



March 6, 1978

Mr. Robert O. McClintock, Chief  
Materials Radiological Protection  
Section  
U. S. Nuclear Regulatory Commission  
Region 1  
631 Park Avenue  
King of Prussia, Pennsylvania 19406

Dear Mr. McClintock:                      Subject: Inspection 78-01

This is in response to your letter of February 22, 1978,  
regarding the subject inspection.

To improve our capability to detect removable contamination  
and radioactivity in water, we have ordered an Eberline  
single channel pulse height analyzer, Model MS-2, with  
appropriate ancillary equipment. The order was placed  
March 3, and the equipment has an expected 30-day delivery.  
This more sophisticated equipment, we feel, will enable us  
to obtain a high degree of accuracy in our radiation control  
program.

Regarding the infraction noted in Appendix A to your letter,  
a routine procedure in our monthly safety check has been to  
survey the water treatment resin beds to determine if there  
is any radioactive buildup. Normally, this survey would  
give the earliest indication of potential troubles. No such  
survey ever taken has indicated a potential or actual unusual  
buildup of activity; hence there was no reason to believe  
that the provisions of 10 CFR 20.106 were being violated  
when the units were regenerated. In addition, there is a  
continual radiation monitor, with alarm, on the beds, which  
is preset to alarm at a very low level of radioactive buildup.

We have added the following steps to our regeneration procedure:

Water samples of the backflush effluent will be taken  
as follows:

- (1) During the first 4-5 minutes of backflushing.
- (2) After the first hour of backflushing.
- (3) As further directed by the RPO or Assistant RPO.

8507130368 850502  
PDR FOIA  
GIDWANI84-705 PDR

ISOMEDIX INC.

CORPORATE OFFICES • 90 SOUTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981 • (201) 587-4700

Mr. Robert O. McClintock, Chief  
Materials Radiological  
Protection Section  
U. S. Nuclear Regulatory Commission

March 6, 1978

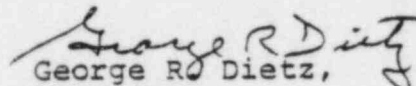
-2-

After each sample is taken, the backflush operation will be suspended until the sample is counted and the results reviewed by the RPO or the Assistant RPO.

Records of these counts will be maintained for a period of two years.

At this point, we feel we are now in full compliance with the subject infraction.

Very truly yours,

  
George R. Dietz,  
President

GRD:of

ISOMEDIX INC.

CORPORATE OFFICES • 80 SOUTH JEFFERSON ROAD, WHIPPANY, NEW JERSEY 07981 • (201) 887-4700