

# General Environmental Incident Summary

**Incident:** 2139      **Date/Time Notice:** 12/10/2013      0655      **DEM Incident No:**

**Responsible Party:** Minnesota Power

**Date Incident:** 12/8/2013      **Time Incident:** 1430      **Duration:**

**County:** Morton      **Twp:** 140      **Rng:** 86      **Sec:** 4      **Qtr:**

**Lat:** 46.97976      **Long:** -101.55400      **Method:** Interpolation from map

**Location Description:** 5198 30th Street, New Salem, ND Minnesota Power Bison Wind Energy Center

**Submitted By:** Blake Francis

**Affiliation:** Minnesota Power

**Address:** 30 West Superior St.

**City:** Duluth

**State:** MN

**Zip:** 55802

## Received By:

**Contact Person:** Tim Mork  
5198 30th Street  
New Salem, ND 58563

## Distance Nearest Occupied Building:

**Type of Incident:** Glycol release

**Description of Released Contaminant:** Ethylene Glycol from wind turbine cooling systems (Zerex G-20 Antifreeze coolant)

**Volume Spilled:** 7.00 gallons

**Ag Related:** No

**EPA Extremely Hazardous Substance:** No

**Reported to NRC:** No

## Cause of Incident:

Extreme drop in temperature resulted in the clamps on the rubber hoses on outside cooling system radiators to loosen releasing small amounts of glycol largely to the cooling systems concrete slabs at 15 wind turbine locations at Minnesota Power's Bison Wind Energy Center. Total release across all 15 turbines is estimated at approximately 7 gallons. Small amounts of snow/soil were affected by some glycol running off the slabs at a few of the sites.

## Risk Evaluation:

No immediate or future risk

**# of Fatalities:** 0

**# of Injuries:** 0

**Affected Medium:** 09 - other

## Potential Environmental Impacts:

No impacts to surface or ground water or soils because of frozen ground conditions and spilled material/medium is being collected and disposed of in accordance with regulations.

## Action Taken or Planned:

All affected wind turbine cooling systems hose clamps have been retorqued to eliminate any further release of glycol. An inert medium (oil dry) has been applied to spilled glycol to soak up the released material. The oil dry/glycol and any snow/soil cleanup debris will be collected, drummed, and disposed of/recycled in accordance with NDDH regulations/guidance. All other Minnesota Power Bison Wind Energy Center turbine locations have/are being inspected and corrective actions taken to

assure that no more glycol releases are experienced.

**Wastes Disposal Location:** Will be managed through Safety Clean or Clean Harbors Environmental

**Agencies Involved:**

### **Updates**

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**Date:** 12/10/2013 **Status:** Reviewed - No Action Required

**Author:** Roberts, Kris

**Updated Volume:**

### **Notes:**

Explanation of release and response sufficient to show that the company is responding properly to the situation. It has performed the necessary containment and cleanup of the sites involved.