



United States
Department of
Agriculture
(541) 923-4358 Ext. 114

Natural Resources
Conservation
Service

Redmond Service Center
625 SE Salmon Ave., Suite 4
Redmond, Oregon 97756-8696
Fax (541) 923-4713

Subject: 210-ENG-Practice Standard 521, Pond Liner

Date: June 2, 1998

To: Brad Elliott, President
Bend Tarp & Liner, Inc.
63012 Layton Ave.
Bend, OR 97701

File Code: 210-11

Dear Mr. Elliott:

I have just received notice from our Director, Conservation Engineering Division in Washington DC that an extended variance to use the Shintoa PPL-24 has been approved. The variance would only include PPL-24 installed by Bend Tarp and Liner. This material is approved for a non-soil-covered condition for irrigation ponds up to 2 acres in size.

The variance was based on our field observations, viewing actual field repairs to a system that had been in a few years, and testimonial from you stating the ease of repair. Other aspects were excellent durability, economic and UV resistant qualities and were functioning as intended in the installations we observed.

I would also like to take this opportunity to thank you for putting on the shop and field demonstrations on such a short notice. This really aided our national engineers in making the decision on your product and service.

If you have any questions or comments please do not hesitate to contact me at the address above.

Sincerely,

Steve Rychetsky, P.E.
Deschutes Basin Engineer
Redmond Service Center



625 SE Salmon Ave., Suite 4, Redmond, Oregon 97756-9580 (541) 923-4358 Ext. 114 Fax: (541) 923-4713

Subject: 210-ENG-Practice Standard 521, Pond Liner

Date: March 22, 2004

To: Brad Elliott, President
Bend Tarp & Liner, Inc.
63012 Layton Ave.
Bend, Oregon 97701

File Code: 210

Re: NRCS Variance on PPL-24

I have just received notice from our Director, Conservation Engineering Division in Washington DC that extends the variance for NRCS Oregon "Minimum Criteria for Membranes" to use the PPL-24 liner material. The variance is to use this material on small ponds installed under 552-A, Irrigation Pit or Regulating Reservoirs Standards and Specifications. This variance corresponds to the two previous three year variances for the same design specifications and material use. This material is used for ponds and reservoirs cost shared under various USDA-NRCS cost share programs.

The variance was based, once again, on field observations, viewing actual field repairs and testimonial from landowners to the long-term use of this material. Other aspects were excellent durability, economics and UV resistant qualities. And the projects are functioning as intended in all the installations observed.

The variance is not a blanket approval to use this material, but requires proper design aspects, site preparation, construction techniques and installation inspections. Other requirements of the variance are for small ponds of less than two surface acres, with clear clean water and without earth cover. The installations must also be similar to the previous installations designed and installed with NRCS Specifications, Construction Requirements, Operation and Maintenance procedures, and Construction Inspections.

Thank you for taking the time to put on a shop tour and answering questions from the inspecting engineers. If you should have any questions or comments please do not hesitate to contact me at the above address.



STEVE RYCHETSKY, P.E., S.E.
Deschutes Basin Engineer
USDA-NRCS Redmond Service Center