

Babcock & Wilcox

a McDermott company

Research & Development Division
Lynchburg Research Center

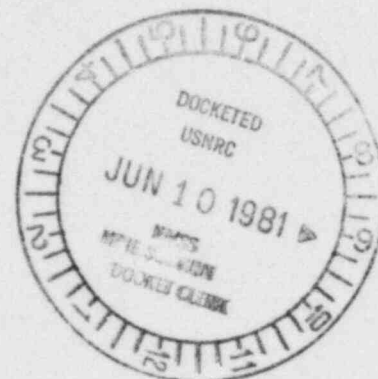
P.O. Box 1260
Lynchburg, Virginia 24505
(804) 384-5111

70-824 PDR
Return to
D. Cramer
396-55

1981 JUN 1 AM 10 13

May 26, 1981

U.S. NUCLEAR REG.
COMMISSION
MAIL SECTION



Mr. W. T. Crow, Section Leader
Uranium Process Licensing Section
Uranium Fuel Licensing Branch
Division of Fuel Cycle and Material Safety
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Dear Mr. Crow:

In response to your letter dated April 21, 1981, I am attaching the Lynchburg Research Center's plan for the decontamination of soil located in the unre-
stricted areas shown on drawing LRC-40115D forwarded with my letter of February 4, 1981.

Section 2.2 of the plan presents three options for storing or disposing of con-
taminated soil that is to be removed from the B&W owned unrestricted areas. Data
resulting from sampling and direct radiation surveys of this area are not now com-
plete enough to permit a final decision on the most preferable method. All three
options are in keeping with ALARA principles. I request that all three options
remain available to us for selection when the data is sufficiently complete. The
method selected may require approval by levels of management outside the Lynchburg
Research Center. I, therefore, request that if a time limit is necessary for the
final selection, it be sufficiently long to permit the off site review.

I will keep you informed of progress made with this operation. If you have
questions, please call me.

Yours very truly,

Arne F. Olsen
Sr. License Administrator

AFO:ccf

Attachment

FEE EXEMPT
info only

5107220041 810526
PDR ADOCK 07000824
PDR

19178

Plan for Decontamination of Unrestricted Areas

1. Unrestricted Areas not B&W Property
 - 1.1 Contaminated soil will be removed from all affected areas of the Chessie System railroad right-of-way.
 - 1.2 The contaminated soil will be containerized and shipped off site to a licensed waste disposal facility.
 - 1.3 Samples will be taken and direct surveys made, on ten (10) foot grids of the affected areas of the railroad right-of-way.
 - 1.4 When the sample and direct survey data confirm that the target criteria in your letter of April 21, 1981 has been met, the Lynchburg Research Center will notify the NRC's Region II Office that this area has been decontaminated and is ready for release for unrestricted use.

2. Unrestricted Area, B&W Property
 - 2.1 The soil with the highest levels of activity will be removed, containerized and shipped off site to a licensed waste disposal facility.
 - 2.2 The contaminated soil remaining after that of highest activity has been removed will be disposed of utilizing one of the three methods described below:
 - 2.2.1 The remaining soil will be containerized and shipped off site to a licensed waste disposal facility, or
 - 2.2.2 The remaining soil will be removed to a restricted area on B&W property. The soil will be seeded to prevent erosion by wind and rainfall. Two sampling wells will be drilled in locations that assures that any activity released from the soil to the ground water will be detected. Semi-annual samples from these wells will be analyzed to detect any increases above natural background activity, or
 - 2.2.3 The remaining soil will be removed to a building to be constructed for the purpose of retaining the soil. Water collected from drain tiles at the base of the building will be sampled semiannually to detect any increase above natural background activity. The outside of the building will constitute the restricted area boundaries.
 - 2.3 Samples will be taken and direct survey made on thirty (30) foot grids of the affected area.
 - 2.4 When the sample and direct survey data confirm that the target criteria in your letter of April 21, 1981, has been met, the Lynchburg Research Center will notify the NRC's Region II Office that this area has been decontaminated and is ready for release for unrestricted use.