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OFFICE OF SECRETARY
DOCKETING & SERVICE
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May 24, 1994

Secretary of the Commission
US Nuclear Regulatory Commission
Washington DC 20555

Attention: Docketing and Service Branch

Gentlemen:

This is in response to the request for comments on the current policy for disposal of radioactive material by release into sanitary sewerage systems. Protein Engineering Corporation is a small biotechnology company licensed to use radioactive materials for molecular biology research and therapeutic product development. Following is our position on this issue.

(1) Form of material released: The most recent regulations restrict sewerage disposal to materials that are soluble or readily dispersible biological materials. We believe that any prior concerns for concentration of non-biological readily dispersible materials are resolved by the new restriction to biological materials and are unaware of any significant problems with soluble materials. We therefore recommend continuation of this allowed release form.

(2) Total quantity of material: Although these unchanged limits easily meet the needs of most licensees including Protein Engineering Corporation, it seems appropriate, given the new restriction on form of material released and the new more restrictive release concentrations, to consider relaxation of these limits for large users since reconcentration should be much less of a concern. It may even be practical to eliminate such an upper cap totally, depending only on concentration restrictions with the reduced limits now in effect.

(3) Types of limits: The present method of limitation based on an individual being exposed by ingestion of water from the sewer outfall seems to be sufficiently conservative to satisfy all needs, particularly in view of the new lower release concentrations. This is readily controllable in the workplace and is easily understood for radionuclide users. Proper adherence to concentration limits would appear to negate the need for an upper cap as mentioned in item 2 above.

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(4) Exemption of patient excreta: Continuation of this important exemption is encouraged as a significant ALARA consideration. Collection and control of patient excreta would result in the deliberate reconcentration of a significant waste stream with the potential for worker exposure, spills, and emergency issues that have been avoided through the judicious use of this exemption. The rapid dispersal of this soluble waste stream of short-lived material seems the most practical approach to this issue and we strongly recommend the continuation of the exemption in its current form.

We thank the commission for the opportunity to comment on this important issue and look forward to commenting on any proposed regulations that are forthcoming.

Yours truly,

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