

LICENSEE: Westinghouse Electric Corp REPORT NO. 89-001

ADDRESS: PO Box 355
Pittsburgh, PA 15230

LICENSEE CONTACT: Wayne Bickstaff TELEPHONE NO. 412-642-3880

LICENSE NUMBER	DOCKET NUMBER	CATEGORY	PRIORITY	PROGRAM CODE
<u>SMB-1521</u>	<u>040-08976</u>	<u> </u>	<u> </u>	<u> </u>
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INSPECTION DATE (S) November 1, 1989

TYPE OF INSPECTION

LOCATION(S) 1 Westinghouse Plaza,
Bloomfield NJ

☒ SPECIAL ☐ ROUTINE
☒ ANNOUNCED ☐ UNANNOUNCED
☒ DAYSHIFT ☐ BACKSHIFT

SUMMARY OF FINDINGS AND ACTION

<input type="checkbox"/> NO NONCOMPLIANCE, 591	<input type="checkbox"/> ACTION ON PREVIOUS NONCOMPLIANCE, APPENDIX B
<input checked="" type="checkbox"/> NO NONCOMPLIANCE, LETTER	<input checked="" type="checkbox"/> SUPPLEMENTAL INFORMATION, APPENDIX C
<input type="checkbox"/> NONCOMPLIANCE, 591	APPENDIX C
<input type="checkbox"/> NONCOMPLIANCE, LETTER	

PERSONS CONTACTED (Name, Title)

* Wayne Bickstaff, RSO
SEC representative
RMC representative


* attended exit meeting

[Signature] 11/22/89
Inspector Signature, Date

Inspector Signature, Date

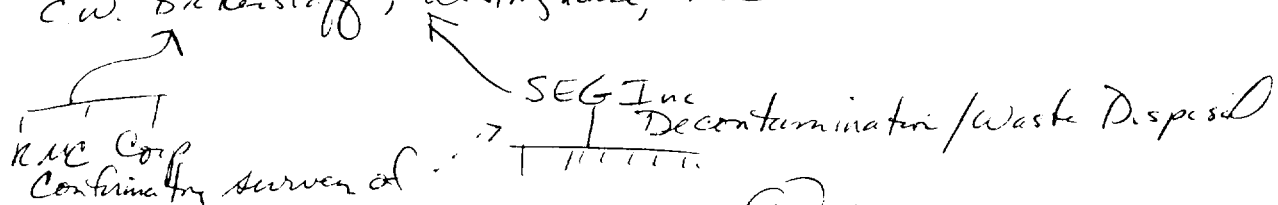
APPROVED

Signature, Date

		RESULTS	
1.	<u>ORGANIZATION</u>	<u>C</u> NC	
	a. Describe the management structure.	C NC	

See below

- b. Describe the radiation protection organization. C NC

C.W. Buckstaff, Washington, RSO

KAC Corp Confirming survey of ...
SEG Inc Decontamination/Waste Disposal

- 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

Buckstaff visits Bloomfield facility ~ 2x/monthly to review program and records

RESULTS

2. SCOPE OF LICENSED ACTIVITIES

C NC

- a. Describe the types of current activities.

C NC

Decor of buildings and grounds. Contamination >> release limits found in elevator shafts, air vents; Bldg 7 and 9 roofs; some outside areas including a former reservoir; pipe systems including common drain pipes and laboratory sewage systems and ramps.
Rad levels < 0.05 uR/hr → 1 uR/hr external of pipes etc

- 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.

SEC has ~ dozen workers. NMC has 2-4 at any time.

Asbestos workers given Rad Safety training prior to removal of contaminated asbestos

- c. Describe any changes since the last inspection, and any which may be planned.

Comments

Fixed contamination on walls and floor measured by contractors range from 200 - 2500 cpm (using pancake GM, ~10% efficiency)

Inside of pipes, contractors measured 200 - 2000 cpm.

		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 _____	y/n/na/ni			
3.	users complete on-the-job training	y/n/na/ni			
4.	tests are given				
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

Worker observed wearing protective clothing, using survey meter, taking samples etc.

		RESULTS
4.	<u>MATERIALS</u>	<u>C</u> NC
a.	Radioactive material as authorized by license.	<u>C</u> 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.	<u>C</u> 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

Comments

waste material only

	RESULTS
5. <u>FACILITIES MAINTAINED AS DESCRIBED IN APPLICATION</u>	<u>C</u> NC
a. postings and labelings as required	<u>C</u> NC
1. 20.203(b) radiation area	y/n/ <u>na</u> /ni
2. 20.203(d) airborne radiation area	y/n/ <u>na</u> /ni
3. 20.203(e) use or storage areas posted with "Caution - Radioactive Material"	y/n/ <u>na</u> /ni
4. 20.203(f) containers and devices properly labeled	<u>y/n</u> /na/ni
5. 19.11(a)(b) posting of documents	y/n/ <u>na</u> /ni
6. 19.11(c) posting of NRC-3	y/n/ <u>na</u> /ni
7. 20.203(c) high radiation areas	y/n/ <u>na</u> /ni
b. Security of licensed material is maintained.	<u>C</u> NC
1. locked in device cabinet or room	y/n/na/ni
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 <u>NA</u> 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

6. INSTRUMENTS, EQUIPMENT, AND DEVICES

(C) NC

- a. calibrated and operable meters available and used properly.

(C) NC NA NI

1. number, type, and ranges
(e.g. 2, ion chamber, 1R/hr; 3, GM, 10,000 cpm)

Number	Type	Range

3. calibrated by: _____
 4. calibration method as authorized _____
 5. calibration interval _____
 as required _____
 6. Records reviewed by NRC inspector for the
 period _____ to _____

y/n/na/(ni)

y/n/na/(ni)

- b. other special equipment (ventilation, hoods, shielding, etc) operable and available as described in license. Description:

C NC NA NI

air sampling equipment

Comments

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

Waste only

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

COMMENTS

		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				

Comments

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 _____ TLD
 - b. exchange frequency: _____
 - c. supplier _____
 - 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
2. NRC inspector reviewed personnel monitoring records from _____ to _____ y/n/na/ni
 - a. whole body quarterly dose: typical _____ max _____
 - b. extremity quarterly dose: typical _____ max _____
3. Forms NRC-4, NRC-5 or equivalent records completed y/n/na/ni
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

		RESULTS
9.	<u>RADIATION AND CONTAMINATION SURVEYS</u>	<u>C</u> NC
a.	Radiation and Contamination surveys	<u>C</u> NC NA NI
1.	radiation and contamination surveys recorded	<u>y/n/na/ni</u>
2.	surveys performed at required frequency: _____	<u>y/n/na/ni</u>
3.	appropriate instruments used	<u>y/n/na/ni</u>
4.	action limits observed, and post-decontamination surveys performed when necessary	<u>y/n/na/ni</u>
5.	NRC inspector reviewed survey records for the period _____ to _____	
6.	maximum radiation levels in unrestricted area: _____	
b.	Airborne Radioactivity Surveys performed	C NC NA <u>NI</u>
1.	Air sampling in restricted areas	y/n/na/ni
a.	maximum concentration levels: _____	
b.	typical concentration levels: _____	
2.	bioassay procedures performed	y/n/na/ni
a.	type(s) _____	
b.	maximum results _____	
c.	typical results _____	
3.	bioassay and air sampling records maintained as required	y/n/na/ni
4.	Principal isotopes _____	
c.	Leak tests of sealed sources performed as required	C NC <u>NA</u> NI
1.	performed by user and method approved	y/n/na/ni
2.	tested at required interval: _____	y/n/na/ni
3.	records maintained	y/n/na/ni
4.	records reviewed by NRC inspector for the period _____ to _____	

Comments

Decon worker (SEB) use minik and/or GMS to survey during work.

NRC performs confirmatory surveys using GMS, minik, and/or gas-flow proportional.

No soil core samples have yet been performed for RAN analysis. No water samples of effluent from contaminated pipes has yet been tested.

10. EFFLUENT CONTROL, WASTE DISPOSAL	RESULTS			
	C	NC	NA	NI
a. Releases to the environment in accordance with requirements.	C	NC	NA	NI
1. airborne releases are made				y/n/na/ni
a. evaluations adequate				y/n/na/ni
b. releases within limits (10 CFR 20.106)				y/n/na/ni
c. typical concentrations _____				
d. principal isotopes released _____				
2. liquid releases are made to _____ (sewer, unrestricted)				y/n/na/ni
a. evaluations adequate				y/n/na/ni
b. releases within limits (10 CFR 20.106, 10 CFR 20.303)				y/n/na/ni
c. typical concentrations _____				
d. principal isotopes released _____				
3. Records maintained				y/n/na/ni
b. Waste disposal in accordance with requirements	C	NC	NA	NI
1. methods: _____				

2. records of waste transfer maintained				y/n/na/ni
3. surveys of waste containers and material in storage-for-decay performed				y/n/na/ni
4. obliteration of labels				y/n/na/ni
c. Burial of licensed material done in past				Yes/No
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/na/ni

Comments

Waste is being shipped to packaged disposal
via SEB. 11 shipments made to date.

		RESULTS			
		C	NC	NA	NI
11. <u>NOTIFICATIONS AND REPORTS</u>					
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.

a. C NC

b. C NC

c. C NC

Comments

		RESULTS			
13. INDEPENDENT AND CONFIRMATORY MEASUREMENTS		C	NC	NA	NI
a. Type of Survey	Areas Surveyed	Results (indicate units)			
1. Radiation level	pipe basement Bldg 7	0.5 mR/hr			
	freight elevator shaft Bldg 7	0.1 mR/hr			
	roof Bldg 7	<0.05 mR/hr			
	Bldg 9	0.02 → 0.05 mR/hr			
	Bldg 6 pipe	<0.05 mR/hr			
2. Wipe	Bldg 2 "ramp"	<0.05 mR/hr			
	reservoir ground	<0.05 mR/hr			
3. Sample (describe)					
4. Attach any sample analysis data from Region I laboratory					

b. Survey Instruments Used

1. Type
2. NRC #
3. last calibration date

a. Ludlum 147
a. 9663
a.

b. _____
b. _____
b. _____

bkg: 40.02 mR/hr

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~~ Unusual occurrence, conditions, etc.

() Unresolved items

() Description of attachments to field notes

() Inspector's comments

- 1) licensee would like to remove contaminated pipe up to bearing walls, then seal off pipe with concrete (remaining pipe through wall is buried underground). They will submit criteria to support this option.
- 2) some water (drain) pipes between ~~rooms~~ floors, that connect bathroom sink drains, has retained [apparently] fixed contamination. This pipe is sealed in wall. They have done no water sampling of effluent from these pipes (water is currently turned off in Bldg 7). A GM probe inside pipe measures $\rightarrow 1200$ cpm. They believe this has formed solid "scale" inside pipe. They want to leave this pipe in place.
- * 3) They would like us to survey/release the roof of Bldg 7 ASAP as a new roof is necessary to prevent water damage. I told them to send in the survey results and request this.