

137165
M-536

Formerly Utilized Sites Remedial Action Program (FUSRAP)

ADMINISTRATIVE RECORD

for Maywood, New Jersey



U.S. Department of Energy



State of New Jersey

Department of Environmental Protection

Christine Todd Whitman
Governor

Nov 30

1 45 PM '95
C. Shinn, Jr.
Commissioner

Mr. William Schuber, County Executive
County of Bergen
Administration Build, Court Plaza South
21 Main Street
Room 300E
Hackensack, New Jersey 07601-7000

NOV 22 1995

Dear Mr. Schuber:

Re: Maywood Superfund Site

Thank you for your letter of November 2, 1995. As you indicated, the New Jersey Department of Environmental Protection (NJDEP) and the United States Department of Energy (USDOE) are currently involved in discussions relating to radiological cleanup guidelines. These discussions center upon the proposed remediation at Maywood as well as other USDOE sites in the state of New Jersey.

The NJDEP has provided the USDOE with proposed cleanup standards for the subject sites. This January 1995 proposal was developed pursuant to N.J.S.A 58:10B et. seq. (commonly referred to as S-1070) which requires the establishment of both residential and nonresidential cleanup criteria for those New Jersey properties involved in environmental remediation activities. As a point of clarification, although this statute deals with the implementation of the "ISRA" program, it also provides general mandates for the NJDEP as a department to develop cleanup guidelines accounting for acceptable risk factors providing for the protection of human health and the environment. This statute is the basis and continues to be the focus of discussions noted above.

Attached to this letter is a letter to Ms. Susan Cange, USDOE, dated January 25, 1995 which basically outlines the mandates of this new proposal. In a telephone conversation with Mr. Adam Strobel, I stated that the draft regulation was currently available for interested party review. Unfortunately, I was incorrect. The Commission on Radiation Protection must meet and give their approval prior to this document being distributed for interested party review. After their meeting on December 8, 1995, we hope that we will have this approval. At this time, we will forward you a copy of the proposal for your review and comment. I apologize for any problems that this delay may have caused.

I hope that the above has served to answer your questions. Should you have any additional questions with regard to the above please feel free to call either Nicholas Marton or myself at (609) 633-1455.

Sincerely,

Bruce Venner, Chief
Bureau of Federal Case Management

c: Nicholas Marton, MPH, BFCM
Angela Carpenter, USEPA
Susan Cange, USDOE
Jennifer Moon, BER
Adam Strobel, County of Bergen



137165

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Governor

Robert C. Shinn, Jr.
Commissioner

JAN 26 1995

Ms. Susan Cange, Site Manager
Former Sites Restoration Division
Department of Energy
Field Office, Oak Ridge
P.O. Box 2001
Oak Ridge, Tenn. 37831-8723

Dear Ms. Cange:

Re: Remediation Cleanup Levels for Thorium/Radium Contamination at the Wayne and Maywood Interim Storage Sites, No Subsequent Excavation/Construction

The New Jersey Department of Environmental Protection (NJDEP) has completed its evaluation of the federal cleanup proposals for the referenced sites pursuant to the requirements defined in , N.J.S.A. 58:10B-12d(1), (commonly referred to as S-1070), and as they pertain to the remediation of sites contaminated with radioactive wastes. As was discussed during the August 18, 1994 technical meeting between our respective agencies and the United States Environmental Protection Agency (USEPA), S-1070 requires the establishment of a residential and non-residential cleanup level for the remediation of all sites within the state. The establishment of these site specific residential and non-residential cleanup criteria are therefore a function of land use, potential exposure and resultant dose/response effects. As required by statute, said effects must be evaluated with regard to a potential 1×10^{-6} risk factor or adhere to natural background levels. Additionally and as we discussed in our August meeting, the NJDEP has developed its remedial cleanup criteria for thorium/radium contamination at the respective sites based upon residential and non-residential use scenarios. The criteria for the first scenario, namely where no new construction and resultant soil excavation of any kind takes place and that existing site use is maintained is as follows:

a) For the residential land use as defined by N.J.S.A. 58:10B-12d(1) the following progression shall be used:

Thorium + Radium Combined in picocuries per gram (pCi/g)
Resulting in Concentrations of Material Remaining On-Site ^{1,2}

- 4 pCi/g with one foot of "Clean Cover" over site
- 5 pCi/g with two feet of "Clean Cover" over site

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b) For the non-residential land use as defined by N.J.S.A. 58:10B-12d(1) and 37165
statutorily requiring the placement of a "Notice of Environmental Restriction"
the following progression shall be used:

Thorium + Radium Combined in picocuries per gram (pCi/g)
Resulting in Concentrations of Material Remaining On-Site^{1,2} -


12 pCi/g with one foot of "Clean Cover" over site
15 pCi/g with two feet of "Clean Cover" over site

1: Assumes a 10 to 1 Thorium to Radium Ratio at the Wayne Site
2: Assumes a 4 to 1 Thorium to Radium Ratio at the Maywood Site

As indicated above, this site specific analysis assumes no new construction in impacted areas. Furthermore, the limit upon new construction in such areas would be designated by the placement of a "Notice of Environmental Restriction" pursuant to N.J.S.A. 58:10B-12d(1) also described above. Additional remedial considerations or caveats will become necessary in the event that a change in land use prompts excavation of soils/residuals with concomitant potential exposures.

If you have any questions concerning the above please call me at
(609) 633 - 1455.

Sincerely,



Nicholas L. Marton, MPH
Research Scientist II/Case Manager
Bureau of Federal Case Management

c: Wayne Howitz, DRE
Bob Stern, BER
Angela Carpenter, USEPA, Region II

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