APPENDIX I

Anthrax Mitigation Plan
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Enbridge Energy, Limited Partnership
Enbridge Pipeline (Southern Lights), L.L.C.

Anthrax Mitigation Plan

Alberta Clipper
and
Southern Lights Diluent
Pipeline Projects

March 20, 2009
Alberta Clipper and Southern Lights Diluent Pipeline Projects

ANTHRAX MITIGATION PLAN

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ANTHRAX MITIGATION PLAN

Introduction

Enbridge Energy, Limited Partnership and Enbridge Pipelines (Southern Lights), L.L.C. (“Enbridge”) has developed this Anthrax Mitigation Plan to address potential risks associated with pipeline construction activities in areas of known historical outbreaks of anthrax in livestock in Minnesota. The plan provides an overview of anthrax, identifies Enbridge’s proposed pipeline route within the impacted counties, and identifies mitigative measures to minimize the potential for grazing animals in the vicinity of the projects to ingest anthrax spores and become infected with the disease.

This plan is based on publicly available information from the Minnesota Department of Health (MDH) and the Minnesota Board of Animal Health (BAH). MDH notes that there is little to no risk to humans of contracting anthrax as the result of soil disturbance activities. Since construction workers on the projects and the landowners in the vicinity of the projects are not at risk for contracting the disease as the result of pipeline construction activities, this plan addresses concerns related to animal health and not human health.

Overview of Anthrax

According BAH’s Website (www.bah.state.mn.us/diseases/anthrax/anthrax.html), anthrax is a naturally occurring disease caused by the bacterium Bacillus anthracis. Grazing animals such as cattle, horses, sheep, and goats are most commonly affected by the disease. Anthrax has been reported on approximately 260 Minnesota farms, located primarily in the southwestern and northwestern regions of the state, since it was first reported in 1909.

Anthrax spores can occur naturally in the soil of areas with historical outbreaks of the disease, and can survive for long periods of time. Soil disturbance activities in locations where anthrax affected animals are buried may uncover spores, which could possibly be ingested by livestock grazing in these areas. The ingested spores could become active and cause the animal to become infected with anthrax. A vaccine is available to prevent livestock in high risk areas from getting infected.

Locations of Historical Anthrax Outbreaks in Northwestern Minnesota

BAH’s maps of anthrax outbreaks (www.bah.state.mn.us/diseases/anthrax/updates.html), indicate that between 1909 and 1999, outbreaks occurred predominantly in the southwestern region of the state (Figure 1). Anthrax outbreaks in the northwestern region of the state, including the counties crossed by the proposed Alberta Clipper and Southern Lights Diluent pipeline, occurred from 2000 to 2008. BAH further notes that during the summer of 2006, 91 animals died on 28 farms in Kittson, Polk, Roseau, Red Lake, Marshall, and Lake of the Woods Counties, making 2006 the second worst year for anthrax outbreaks in Minnesota since 1909. However, there was only one reported case in 2007, which was reported in Marshall County. The only case reported so far in 2008 was for two cows on a Becker County farm that tested...
positive for anthrax in April. Figure 1 illustrates the proposed route for the Alberta Clipper and Southern Lights Diluent pipelines in Minnesota as well as the counties in which outbreaks have occurred. The impacted counties along the pipeline route are Kittson, Marshall, Pennington, Red Lake, and Polk Counties. Note that the Southern Lights Diluent route does not cross any county where anthrax has historically been reported. Therefore, the remainder of this discussion will pertain only to the Alberta Clipper project in the affected counties.

Mitigative Measures to Prevent Anthrax Infection

To minimize the potential for grazing animals in the vicinity of Enbridge’s Alberta Clipper Project to ingest uncovered anthrax spores and become infected with the disease, the following mitigative measures will be implemented:

- Prior to construction, Enbridge will survey landowners along the route to determine in writing whether the property has been associated with any of the historical outbreaks. Special precautions will be taken on any lands determined to have had an anthrax outbreak to mitigate the potential risk to grazing animals as the result of pipeline construction. If landowners of impacted properties plan to have grazing animals in the vicinity of the construction area, Enbridge will make arrangements at their discretion to either fence off the disturbed right-of-way on the properties for two years or work with the landowner to have the animals vaccinated.

- During construction, Enbridge will implement dust control measures, such as watering, on the disturbed areas on or near any anthrax-impacted property to minimize windborne transport of spores to adjacent properties.

- Prior to construction, Enbridge will notify local veterinarians near anthrax-impacted properties of its proposed activities and inform them of the impacted property that will be crossed by the project.

- Prior to construction, Enbridge will notify feedlot operators located within 1 mile of any anthrax-impacted property of its proposed activities. Enbridge will work with these operators and their veterinarians to develop a mutually agreeable plan of action to protect the health of their livestock.
Figure 1
Location of Proposed Alberta Clipper and Southern Lights Diluent Pipeline Projects and Counties Historically Impacted by Anthrax in Minnesota

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After Board or Animal Health Website http://www.bah.state.mn.us/diseases/anthrax/updates.html
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