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Formerly Utilized Sites Remedial Action Program (FUSRAP)

ADMINISTRATIVE RECORD

for Maywood, New Jersey



U.S. Department of Energy

**Department of Energy**

Oak Ridge Operations Office
P.O. Box 2001
Oak Ridge, Tennessee 37831-8723

September 25, 1995

Ms. Angela Carpenter, Project Manager
Federal Facilities Section
U. S. Environmental Protection Agency
Region II
290 Broadway
18th Floor
New York, New York 10007-1866

Dear Ms. Carpenter:

MAYWOOD SITE - TRANSMITTAL OF CALCULATION RESULTS FOR NATIONAL EMISSION STANDARDS FOR HAZARDOUS AIR POLLUTANTS (NESHAPs)

Enclosed for your information are the results of radionuclide emission calculations performed by the U.S. Department of Energy (DOE) in preparation for the scheduled removal of soil from the Maywood vicinity properties to the Maywood site in FY 1996. Two calculations were performed: one for the Long Valley Road properties and one for activities at the Maywood site.

The properties that are scheduled for remediation in FY 1996 are 79 Avenue B; 90 Avenue C; 108, 112, and 113 Avenue E; 14, 16, 18, 20, 22, 24, and 26 Long Valley Road; and the I-80 right-of-way. Remediation is to be performed in the following sequence: 79 Avenue B, 90 Avenue C, and 113 Avenue E will be remediated as a group this fall; 108 Avenue E and 112 Avenue E will be worked as a group in the spring of 1996; and the remainder of the properties will be remediated as a group in the summer of 1996.

For purposes of assessing dose from vicinity property activities, the properties on Long Valley Road were assumed to represent the maximum dose to the public from FY 1996 activities. The volume of contaminated soil to be removed is the largest for this group; the maximum radionuclide concentrations measured during characterization activities were assumed for all soil to be excavated; and the duration of remedial activities at this group is much longer than the other two groups. Because of these reasons, one calculation based on activities at the Long Valley Road properties was performed. The calculated dose to an individual assumed to be present 10 meters at all times from these activities is 0.29 mrem.

Ms. Angela Carpenter

2

September 25, 1995

With regards to activities at MISS, the calculated dose to an individual assumed to be present 10 meters south of the excavation at all times during the activities is 0.44 mrem. This calculation is based on transportation of removed soil to the MISS by covered dump trucks and soil staging and loading operations at MISS. A dose calculation has been enclosed for this activity as well.

Both calculations represent a maximum exposure scenario in terms of soil volume, radionuclide concentration, and duration of activities. These calculations do not assume the application of engineering controls. Actual radionuclide concentration and duration of activities is anticipated to be much less. Continuous air samplers will be employed at perimeter locations throughout vicinity property activities and engineering controls such as dust suppression and erosion control will be in effect.

If you have questions or need further information, please contact me at (423) 576-5724.

Sincerely,


Susan M. Cange, Site Manager
Former Sites Restoration Division

Enclosures

cc: Paul Giardina, EPA II
Nick Marton, NJDEP