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Reg Guide



TERRADEX CORPORATION

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June 6, 1980

Robert B. Minogue, Director
Office of Standard Development
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Docket
Reg. Guide 4.14

Dear Mr. Minogue:

Thank you for forwarding to us Regulatory Guide 4.14, Revision 1, April 1980 and the related comment discussion compiled by John Hickey. As you may know, Terradex supplies to mining and environmental clients the Track Etch® system for radon monitoring. The Track Etch technique is passive and integrating for the continuous measurement of Rn-222, as specified on pages 4.14 - 2, 4.14 - 4, 4.14 - 8, 4.14 - 12, 4.14 - 15 and 4.14 - 16. The technique does not require an integrated air sample, but simply integrates the radon level in the ambient atmosphere.

Track Etch has been thoroughly calibrated at the U.S. DOE Environmental Measurements Laboratory and is in use for home monitoring both overseas and by the U.S. EPA. It is also being used for radon monitoring of uranium mill and tailings sites by several clients. The technique can measure outdoor ambient radon with continuous exposure from one month to one year. Exposure sensitivity is 0.4 (pCi/l) - months as defined by Thomas (Health Physics 23 783).

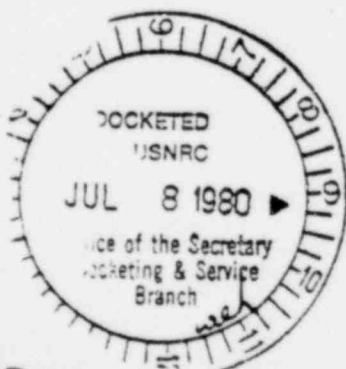
Both our calibration data and sensitivity numbers were discussed at a meeting with NRC people on April 9, 1980 including Greg Eadie and John Hickey.

We feel that our technology can be useful to our mining clients and to the NRC. We would appreciate hearing from you on how we can best work with you on future revisions of 4.14.

Sincerely,

H. Ward Alter
President

HWA/sh
cc: Greg Eadie
John Hickey



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Acknowledged by card *7/28/80*

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