DEC 2 7 1962

Eussell E. Te/gue, M. D. Commissioner of Health Commonwealth of Kentucky 275 Vast Maja Street Frank Lort, Lentucky

Dear Ir Tiague:

Thank year for your very informative letter of December 7, 1962, concerning Muclear Engineering Company's waste disposal license. We were interested to learn of the licensee's operating techniques and procedures and your procedures in evaluating this application.

On the subject of backfilling of trenches, which you discussed in your letter, and which was also discussed in my letter to Mr. Neel of Movember 26, 1962, the Division of Licensing and Regulation desires to convey some additional comments which may be of interest to you, as follows:

Packages stored in open trenches as well as above ground will deteriorate. The time required for package failure depends on the mature of the package and climatic conditions. Other factors such as prevalence of rodents must also be considered. Accordingly, a time limit for open storage of radioactive waste packages should be specified.

Typical land burial operations follow a practice of dusping packages into tranches. Little care is exercised to prevent packages from rupturing. This practice is permissible since the safety of land burial is not contingent upon packages maintaining their integrity after they are buriad, provided that trunches containing ruptured packages are back filled immediately to prevent dispersion of the radioactive waste to the environment.

Should open storage in trenches be permitted for specified time intervals, the licenses should have a satisfactory procedure for lowering or placing packages in the trenches in a manner which will preclude their rupture. If, through accident, a package does rupture, immediate back filling should be required.

8708030139 870724 PDR FDIA MINTON87-235 PDR We appreciate your invitation to visit the Nuclear Engineering facility subsequent to commencement of burial operations.

If we can be of any assistance to you in any matters concerning your regulatory program, please contact us.

Sincerely yours,

Forrast Western, Director Division of Radiation Protection Standards

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REASONS WHY THE STATE GOVERNMENTS SHOULD ASSUME CONTROL OF RADIOACTIVE WASTE DISPOSAL UNDER THE AEC STATE AGREEMENT

- 1. Considerable improvement in public relations can be anticipated under state control of radioactive disposal. The state government of necessity has close political relations with the city., county and local community. The likehihood of agreement upon location of radioactive waste disposal sites, commercial radioactive waste disposal firms, etc. is much better and less less local friction would be generated.
- 2.—The location of waste disposal sites within the states offers economic advantages to radioactive material users in view of the fact that transpostation costs would be minimized. Additional savings may be made in elimination of the incineration method of disposal, as bulky waste can be hauled short distances and effective incinerators are costly. There is an economic advantage to the AEC in that AEC contractors could use local state disposal facilities/
- 3. The number of disposal sites now existing in a given state could be reduced. That is, it would not be necessary for individusers to use backyard burial, incineration, or disposal to sewers, if other more economical, or more safer methods and locations for disposal are provided. It knowld be possible for radioactive waste disposal to be concentrated at one location.
- 4. It is advantageous for the state to assume control of radioactive waste disposal because this activity is compatible with their normal functions. The states at present have programs involving the control, operation and approval of sewage treatment plants, underground water supplies, stream pollution, air pollution, andustrial waste disposal, sanitary land fills, etc. For them, radioactive waste disposal would be simply another factor that can be controlled on their general program.
- 5. In determining the lowction of future disposal sites, the states, because of their knowledge about local territory, geography, topography, geology, hydrology, etc. are in an ideal position to select the proper location. Additionally, knowing local meteorologie cal conditions and daily water usage, they are in a position for a determining the exceptions to limits on incinerations or sewerage disposal.
- · 6. The state already has personnel trained in evaluation of environmental health hazards, and will have parsonnel trained in radiation before an agreement is effected. Any hazards attendant to radioactive waste disposal should be readily controlled by this combinatt ion of experience and training.