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Sergey.K.Koshemchuk@fakeaddress.net on 09/04/2001 01:35:39 AM

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To: EISR, Bonnie Fogdall/YM/RWDOE  
CC:

Subject: SDEIS Comment

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September 04, 2001 01:35:39

IP address: 195.239.62.206

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---> Commentors Name: Sergey K Koshemchuk Phd  
---> Organization: Alkor Technologies  
---> Position: AT  
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---> The Commentors Address:  
---> Radischeva  
---> St. Petersburg, Utah 123196  
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---> Email Information:  
---> kosh@alkor.net  
---> Add commentor to the mailing list : yes  
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---> Contact Information:  
---> fax number : 329-  
---> phone number : +-812329  
---> organization : Alkor Technologies  
---> position : AT  
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---> Comment Text :  
Attantion to:

Dr. Jane Summerson  
EIS Document Manager  
U. S. Department of Energy  
Yucca Mountain Site Characterization Office  
P.O. Box 30307 M/S 10  
North Las Vegas, NV 89036-0707

Dear Dr. Jane Summerson

let us inform you about our possibilities in  
x-ray and gamma-ray radiation measurements production.  
If some items mentioned are of the interest  
we are ready and open for further cooperation.

Alkor Technologies, St. Petersburg, Russia ? the owner of the biggest one in Russia  
Scintillation Production Plant - is a company producing high tech products for nuclear  
techniques, science & industry equipment. The company has a great experience in  
optical crystal products manufacturing. Main directions of our activities are the  
following:

1. Manufacturing of x-ray and gamma-ray detection products on base of NaI(Tl),  
CsI(Tl), CsI(Na), CsI(pure) scintillation monocrystals. We produce:

- ground blanks;
- scintillation detectors with optical or Quartz windows, coupled in Alumina  
or Stainless Steel;
- Scintillation assemblies (detector with Photomultiplier) with diameter up  
to 200 mm and length up to 200 mm;

2. Standard scintillation detectors size (diameter x height mm) are as follows:  
10x10, 25x25, 40x40, 63x63, 100x100, 150x150, 200x100 (both spectral grade and  
counting grade).

3. We offer the possibility to repack the scintillation detector lost its  
sensitivity in time. Repaired detectors are covered by full 2 years (or 8 000hr)  
warranty for hermetic seal and scintillation performance reliability. The price of  
this procedure is significantly less than the price of a new detector.

4. We supply AIRBORNE GAMMA-SPECTROMETER GSA-2000

For measuring and mapping the distribution of man-made and natural radionuclides as  
well as search for gamma radiation sources.

Number of operating channels 512

R 0.66 MeV 10-11

Short-time instability < 0.3%

Long-time instability <0.5%

Sensitive volume NaI(Tl), L 6-15

Orientation price \$100 000.

5. We supply BGO, CWO, CZT, ZnSe, LSO, BSO monocrystal detectors and linear arrays.

6. We supply LBO, BBO, KTP nonlinear optical elements.

7. We manufacture wide range of optical elements on the base of optical glass and the following crystals: Al<sub>2</sub>O<sub>3</sub>, NaCl, KBr, KCl, CaF<sub>2</sub>, MgF<sub>2</sub>, BaF<sub>2</sub>, LiF, ZnSe. The detail can be delivered both blanks and polished with optical coating.

For more information please visit [http: www.alkor.net](http://www.alkor.net)

If the described positions are of your interest we will make every efforts to satisfy your practical requirements and applications.

Yours sincerely,

Sergey Koshemchuk,  
manager.

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