

March 19, 1999

Docket No. 040-08976
Control No. 119164

License No. SMB-1527

A. Joseph Nardi
Supervisory Engineer
CBS Corporation
P.O. Box 355
Pittsburgh, PA 15230

Dear Mr. Nardi:

This refers to your request for renewal of your NRC license. Enclosed with this letter is the renewed license. Please review the enclosed document carefully and be sure that you understand all conditions. 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.

Your request for demolition of Buildings 7 and 8 is approved by reference to your letters dated August 25, 1998 and October 15, 1998, which have been incorporated in Condition 12 of your license.

The NRC is required to have your Taxpayer Identification Number in order to make payments (refunds). The self-addressed, stamped NRC Form 531, "Request for Taxpayer Identification Number," is enclosed.

Please be advised that your license expires at the end of the day, in the month, and year stated in the license. Until your license is terminated, you must conduct your program involving byproduct materials in accordance with the conditions of your NRC license, representations made in your license application, and NRC regulations. In particular, note that you must:

1. Operate in accordance with NRC regulations 10 CFR Part 19, "Notices, Instructions and Reports to Workers; Inspections," 10 CFR Part 20, "Standards for Protection Against Radiation," and other applicable regulations.
2. Notify the NRC no later than 30 days after the mailing address on the license changes (no fee is required if the location of byproduct material remains the same).
3. In accordance with 10 CFR 30.36(d), notify the NRC, promptly, in writing, and request termination of the license when you decide to terminate all activities involving materials authorized under the license.

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4. Request and obtain a license Amendment before you:
 - a. order byproduct material in excess of the amount, or radionuclide, or form different than authorized on the license; or
 - B. add or change the areas of use, or address or addresses of use identified in the license application or on the license.
5. Receive written approval from the NRC prior to any change in ownership of your organization, in accordance with 10 CFR 30.34(b).
6. Submit a complete renewal application with proper fee or termination request at least 30 days before the expiration date of your license. You will receive a reminder notice approximately 90 days before the expiration date. Possession of byproduct material after your license expires is a violation of NRC regulations. A license will not normally be renewed, except on a case-by-case basis, in instances where licensed material has never been possessed or used.

In addition, please note that NRC Form 313 requires the applicant, by his/her signature, to verify that the applicant understands that all statements contained in the application are true and correct to the best of the applicant's knowledge. The signatory for the application should be the licensee or a certifying official of the licensee rather than the Radiation Safety Officer or a consultant.

You will be periodically inspected by the NRC. Failure to conduct your program in accordance with NRC regulations, license conditions, and representations made in your license application and supplemental correspondence with NRC will result in enforcement action against you. This could include issuance of a notice of violation, or imposition of a civil penalty, or an order suspending, modifying or revoking your license as specified in the "General Policy and Procedure for NRC Enforcement Actions" (Enforcement Policy), NUREG 1600.

Since serious consequences to employees and the public can result from failure to comply with NRC requirements, prompt and vigorous enforcement actions will be taken when dealing with licensees who do not achieve the necessary meticulous attention to detail and the high standard of compliance which NRC expects of its licensees.

Thank you for your cooperation.

Sincerely,

Original signed by Ronald R. Bellamy

Ronald R. Bellamy, Chief
Decommissioning and Laboratory Branch
Division of Nuclear Materials Safety

A. Nardi
CBS Corporation

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Enclosures:

1. Amendment No. 4
2. NRC Forms 3, 313, and 531
3. Section 206 of the Energy Reorganization Act of 1974
4. NUREG 1600, General Policy and Procedure for NRC Enforcement Actions
(Enforcement Policy)

cc:

Kenneth J. Bird, Cummings-Riter Consultants
Ed Farmer, Office of Congressman William Pascrell
Craig Schmalz, Bloomfield Independent Press
Richard B. Proctor, Township of Bloomfield
Steven Myers, State of New Jersey
Jenny Moon Goodman, State of New Jersey

A. Nardi
CBS Corporation

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OFFICE	DNMS/RI	N	DNMS/RI	N				
NAME	MRoberts <i>mc</i>		RBellamy <i>rb</i>					
DATE	03/19/99		03/19/99		03/ /99		03/ /99	

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Westinghouse Electric Company,
a division of CBS Corporation

Energy Systems

Box 355
Pittsburgh Pennsylvania 15230-0355

RA-99-006

February 16, 1999

U. S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406-1415

Ms 6
L-8

Attention: Mark C. Roberts

Subject: Submittal of additional information to support application for renewal
of License Number SMB-1527 (Docket Number 040-08976).

Reference: Mail Control Number 119164

Dear Mr. Roberts:

In response to our telephone conversation of February 9, 1999, the Westinghouse Electric Company, a division of CBS Corporation, hereby submits the attached additional information to support the pending application for renewal of the SMB-1527 license. This additional information identifies Mr. Kenneth J. Bird as the Radiation Safety Officer for this license. Mr. Bird has completed a 40 hour training session in radiation safety as evidenced by the attached Certificate of Training. Also attached is information regarding the agenda for the course and the qualification of the instructor.

If you have any questions concerning information provided in this letter, please contact me at the above address or by telephone at (412) 374-4652.

Sincerely,

A. Joseph Nardi, Supervisory Engineer
Energy Systems, Regulatory Affairs

/s/f

Attachment

cc: Richard K. Smith, Director
Environmental Remediation for CBS Corporation

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Certificate of Training

This Certifies That

Kenneth J. Bird

has successfully completed the 40-hour course of instruction for

Radiation Safety Officer

March 9-13, 1998

Presented By

CSI-Radiation Safety Training

3827 Farragut Avenue
Kensington, Maryland 20895

in association with

Radiation Service Organization, Inc.
Post Office Box 1526
Laurel, Maryland 20725

Ray Johnson

Raymond Johnson, C.H.P., P.E.
Training Director



CSI-Radiation Safety Training

Radiation Safety Officer

Agenda

Day 1 Monday, March 9, 1998

Instructor: Ray Johnson, C.H.P., P.E., *CSI-Radiation Safety Training*

8:00 Registration and Orientation

8:15 Overview and Course Objectives, Radiation Risk Perceptions

8:45 Qualification Exam

9:15 Atomic Structure and Radioactivity, The Natural and Man Made Radiation Environment, Radon, Units of Radioactive Decay and the Decay Law, Interactions of Radiation with Matter, Radiation Quantities and Units

12:00 Lunch (Provided)

1:00 Biological Effects of Radiation, Risks of Radiation Exposure, Risks to the Pregnant Worker, Radiation Risk Communication

5:00 Radiation Protection Standards, 10 CFR Part 19 and 20

6:00 Adjourn

Day 2 Tuesday, March 10, 1998

Instructor: Ray Johnson

8:00 Radiation Protection Standards, 10 CFR Part 19 and 20 (continued)

Instructor: Tom Johnson, Ph.D., M.S., M.B.A., *CSI-Radiation Safety Training*

9:00 Essential Highlights of 10 CFR Part 21, 30, 31, 33

10:00 Medical Use, 10 CFR Part 35

12:00 Lunch

1:00 External Dosimetry and Shielding

2:30 Internal Dosimetry

4:30 Radioactive Waste Management, Waste Minimization, Mixed Wastes

6:00 Adjourn

Day 3 Wednesday, March 11, 1998

Instructor: Ray Johnson

8:00 Radiation Detection Instruments

Instructors: Ray Johnson, Tom Johnson and David Bisson, RSO, Inc.

10:00 Radiation Instruments Laboratory

12:30 Lunch

Instructor: Ray Johnson

1:30 Radiation Instrument Applications

3:00 Contamination Control and Health Physics Surveys

6:00 Adjourn

Day 4 Thursday, March 12, 1998

Instructor: Ray Johnson

8:00 Radiation Statistics and Quality Assurance

Instructor: Tom Johnson

10:00 Transport, Shipment, and Receipt of Radioactive Materials, Ordering, Receipt, and Opening Procedures.

12:00 Lunch (Provided)

1:00 Transportation (continued)

Instructor: Ray Johnson

2:00 Effective Communications for the Radiation Safety Officer as a Manager and Instructor

6:00 Adjourn

Day 5 Friday, March 13, 1998

Instructor: Tom Johnson

8:00 Preparing for Regulatory Inspections and Program Audits

Instructors: Ray Johnson and Tom Johnson

9:00 Radiation Protection Program Management, Information Resources, License Applications, Emergency Response, and Decommissioning

10:00 Challenges for RSO's,

10:30 Final Exam and Review

12:00 Presentation of Certificates



Raymond H. Johnson, Jr., C.H.P., P.E.

President, Communication Sciences Institute, Inc.
Director, CSI-Radiation Safety Training

- ❖ *B.S., Civil Engineering, (1961) University of Vermont*
- ❖ *M.S., Sanitary Engineering, (1963) Massachusetts Institute of Technology*
- ❖ *Professional Engineering Degree, (1963) Massachusetts Institute of Technology and Harvard University*
- ❖ *Ph.D. Studies, Radiochemistry (1966-1972) Rensselaer Polytechnic Institute*
- ❖ *Johns Hopkins Fellow, Organizational Systems. (1984-1985)*
- ❖ *American Board of Health Physics Certified (1983)*

Experience

- 1984-Pres. President of Communication Sciences Institute, Inc. Provide health physics and risk communication training and consulting to nuclear industry, universities, radiopharmaceutical companies, and professional organizations.
- 1988-Pres. Manager and Contractor to National Institutes of Health for radiation safety audits of 3,000 research laboratories and 2,000 instrument calibrations a year, along with environmental monitoring, hot lab and analytic lab operations, and cyclotron inspections.
- 1990-Pres. President of Key Technology, Inc. a manufacturer and primary laboratory for radon analysis with over 700,000 measurements since 1985. Primary instructor at Rutgers University since 1990 for radon, radiation risks, radiation instruments, and radon risk communication courses.
- 1986-1988 Laboratory Director, RSO, Inc.- Directed analytical programs and QA for samples from N.I.H., Aberdeen Proving Ground, radiopharmaceutical companies, and the nuclear industry.
- 1970-1985 Chief, Radiation Surveillance Branch, EPA, Office of Radiation Programs. Directed studies of radiological quality of US, coordinated 7 Federal agencies for nuclear fallout events, directed regulatory program for ocean dumping, QA officer for 8 years. Head of several US delegations to I.A.E.A and N.E.A. on radioactive waste disposal. ANSI N-13, (1975-1985). Retired PHS Commissioned Officer (0-6) in 1985 with 28 years of service.
- 1963-1970 U.S.P.H.S. - Directed development of radiation monitoring techniques at DOE National Labs, nuclear plants, and shipyards in the US and Chalk River Nuclear Laboratory in Canada.

Health Physics and Professional Activities

Health Physics Society (HPS) plenary member since 1966; Treasurer (1995-present); Secretary (1992-1995); Executive Cmte. (1992-present); Chair, Finance Cmte. (1996-present); RSO Section Steering Cmte. (1997); Co-Chair Local Arrangements Cmte. Annual Meeting in DC (1991); Public Info. Cmte. (1985-1988); PEP, CEL and AAHP instructor; Journal reviewer; President, Radon Section (1995-1996). Baltimore-Washington Chapter: President (1990-1991) and Honorary Life Member; Newsletter Editor (1983-present); Public Info. Chair (1983-1991). New England Chapter: Newsletter Editor, Board of Directors, Education Chair (1968-1972). President, American Association of Radon Scientists and Technologists (1995-present); Charter Member, Board of Directors; Newsletter Editor (1990-1993). Member ANS (1983-present); Public Info. Chair, DC Section (1983-1991). Member of Sigma Xi (1966-present); Society for Risk Analysis (1984-present). Studied H.P. communication styles and presented Myers-Briggs seminars to over 1400 H.P.s since 1984. Professional Engineer, 1965.

Publications

Authored over 225 books, articles, professional papers, and presentations on radiation protection. Author of monthly column, "Insights in Communication" HPS Newsletter 1984 - 1989 and 1994 - present.

Thomas E. Johnson, Ph.D, M.S., M.B.A.

Health Physicist, CSI - Radiation Safety Training
Assistant Supervisor, National Institute of Health Radiation Safety Contract

- ❖ *Ph.D., Health Physics, (1997) Purdue University*
- ❖ *M.S., Environmental Engineering, (1993) Northwestern University*
- ❖ *M.B.A., Operations and Finance, (1991) University of Illinois*
- ❖ *B.S., Industrial Technology, (1989) Southern Illinois University*
- ❖ *E.L.T., Radiation and Chemistry, (1984) U.S. Naval Nuclear Power School*
- ❖ *American Board of Health Physics, Part I Certification (1996)*

Experience

- 1997 - Pres. Health Physicist, CSI - Radiation Safety Training. Provide health physics consulting and training to hospitals, universities, and nuclear industry.
- 1994 - 1997 Teaching Assistant, Purdue University. Lecturer in health physics instructional laboratories and classroom.
- 1994 - Pres. Commissioned Officer, United States Air Force Reserves Biomedical Corps Medical Physicist. Provide medical physics support to hospital.
- 1994 & 1995 Health Physicist, Commonwealth Edison Company. Audited health physics program, authored procedures and provided technical justifications.
- 1993 - 1994 Teaching Assistant, Northwestern University. Lecturer in health physics and industrial hygiene instructional laboratories and classroom.
- 1993 Health Physicist and Industrial hygienist, Dow Chemical Company. Study Director for health physics and industrial hygiene projects.
- 1992 - 1993 Engineer, Northern Indiana Public Service Company. Engineering manager of overhaul and repair projects on 150 to 500 MW power plants.
- 1990 - 1992 Pressure Vessel Inspector, Chubb Group of Insurance Companies. ASME licensed boiler and pressure vessel inspector.
- 1984 - 1990 Engineering Laboratory Technician, U.S. Navy. Radiological controls and chemistry department supervisor for submarine reactor.

Publications

- Cember, H.; Johnson, T. E. Solutions to Problems in Health Physics. New York: McGraw Hill Companies, Inc. In press.
- Johnson, T.E. The Potential Use of Human Alpha-Keratin as a Measure of Gamma Ray Exposure. School of Health Sciences: Purdue University. 1997.
- Johnson, T.E. Operational Decision Levels for Skin Contamination. Radiation Protection Management. 13:58-64; 1996..
- Crim, E.A.; Johnson, T.E. Evaluation of the Concentrations of ^{14}C and ^3H in Stack Gas, Water, and Ash Effluents Following the Incineration of Radioactive Wastes containing ^{14}C and ^3H . Health Physics.66:6, WPM-E4; 1994.
- Johnson, T.E. Emergency Response Plan for Hazardous Materials. MINSY, Technical Publications Division: U.S. Navy. 1989.

TELEPHONE CONVERSATION RECORD	Date: 2/9/99	Time: 5:00
Mail Control No.: 119164	License No.: SMB-1527	Docket No.: 040-08976
Person Called: A. Joseph Nardi	Organization: Westinghouse (CBS)	Telephone Number: 412 374-4652
Person Calling: Mark Roberts		
Subject: New RSO for Westinghouse (CBS) Bloomfield license		
<p>Summary: I spoke with Mr. Nardi regarding the RSO for the facility. Kenneth Bird was designated as the RSO for the facility and appeared to be a knowledgeable and qualified individual. I asked Mr. Nardi to supply documentation of his qualifications. Mr. Nardi indicated that he would submit the training documentation from the RSO course that Mr. Bird had attended.</p>		
Action Required/Taken: Mr. Nardi will send information on qualifications of Mr. Byrd		
Signature: <i>Mark Roberts</i>	Date: 2-9-99	

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CBS CORPORATION
11 STANWIX STREET
PITTSBURGH, PENNSYLVANIA 15222-1384

October 15, 1998

Mr. Mark Roberts
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

RE: Protection of Building 7 Excavations
Former Westinghouse Lamp Manufacturing Plant
Bloomfield, New Jersey
License No. SMB-1527

Dear Mr. Roberts:

This letter is follow-up to my letter dated August 25, 1998 to you requesting release of Buildings 7 and 8 for demolition at the subject facility. One concern you verbally expressed to CBS representatives was the availability of future access to the soils in the existing Building 7 excavations. Based upon discussions with several demolition firms, CBS has developed a plan to allow future access to the excavations after demolition. First, the excavations will be mapped and located. The second step will be to line the excavations with plastic sheeting and cover the excavations with steel plates. The steel plates will be fastened to the existing concrete floor to minimize movement during demolition. After demolition, debris covering the plates will be removed to expose the plates. The steel plates will then be removed. Any debris on the plastic sheeting and the plastic sheeting will be removed. Surface water will be diverted away from the trenches. The excavations will be covered to provide for safety and protection from the weather, and secured to minimize unauthorized access.

CBS believes that these procedures address NRC's objective of allowing access to the trenches after demolition. In closing, CBS appreciates your continuing efforts to help us resolve the remaining issues at the facility. Please call either of us if you have any questions.

Sincerely,

Richard K. Smith
Director,
Environmental Remediation

Kenneth J. Bird
Project Engineer/Consultant

cc: Anthony Dimitridis, NRC
Richard Proctor, Bloomfield Township, Environmental Services
Doug Spicuzza, Cummings/Riter Consultants, Inc.
Stephen Myers, NJDEP



CBS CORPORATION
11 STANWIX STREET
PITTSBURGH, PENNSYLVANIA 15222-1384

August 25, 1998

Mr. Mark Roberts
U.S. Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406

RE: Request to Demolish Buildings 7 and 8
Former Westinghouse Lamp Manufacturing Plant
Bloomfield, New Jersey
License No. SMB-1527

Dear Mr. Roberts:

This letter is to confirm recent telephone discussions between you and CBS Corporation representatives concerning findings of your April 1998 clearance survey of Buildings 7 and 8 at the subject facility. We understand that the survey of the buildings' interiors indicated that the radiological levels are within the acceptable range for unrestricted use. This finding confirms the survey data we previously provided the U.S. Nuclear Regulatory Commission (NRC). The survey of the soil beneath Building 7 also confirms our data. The soil is addressed by the previously submitted *Dose Assessment* prepared by SEG on our behalf.

Based upon your findings CBS is requesting the NRC's concurrence that we may proceed with the demolition of Buildings 7 and 8. This would complete the demolition of all buildings at the site. As you are aware, the remaining buildings are a continuing and increasing safety and liability concern. The building interiors are unlit, have floor holes from the asbestos removal, exposed pipes and wires from unauthorized salvaging and have been subjected to vandalism. We have had recent complaints from the township relative to unstable broken windows and conditions around the buildings.

CBS is prepared to provide access to the soil beneath Building 7 after the demolition. Working with the demolition firm, CBS will identify and protect the trenches in a manner such that these areas would be accessible in the future.

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AUG 16 1998

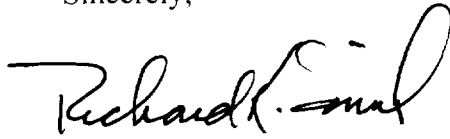
Mr. Mark Roberts

August 25, 1998

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In closing, CBS appreciates your continuing efforts to help us resolve the remaining issues at the facility. Please call either of us if you have any questions.

Sincerely,



Richard K. Smith
Director,
Environmental Remediation



Kenneth J. Bird
Project Engineer/Consultant

cc: Richard Proctor, Bloomfield Township, Environmental Services
Doug Spicuzza, Cummings/Riter Consultants, Inc.
Stephen Myers, NJDEP



**Westinghouse
Electric Corporation**

11 Stanwix Street
Pittsburgh Pennsylvania 15222-1384

March 2, 1994

**Mark C. Roberts, CHP
Health Physicist
U. S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406**

**Re: Transmittal, Radiological Data on Groundwater Samples, Former Lamp Plant,
Bloomfield, New Jersey**

Dear Mr. Roberts:

In response to your request, enclosed are the radiological data developed from analysis of groundwater samples collected at the former Westinghouse Electric Corporation (Westinghouse) lamp plant in Bloomfield, New Jersey. These data were generated in the course of Westinghouse's ongoing site investigation and restoration under the New Jersey Industrial Site Rehabilitation Act (ISRA) (formerly the Environmental Responsibility Cleanup Act [ECRA] program.

The following are included in this submittal:

- Table 1 provides construction details (including well elevations and the communication depth intervals) of the ten groundwater monitoring wells from which samples were collected.
- Table 2 presents the analytical results for the ten samples collected by Westinghouse Environmental and Geotechnical Services, Inc. (WEGS) in May 1990 and for the one sample collected by Cummings-Riter Consultants, Inc. (CRC) in July 1993.
- Table 3 describes the discrete zones from which samples were retrieved from the four on-site production wells.
- Table 4 presents the analytical results for nine samples collected from the production wells by CRC in July 1993.

MAR 12 1994

Mark C. Roberts, CHP

March 2, 1994

Page 2

- Figure 1 is a site plan showing the locations of the sampled wells and other pertinent site features (e.g., building locations, surface topography).

We trust that this information satisfies your requirements at this time. If you have questions regarding this submittal, please do not hesitate to contact us.

Very truly yours,



Timothy R. Basilone
Manager, Environmental Remediation
Law and Environmental Affairs

TRB:

Enclosures

cc: C. W. Bickerstaff

TABLE 1
SUMMARY OF CONSTRUCTION DETAILS
MONITORING WELLS

WELL	GROUND SURFACE ELEVATION^(a)	TOP PROTECTIVE CASING ELEVATION^(a)	TOP RISER/ INNER CASING ELEVATION^(a)	WELL RISER/SCREEN^(b)	TOTAL WELL DEPTH^(c)	COMMUNICATION INTERVAL DEPTH^(c)
CC-1	158.78	160.58	160.58	Open-Bore	57	18-57
CC-2	159.90	159.50	159.50	Open-Bore	72	17-72
CC-3	149.62	151.12	151.12	Open-Bore	61	18-61
CC-4	142.88	144.59	144.59	Open-Bore	100	19-100
CC-5A	157.44	158.85	158.64	PVC	38	18-38
CC-5S	157.50	159.81	159.81	Open-Bore	70	32-70
CC-5D	157.48	159.60	159.60	Open-Bore	130	80-130
BW-1A	140.33	140.35	139.92	PVC	28	8-28
BW-1S	140.24	140.28	140.28	Open-Bore	70	30-70
BW-1D	140.22	140.26	140.26	Open-Bore	130	80-130

- a. Elevations measured in feet above mean sea level.
b. PVC = polyvinyl chloride.
c. Depth in feet below ground surface.

TABLE 2
RADIOLOGICAL DATA
MONITORING WELL SAMPLES

	CC-1	CC-2	CC-3		CC-4	CC-5A	CC-5S	CC-5D	BW-1A	BW-1S	BW-1D
	5/90 Sampled by: WEGS ^(a)	5/90 WEGS	5/90 WEGS	7/93 CRC ^(b)	5/90 WEGS	5/90 WEGS	5/90 WEGS	5/90 WEGS	5/90 WEGS	5/90 WEGS	5/90 WEGS
Radiochemistry (pCi/l)^(c)											
Gross Alpha	5.0±3.0	4.0±3.0	37±11	8.3±5.8	5.0±3.0	3.0±2.0	<2.0	3.0±2.0	<2.0	3.0±2.0	<2.0
Gross Beta	10±5.0	5.0±3.0	92±14	22±5.0	7.0±5.0	18±6.0	8.0±3.0	4.0±3.0	5.0±3.0	5.0±3.0	14±3.0
Gamma	ND ^(d)	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND
Radium 226	<0.6	<0.6	<0.6	0.94±0.11	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Radium 228	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Thorium 232	<0.6	<0.6	<0.6	NA	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Uranium 234	<0.6	<0.6	<0.6	NA	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Uranium 235	<0.6	<0.6	<0.6	NA	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Uranium 238	<0.6	<0.6	<0.6	NA	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6	<0.6
Uranium (total)	0.007	0.006	<0.001	21±3.0 ^(e)	<0.001	0.011	<0.001	0.004	0.004	0.003	<0.001

a. "WEGS" is Westinghouse Environmental and Geotechnical Services, Inc.

b. "CRC" is Cummings/Riter Consultants, Inc.

c. "pCi/l" is pico curies per liter.

d. "ND" indicates the parameter was analyzed but was not present above quantitation limits.

e. This result is reported in micrograms per liter.

TABLE 3
SUMMARY OF PRODUCTION WELL
SAMPLING ZONES

WELL	ZONE	SAMPLE INTERVAL DEPTH (feet)	SAMPLE INTERVAL ELEVATION^(a)
P-1	1	WL ^(b) -66.4	144.17/72.77
P-1	3A	115.0-145.4	29.17/-1.33
P-1	7	400.0-TD ^(c)	-255.83/-357.83
P-2	3	175.0-210.4	-16.59/-51.99
P-2	6	320.0-355.4	-161.59/-196.99
P-3	2	76.0-106.4	65.56/35.16
P-3	7	310.0-340.4	-168.44/-198.84
P-4	3	156.0-185.4	5.59/-23.81
P-4	7	324.0-353.4	-162.41/-191.81

- a. Elevation in feet above mean sea level.
b. WL - indicates water level.
c. TD - indicates total well depth.

TABLE 4
RADIOLOGICAL DATA
PRODUCTION WELL ZONES

	P-1 Zone 1	P-1 Zone 3A	P-1 Zone 7	P-2 Zone 3	P-2 Zone 6	P-3 Zone 2	P-3 Zone 7	P-4 Zone 3	P-4 Zone 7
Date Sampled ^(a) :	7/20/93	7/21/93	7/23/93	7/15/93	7/15/93	7/19/93	7/20/93	7/13/93	7/13/93
Radiochemistry(pCi/l)^(b)									
Gross Alpha	<3.0	<3.0	<3.0	16±7.0	13±7.0	<5.0	5.3±4.2	<8.0	<7.0
Gross Beta	8.6±3.7	6.1±3.5	3.9±2.3	12±3.0	12±4.0	5.2±2.7	4.8±2.6	<6.0	6.5±4.0
Radium 226	0.81±0.1	0.2±0.11	0.76±0.15	0.23±0.12	0.96±0.17	0.5±0.11	0.7±0.1	0.25±0.12	0.6±0.17
Radium 228	<0.9	<0.9	<2.0	<0.9	1.0±0.7	<1.0	<0.7	<1.0	<1.0
Uranium (total) ^(c)	1.2±0.2	1.6±0.2	2.1±0.3	8.7±1.3	11±2.0	1.6±0.2	4.3±0.6	1.7±0.3	5.7±0.9

- a. All groundwater samples collected by Cummings/Riter Consultants, Inc.
b. "pCi/l" is picocuries per liter.
c. Uranium is reported in micrograms per liter (µg/l).

FEB - 3 1994

Docket No. 040-08976
License No. SMB-1527
Control No. 119164

Westinghouse Electric Corp.
ATTN: C. W. Bickerstaff
Manager
6 Gateway Center
Pittsburgh, Pennsylvania 15222

Dear Mr. Bickerstaff:

Subject: LICENSE RENEWAL APPLICATION

This is to acknowledge receipt of your application for renewal of material(s) license identified above. Your application is deemed timely filed, and accordingly, the license will not expire until final action has been taken by this office.

Any correspondence regarding the renewal application should reference the control number specified above.

Sincerely,

Original Signed By:
Sheryl Villar
Sheryl Villar, Chief
Licensing Assistance Section
Division of Radiation Safety
and Safeguards

DRSS:RI
BROWN
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January 24, 1994

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Westinghouse
Electric Corporation

Westinghouse Building
Gateway Center
Pittsburgh Pennsylvania 15222

December 21, 1993

U. S. Nuclear Regulatory Commission, Region I
475 Allendale Road
King of Prussia, PA 19406
Attention: Regional Administrator

RE: License No. SMB-1527
Expiration Date: 02/28/94
Program Code: 11300
Request for Source Material License Extension

Dear Sir/Madam:

Westinghouse Electric Corporation hereby requests that our Material License SMB-1527 for the Bloomfield, NJ facility be extended to November 30, 1994. This license extension is necessary to complete the work associated with the site clearance activities under NUREG/CR-5849, "Manual for Conducting Radiological Surveys in Support of License Termination."

If you have any questions concerning this request, please contact me.

Sincerely,

C. W. Bickerstaff, Manager
Industrial Hygiene and Material Transportation
and Radiation Safety Officer
Environmental Affairs

cc: A. J. Nardi - Monroeville, PA (Energy Center)
A. T. Sabo - Monroeville, PA (Energy Center)
B. Bowman - 1539 Westinghouse Building
J. W. Fisch - 1541 Westinghouse Building
R. E. Wills, Jr. - 2100 Westinghouse Building

RECEIVED BY LEVER	
Date	1/31/94
Log	Jan 9
By	B
Date Cont'd	1/31/94

NOT RECORDED
In Decommissioning Status
Subject to full cost review

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