

LICENSEE: WESTINGHOUSE ELECTRIC CORP REPORT NO. 040-08976/90-001

ADDRESS: P.O. BOX 355
PITTSBURGH PA 15230

*Westinghouse
Box 127
Bloomfield NJ
07003*

LICENSEE CONTACT: WAYNE BICKERSTAFF TELEPHONE NO. 412-374-4672

LICENSE NUMBER	DOCKET NUMBER	CATEGORY	PRIORITY	PROGRAM CODE
<u>SMB-1527</u>	<u>040-08976</u>			

INSPECTION DATE (S) OCTOBER 24, 1990

TYPE OF INSPECTION

LOCATION(S) BLOOMFIELD NJ

- SPECIAL
- ANNOUNCED
- DAYSHIFT
- ROUTINE
- UNANNOUNCED
- BACKSHIFT

SUMMARY OF FINDINGS AND ACTION

- NO NONCOMPLIANCE, 591
- NO NONCOMPLIANCE, LETTER
- NONCOMPLIANCE, 591
- NONCOMPLIANCE, LETTER
- ACTION ON PREVIOUS NONCOMPLIANCE, APPENDIX B
- SUPPLEMENTAL INFORMATION, APPENDIX C

PERSONS CONTACTED (Name, Title)

- Wayne Bickerstaff, RSO (W)
- * Lee Booth, Canberra RMC, HP manager
- Wade Adams, ORAU HP
- Phyllis Cotten, ORAU HP
- David Gibson, ORAU HP Tech
- Robert Maddox, HP Tech, Canberra
- * Lee Young, SEA on site
- * Bobby Walters, SEA Decan foreman
- * Joe Farrell, (W) Bldg Mgt. Plant supervisor
- Walt Tomlinson, Canberra RMC HP Tech

* attended exit meeting

Mark Sabets 10-24-90
Inspector Signature, Date

Inspector Signature, Date

APPROVED

Signature, Date

* support of ORAU for site assessment
* send new form 3

	RESULTS
1. ORGANIZATION	(C) NC
a. Describe the management structure. <i>VP of Env. Affairs Saw Pitts</i> <i>mgr. Jack Fisch - Remediation</i> <i>Wayne Bickershoff - Environmental Affairs</i>	(C) NC <i>Transportation HP Industrial Hyg.</i>
b. Describe the radiation protection organization. <i>Wayne Bickershoff - also - oversees project</i> <i>Lee Booth @ Contractor to Westinghouse</i> <i>confirms S&E H+S program</i> <i>confirmatory HP + post remediation surveys.</i>	(C) NC
c. Individuals identified in the license as being responsible for the programs still hold these positions.	(C) NC
d. Radiation Safety Committee operates as required.	(C) NC (NA) NI
1. meeting frequency: _____	
2. records maintained	y/n/na/ni
3. records reviewed by inspector for period _____ to _____	
4. required persons in attendance	y/n/na/ni
e. Management control programs conducted as required.	C NC (NA) NI
1. records maintained	y/n/na/ni
2. Describe scope, frequency, etc.	

Comments

	RESULTS
2. <u>SCOPE OF LICENSED ACTIVITIES</u>	(C) NC
a. Describe the types of current activities.	(C) NC
Decontamination + Decommissioning of mixed U+Pu contaminated site on a 10 ⁶ ft ² bldg Low level fixed contamination - scabbing on contaminated	
b. Describe the current workload in terms of number of workers, quantities of radioactive material used each week/month/year, frequency of use, other appropriate information.	
Decontamination + Decommissioning project 2-3 Canberra 8-10 SEG contractors.	
c. Describe any changes since the last inspection, and any which may be planned.	
Decommissioning expected to be completed early 1991.	

Comments

- Thorium - tungsten for light bulbs filaments
 - MED programs
- } Historical surveys.

Old license - North American - Phillips

	RESULTS			
3. <u>TRAINING AND INSTRUCTIONS TO EMPLOYEES</u>	(C)	NC		
a. Instruction to all persons working in a restricted area (19.12).	(C)	NC		
b. Additional required training for users and other specified workers.	(C)	NC	NA	NI
1. approved training program				y/n/na/ni
2. training provided by <u>SEG site mgt</u>				y/n/na/ni
3. users complete on-the-job training	(y)	n	na	ni
4. tests are given				y/n/na/ni
a. written				y/n/na/ni
b. oral				y/n/na/ni
c. practical				y/n/na/ni
d. records of tests maintained				y/n/na/ni
e. deficiencies noted				y/n/na/ni
5. test results reviewed by NRC inspector for period _____ to _____				y/n/na/ni
c. Periodic training is implemented as required.	C	NC	NA	NI
1. records of retraining maintained				y/n/na/ni
2. Describe frequency and scope of periodic training				
d. Employees interviewed appeared familiar with safe handling practices and other requirements.	C	NC	NA	NI

Comments

Tailgate safety mtgs - both.

~~6-18-90~~

4-20-90

SEG training - (C) SEG

↓
10-24-90

Special training for unusual projects

- Elevator Motor D⁵⁰⁰ + reassemble
- Survey on chimney from inside

		RESULTS	
4.	<u>MATERIALS</u>	(C)	NC
a.	Radioactive material as authorized by license.	(C)	NC
	1. type and quantity authorized	(y/n)	
	2. inventory records maintained	y/n	(na)/ni
	3. inventory records reviewed for period _____ to _____		
b.	Control of source material (Part 40) and special nuclear material (Part 70) as required.	C	NC (NA) NI
	1. transfers in accordance with 40.51/70.42, 70.54	y/n	(na)/ni
	2. records and inventory required by 40.61/70.51	y/n	(na)/ni
	3. reports in accordance with 40.64/70.53, 70.54	y/n	(na)/ni

*Estimates
for license
purpos.*

Comments

	RESULTS	
5. FACILITIES MAINTAINED AS DESCRIBED IN APPLICATION	(C) NC	
a. postings and labelings as required	(C) NC	
1. 20.203(b) radiation area	y/n/(na)/ni	
2. 20.203(d) airborne radiation area	y/n/(na)/ni	— PRN basement floor scrubbing
3. 20.203(e) use or storage areas posted with "Caution - Radioactive Material"	y/n/(na)/ni	
4. 20.203(f) containers and devices properly labeled	y/n/(na)/ni	
5. 19.11(a)(b) posting of documents	y/n/(na)/ni	
6. 19.11(c) posting of NRC-3	y/n/(na)/ni	
7. 20.203(c) high radiation areas	y/n/(na)/ni	
b. Security of licensed material is maintained.	(C) NC	
1. locked in device cabinet or room	y/n/(na)/ni	> 24-hour security
2. secured to prevent unauthorized removal from an unrestricted area	y/n/(na)/ni	
3. devices and materials secured at field location	y/n/(na)/ni	
c. High Radiation Area operated as required.	C NC (NA) NI	
1. posted as required by 20.203(c)(1)		yes/no
2. interlocked as required by 20.203(c)(2)(i)		yes/no
3. entrance controlled in accordance with 20.203(c)(2)		yes/no
4. exit controlled in accordance with 20.203(c)(3)		yes/no
5. surveillance or locked to prevent unauthorized entry as required by 20.203(c)(4)		yes/no
6. visible and audible signals operate correctly to warn of the presence of radiation		yes/no
7. alarm tested at required intervals		yes/no
8. records of alarm system test maintained		yes/no
9. exposure devices and storage containers meet radiation level limits of 20.203		yes/no

Comments

	RESULTS			
<u>7. RECEIPT AND TRANSFER OF MATERIALS</u>	C	NC	<u>NA</u>	NI
a. Procedures for picking up, receiving, and opening of packages performed as required by 20.205.	C	NC	<u>NA</u>	NI
1. written procedures available			y/n/na/ni	
2. procedures approved in application			y/n/na/ni	
3. survey of packages when received			y/n/na/ni	
4. 20.401 records of survey of packages			y/n/na/ni	
5. 20.401 records of receipt of packages			y/n/na/ni	
b. Licensed material transferred as required.	<u>C</u>	NC	NA	NI
1. 30.41 verification of recipient's license			<u>y/n/na/ni</u>	
2. 20.401, 30.51 records of transfer maintained			<u>y/n/na/ni</u>	
3. Licensee makes shipments of radioactive materials			<u>yes/no</u>	
a. delivered by common carrier			<u>yes/no</u>	
b. transported in licensee's own vehicle as a private carrier.			yes/ <u>no</u>	

*IF ABOVE IS ANSWERED "YES", COMPLETE 7.A TRANSPORTATION

COMMENTS

TO SEC - Oak Ridge.

- Estimates based on thumb rules
- Some ^{activity estimate} based on sample results & from ~~the~~ representative aliquots.

Hittman
Mettler
/ as
Exclusive use

		RESULTS			
7.A. TRANSPORTATION		C	NC	NA	NI
1.	Are authorized packages used		173.415-416	yes/no	
2.	Types of packages used (for example, DOT-7A)		173.415		
3.	Performance test records on file		173.416(a)	yes/no	
4.	Licensee aware of 6/30/85 cutoff on use () certified		173.416(b)	yes/no	
5.	NRC COC's on file		71.12(c)(1)	yes/no	
6.	Registered with NRC as user		71.12(c)(3)	yes/no	
7.	Documented NRC-approved Q/A program? NRC Q/A Approval number _____		71.12(b)	yes/no	
8.	Special Form Material Performance test records available for each source design		173.476(a)	yes/no/na	
9.	packages labeled as required		172.403 (a-f)	yes/no	
	a. Excepted				
	b. White I				
	c. Yellow II				
	d. Yellow III				
10.	Surveys performed to select correct label category and compliance with radiation limits		175.475(i)	yes/no	
11.	Packages marked as required with		172.300-310	yes/no	
	a. shipping name			yes/no	
	b. Spec No.				
	c. Certificate of Compliance (COC) No. etc.				
12.	Shipping papers are prepared for each shipment		172.200	yes/no	
13.	Shipping papers contain required information		172.203(d)	yes/no	
14.	For private carrier shipments:				
	a. vehicles placarded as required		172.500,504	yes/no	
	b. cargo blocked, braced, tied down in vehicle		177.842(d)	yes/no	
	c. any incidents reported to DOT		171.15-16	yes/no	
15.	Licensee carries shipping papers that are readily accessible when transporting radioactive material				NA

Comments

INNER PACKS

37 ft³48 ft³96 ft³

→ placed in Sealed container
S.T.L.

LSA (strong/light)

RESULTS

8. PERSONNEL MONITORING

C NC NA NI

a. Personnel dosimetry assigned and worn as required.

C NC NA NI

1. whole-body dosimeter used

y n na ni

a. film/DRO _____ TLD

b. exchange frequency: Q

c. supplier Laudauer

d. supplier NVLAP accredited 10 CFR 20.202

y n na ni

2. extremity dosimetry used

y n na ni

3. workers observed wearing required dosimetry

y n na ni

b. Personnel dosimetry reports maintained as required

C NC NA NI

1. records reviewed by management frequency:

y/n/na/ni

Lee Young + SEC Mgmt

2. NRC inspector reviewed personnel monitoring

records from 7-20-89 to 6-17-90

y n na ni

a. whole body quarterly dose: typical m max 30

max

b. extremity quarterly dose: typical _____ max _____

max

3. Forms NRC-4, NRC-5 or equivalent records completed

y n na ni

SEC

4. Termination and annual reports to individuals and NRC, as required

y/n/na/ni

c. Formal ALARA program is implemented

C NC NA NI

Comments

Look @ Q film badge - is it ok from contractor.

Understanding in letter that will go to Quarterly TLD or monthly film.

RESULTS

9. RADIATION AND CONTAMINATION SURVEYS

a. Radiation and Contamination surveys

- 1. radiation and contamination surveys recorded
- 2. surveys performed at required frequency: _____
- 3. appropriate instruments used
- 4. action limits observed, and post-decontamination surveys performed when necessary *1.86 limits used*
- 5. NRC inspector reviewed survey records for the period 10-5-89 to 10-8-90 *common areas*
- 6. maximum radiation levels in unrestricted area: 0 *specific areas, 5-3-90 - 6-8-90*

(C) NC
(C) NC NA NI

(y/n/na/ni)
y/n/na/ni
(y/n/na/ni)
(y/n/na/ni)

*samples
α/B cont*

b. Airborne Radioactivity Surveys performed

- 1. Air sampling in restricted areas
 - a. maximum concentration levels: _____
 - b. typical concentration levels: see below
- 2. bioassay procedures performed
 - a. type(s) urine *w/BC (once)
3-7-90
3-12-90*
 - b. maximum results 0
 - c. typical results 0
- 3. bioassay and air sampling records maintained as required
- 4. Principal isotopes U, Th

(C) NC NA NI

(y/n/na/ni)
(y/n/na/ni)

*8-15-91
12-11-90*

c. Leak tests of sealed sources performed as required

- 1. performed by user and method approved
- 2. tested at required interval: _____
- 3. records maintained
- 4. records reviewed by NRC inspector for the period _____ to _____

C NC (NA) NI

y/n/na/ni
y/n/na/ni
y/n/na/ni

Comments

*10-5-89
10-8-90*

Gross B 1.24 E-13 → 4.6 E-14

Gross J 5.43 E-14

Cross filed C areas.

4-24-90

7-4-90

Records available further back in time did not inspect

	RESULTS			
10. <u>EFFLUENT CONTROL, WASTE DISPOSAL</u>	<u>C</u>	NC	NA	NI
a. Releases to the environment in accordance with requirements.	C	NC	<u>NA</u>	NI
1. airborne releases are made			y/n/ <u>na</u> /ni	
a. evaluations adequate			y/n/ <u>na</u> /ni	
b. releases within limits (10 CFR 20.106)			y/n/ <u>na</u> /ni	
c. typical concentrations _____				
d. principal isotopes released _____				
2. liquid releases are made to _____ (sewer, unrestricted)			y/n/ <u>na</u> /ni	
a. evaluations adequate			y/n/ <u>na</u> /ni	
b. releases within limits (10 CFR 20.106, 10 CFR 20.303)			y/n/ <u>na</u> /ni	
c. typical concentrations _____				
d. principal isotopes released _____				
3. Records maintained			y/n/ <u>na</u> /ni	
b. Waste disposal in accordance with requirements	<u>C</u>	NC	NA	NI
1. methods: <u>Shipped to SGA for supercompacting</u> <u>Looked at records, + photos of the</u> <u>shipments.</u>				
2. records of waste transfer maintained			<u>y</u> /n/ <u>na</u> /ni	
3. surveys of waste containers and material in storage-for-decay performed			y/n/ <u>na</u> /ni	
4. obliteration of labels			y/n/ <u>na</u> /ni	
c. Burial of licensed material done in past			Yes/ <u>No</u>	
1. Location of past burials _____				
2. types of materials buried _____				
3. types of surveys of area, results: _____ _____				
d. 10 CFR 61 Requirements Reviewed			y/n/ <u>na</u> /ni	

Comments

		RESULTS			
<u>11. NOTIFICATIONS AND REPORTS</u>		C	NC	NA	NI
1.	Licensee is in compliance with				
	a. reports of thefts or losses (20.402)			y/n/na/ni	
	b. reports of incidents (excessive releases, fires, or other catastrophes) (20.403)			y/n/na/ni	
2.	Licensee took appropriate action in response to the following Bulletins, Circulars, and Information Notices.			y/n/na/ni	
	a. _____				
	b. _____				
	c. _____				

Comments

	RESULTS			
12. <u>OTHER LICENSE CONDITIONS</u>	C	NC	NA	NI

List any other license conditions which were reviewed during the inspection, and describe the results.

info only

a. Activities related to ~~insp~~ (C) NC
decommissioning + decontamination
See App C.

b. C NC

c. C NC

Comments

RESULTS

13. INDEPENDENT AND CONFIRMATORY MEASUREMENTS C NC NA NI

<u>a. Type of Survey</u>	<u>Areas Surveyed</u>	<u>Results</u> (indicate units)
1. <u>Radiation level</u>	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
2. <u>Wipe</u>	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____
3. <u>Sample (describe)</u>	_____	_____
	_____	_____
	_____	_____
	_____	_____
	_____	_____

4. Attach any sample analysis data from Region I laboratory

b. Survey Instruments Used

- | | | |
|--------------------------|----------|----------|
| 1. Type | a. _____ | b. _____ |
| 2. NRC # | a. _____ | b. _____ |
| 3. last calibration date | a. _____ | b. _____ |

Comments

APPENDIX A - DOCUMENTATION OF NONCOMPLIANCE

Requirement	Basis for noncompliance
1. 10 CFR _____ Lic Cond _____	
2. 10 CFR _____ Lic Cond _____	
3. 10 CFR _____ Lic Cond _____	
4. 10 CFR _____ Lic Cond _____	
5. 10 CFR _____ Lic Cond _____	
6. 10 CFR _____ Lic Cond _____	

APPENDIX B - LICENSEE ACTION ON PREVIOUS INSPECTION FINDINGS

Identification and summary of action taken	Status
Report No: _____	Severity Level _____
Describe previous violation:	
Corrective Action taken:	OPEN
	CLOSED
Report No.: _____	Severity Level _____
Describe previous violation:	
Corrective Action taken:	OPEN
	CLOSED
Report No: _____	Severity Level _____
Describe previous violation:	
Corrective action taken:	OPEN
	CLOSED

APPENDIX B (continued)

Identification and summary of action taken	Status
Report No: _____	Severity Level _____
Describe previous violation:	
Corrective action taken:	OPEN
	CLOSED
Report No: _____	Severity Level _____
Describe previous violation:	
Corrective action taken:	OPEN
	CLOSED
Report No: _____	Severity Level _____
Describe previous violation:	
Corrective action taken:	OPEN
	CLOSED

APPENDIX C - SUPPLEMENTARY INFORMATION

() Unusual occurrence, conditions, etc.

() Unresolved items

() Description of attachments to field notes

Inspector's comments

went on facility walk through with ORAU staff. Decommissioning work is extensive in some areas with some walls torn down and some excavations in basements. (w) would like to get the properties on one side of the street released. More decon is needed on the other side. ORAU made a videotape to determine the scope of the survey required. In approximately 3-5 weeks a work plan should be received by RFI for review. work to commence in December most likely. (w) expects to complete decon/decom. by spring. Guidance on one issue will be needed from NRC however. There is an area excavated in Bldg 7, Room 104 → 106 that has a deep drain. The drain runs out to Arlington ave but is ~~not~~ blocked. (w) would like some input from NRC for what extent excavation should or needs to be done. They do not want to destroy the structural walls of the bldg.

Other Hazards

Asbestos
Hg liquid
Cd, Ba, Sb - fixed residues
chemicals have been removed