



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D. C. 20555

JUN 19 1980

FCUP:RLS  
70-1151  
SNM-1107, Amendment No. 5

Westinghouse Electric Corporation  
ATTN: Mr. R. P. DiPiazza, Manager  
NES License Administration  
P.O. Box 355  
Pittsburgh, Pennsylvania 15230

Gentlemen:

In accordance with your application dated May 14, 1980, and pursuant to Title 10, Code of Federal Regulations, Part 70, Special Nuclear Materials License No. SNM-1107 is hereby amended to delete the requirement for gross beta analyses of environmental air particulates. Accordingly, the tables for Condition 39 of SNM-1107 which give the site radiological monitoring program and analytical sensitivities are replaced with the attached tables.

All other conditions of this license shall remain the same.

For your information, a copy of the environmental assessment prepared in support of this amendment is enclosed.

FOR THE NUCLEAR REGULATORY COMMISSION

A handwritten signature in cursive script, appearing to read "R. G. Page".

R. G. Page, Acting Chief  
Uranium Fuel Licensing Branch  
Division of Fuel Cycle and  
Material Safety

Enclosures:

1. Tables for Condition 39
2. Environmental Review on License Amendment to Delete Gross Beta Analyses for Air Particulates

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## ANALYTICAL SENSITIVITIES

<u>Sample</u>	<u>Analysis</u>	<u>Typical Sample Size</u>	<u>Minimum Detectable Level (MDL)</u>
Air Particulates <sup>(1)</sup>	Gross Alpha	571 m <sup>3</sup>	2.0 x 10 <sup>-15</sup> u Ci/ml
	Plutonium	571 m <sup>3</sup>	1.0 x 10 <sup>-15</sup> u Ci/ml
Fallout (wet) and Water <sup>(3)</sup>	Gross Alpha	1 liter	2.0 x 10 <sup>-9</sup> uCi/ml
	Gross Beta	1 liter	2.5 x 10 <sup>-8</sup> uCi/ml
	Uranium	1 liter	5.0 x 10 <sup>-7</sup> uCi/ml
	Plutonium	1 liter	5.0 x 10 <sup>-7</sup> uCi/ml
Fish	Gross Alpha	30 g	1.0 pCi/g
	Gross Beta	30 g	3.0 pCi/g
	Uranium	1 kg	0.02 pCi/g
	Plutonium	1 kg	0.02 pCi/g
Soil and Sediment <sup>(3)</sup>	Gross Alpha	100 g	1.0 pCi/g (dry)
	Gross Beta	100 g	3.0 pCi/g (dry)
	Uranium	100 g	0.02 pCi/g (dry)
	Plutonium	100 g	0.02 pCi/g (dry)
Vegetation <sup>(3)</sup>	Gross Alpha	100 g	1.0 pCi/g (dry)
	Gross Beta	100 g	3.0 pCi/g (dry)
	Uranium	100 g	0.02 pCi/g (dry)
	Plutonium	100 g	0.02 pCi/g (dry)
TLD <sup>(2)</sup>	Gamma Dose	1/4" x 1/4" x 0.035"	5 mR

(1) Westinghouse performs Gross Alpha for Air Particulates

(2) State of S. C. performs TLD analyses.

(3) All other analyses are typical statistics by outside vendors.

APPLICABLE TO CONDITION 39

TABLE FOR CONDITION 39  
COLUMBIA SITE RADIOLOGICAL MONITORING PROGRAM

<u>Types of Sample</u>	<u>No. of Locations *</u>	<u>Type of Analysis</u>	<u>Frequency</u>
Air Particulate	5 (1)	Gross $\alpha$ (2,3)	Continuous sampling
Fallout	6	Gross $\alpha, \beta$ (2,3)	Monthly
Vegetation (Crops)	4	Gross $\alpha, \beta$	Semi-annually
Well Water	3	Gross $\alpha, \beta$ (2,3)	Monthly
Surface Water	5	Gross $\alpha, \beta$ (2,3)	Monthly
Fish	2	Gross $\alpha, \beta$ (2,3)	Annually
Soil	4	Total U	Semi-annually
Sediment	1	Total U	Annually
TLD	3 (4)	Gamma Dose	Quarterly

\* Sampling locations shown on attached figures.

1 All samplers are located on W property. Four are operated by W and one is operated by the state of South Carolina.

2 W will assume all of the gross alpha is due to uranium enriched to 4% U-235 unless an U analysis has been performed.

3 In the event that W decides to fabricate Pu fuel assemblies on site, isotopic Pu analysis will be performed three months prior to the fuel arriving, during fabrication, and three months after the final shipment of Pu-bearing fuel.

4 The TLD analyses are performed by the State of South Carolina.