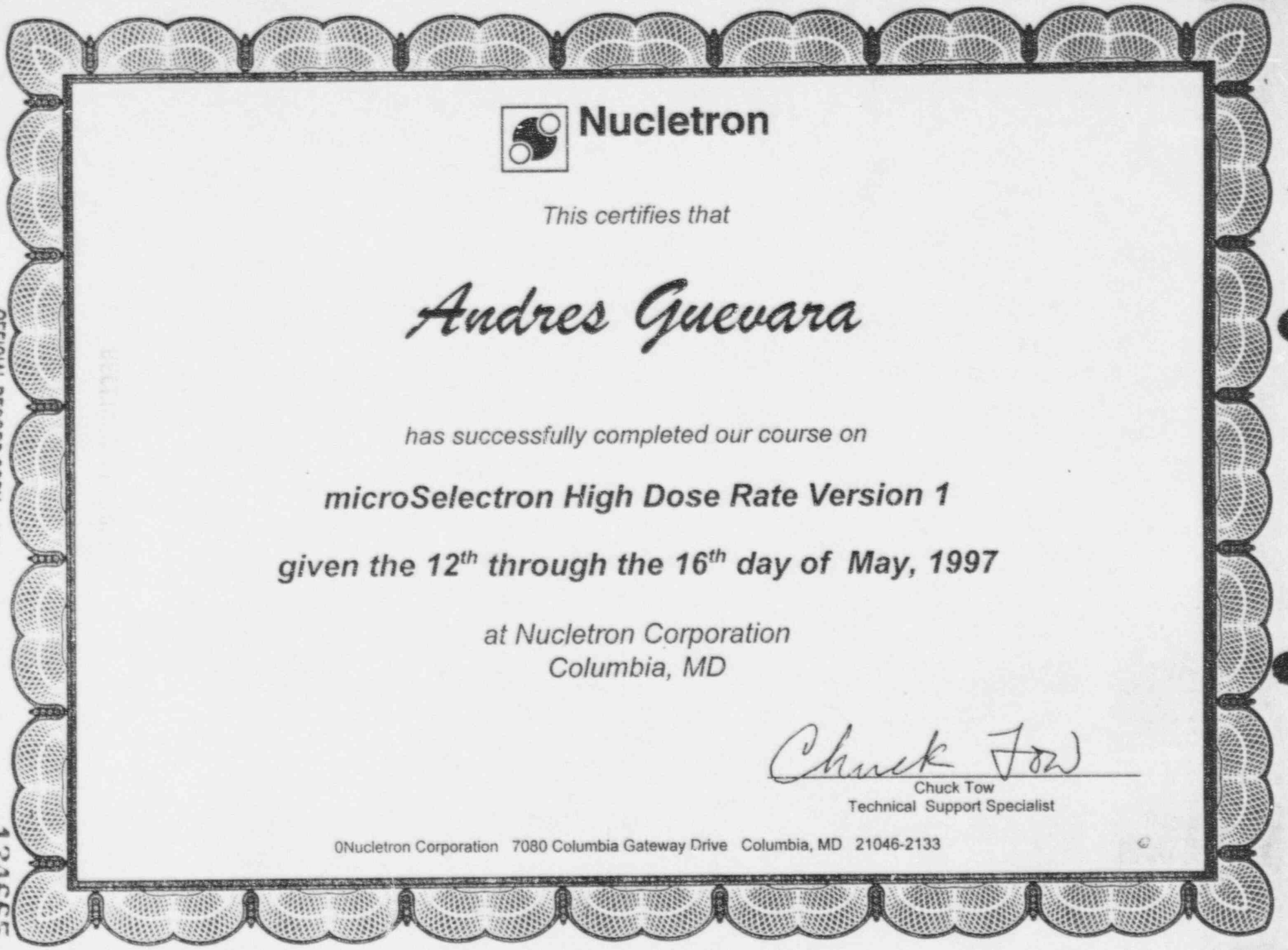
for having completed the following training course:

Radiation Safety Procedures for Source Handlers

Course Date: May 21, 1997

Ralph Shuping, Sc.D.
Instructor/ Regulatory Affairs Manager

Ovila J. Dionne, Jr.,
Radiation Safety Officer



Nucletron

This certifies that

Andres Guevara

has successfully completed our course on

microSelectron High Dose Rate Version 1

given the 12th through the 16th day of May, 1997

at Nucletron Corporation
Columbia, MD

Chuck Tow
Technical Support Specialist

0Nucletron Corporation 7080 Columbia Gateway Drive Columbia, MD 21046-2133

BETWEEN:

License Fee Management Branch, ARM
and
Regional Licensing Sections

(FOR LFMS USE)
INFORMATION FROM LTS

Program Code: 03225
Status Code: O
Fee Category: 3N
Exp. Date: 20030331
Fee Comments: ----------
Decom Fin Assur Reqd: N

LICENSE FEE TRANSMITTAL

A. REGION

1. APPLICATION ATTACHED
Applicant/Licensee: NUCLETRON CORPORTATION
Received Date: 970609
Docket No: 3032842
Control No.: 124665
License No.: 19-28772-01
Action Type: Amendment

2. FEE ATTACHED
Amount: $ 590.00
Check No.: 16876

3. COMMENTS

Signed Brown, R.J.
Date 6/12/97

B. LICENSE FEE MANAGEMENT BRANCH (Check when milestone 03 is entered X)

1. Fee Category and Amount: 3N 590

2. Correct Fee Paid. Application may be processed for:
Amendment ----------
Renewal ----------
License ----------

3. OTHER ----------

Signed ----------
Date ----------

I (97)

Log June 10
Receipt
Check No. 16876
Amount $590
Fee Category 3N
AMS
Fee Rec'd 6/23/97
Verified
BB

Expedite Requested Told RI to proceed with review.
07 for 6/20/97
SB

JUN 17 AM 7:19