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United States Government

Department of Energy

**memorandum**

DATE: SEP 7 1984

REPLY TO  
ATTN OF: NE-20SUBJECT: Action Description Memorandum (ADM) Review: Proposed 1984 Remedial Actions  
at Middlesex, New Jersey

TO: File

Department of Energy (DOE) proposes to carry out some remedial actions during 1984 at two sites in Middlesex, New Jersey. The proposed 1984 remedial actions include cleanup of radioactively contaminated materials located at the Middlesex Landfill and interim storage of these contaminated materials at DOE's Middlesex Sampling Plant site. The major proposed actions include:

- o Excavation of approximately 14,000 m<sup>3</sup> (18,000 yd<sup>3</sup>)\* of landfill materials, of which about one-third (4,600 m<sup>3</sup> (6,000 yd<sup>3</sup>))\* is expected to be radioactively contaminated. (These wastes are expected to be co-contaminated with hazardous chemicals.\*\*)
- o Transport of the 4,600 m<sup>3</sup> (6,000 yd<sup>3</sup>)\* of radioactively contaminated wastes to the Sampling Plant site and placement of these materials in a new interim-storage pile on the existing asphalt storage pad.
- o Backfilling of the excavated area at the Landfill with the 9,200 m<sup>3</sup> (12,000 yd<sup>3</sup>)\* of excavated wastes that have radionuclide concentrations below the cleanup criteria, supplemented with approximately 4,600 m<sup>3</sup> (6,000 yd<sup>3</sup>)\* of clean fill materials to restore the Landfill to the original grade.
- o Construction of support facilities at the Landfill, including an access road, a vehicle decontamination area, and an area for stockpiling and drying excavated materials (as necessary) prior to transport.

The radioactively contaminated materials will be removed from the Landfill according to DOE's radiological guidelines for residual radionuclide concentrations in soil at FUSRAP sites. Following removal

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\* These volumes are being revised as detailed engineering progresses. As of April 24, 1984, the estimated total volume to be excavated has been reduced to 13,000 m<sup>3</sup> (16,000 yd<sup>3</sup>), of which 4,200 m<sup>3</sup> (5,500 yd<sup>3</sup>) is expected to be radioactively contaminated.

\*\* Because of the chemical contamination, the proposed actions have been coordinated with the U.S. Environmental Protection Agency (Attachment 1).

of the radioactively contaminated materials, DOE will make a decision regarding the future use of the property relative to the final radiological condition of the site. A decision on future use of the Landfill relative to chemical contamination is not within DOE's jurisdiction. The U.S. Environmental Protection Agency (EPA) and State and local governments have jurisdiction with respect to hazardous chemical in the Landfill and will determine the need for further remedial actions, if any.

Details and impact analysis for the activities are given in the attached ADM (Action Description Memorandum "Proposed 1984 Remedial Actions at Middlesex, New Jersey" - Attachment 2).

The proposed 1984 remedial actions are a continuation of remedial actions involving the former Middlesex Sampling Plant and vicinity properties. The current status of the Middlesex remedial action is noted in Section 2 "General Setting" on page 2-1 of the attached ADM.

After reviewing all of the pertinent facts including the attached ADM, I have determined that the remedial action described in the subject ADM is an action which in and of itself will have a clearly insignificant impact on the quality of the human environment within the meaning of the National Environmental Policy Act (NEPA), 42 U.S.C. 4321 et seq.

Separate environmental reviews will be prepared to support future decisions on remedial action at Middlesex, New Jersey, including permanent disposition of the contaminated materials or other remedial actions that may impact the quality of the human environment within the meaning of the NEPA, 42 U.S.C. 4321 et seq.



Franklin E. Coffman, Director  
Office of Terminal Waste Disposal  
and Remedial Action  
Office of Nuclear Energy

2 Attachments\*

cc: w/attachs.  
S. Miller, GC-11  
S. Woodbury, PE-252

\*Note: The second attachment referenced herein precedes this memorandum as part of Exhibit II(4).