

House File 2580

H-8228

1 Amend House File 2580 as follows:

2 1. Page 9, after line 24 by inserting:

3 <16. a. Prior to the issuance of any permit or approval for  
4 a wind energy conversion facility, the applicant shall submit  
5 to the local authority a microplastic and fiberglass emission  
6 mitigation plan. The plan shall be prepared by a qualified  
7 environmental scientist or professional engineer licensed in  
8 the state of Iowa and shall include all of the following:

9 (1) An assessment of the composition of all turbine blade  
10 materials, including fiberglass, epoxy resin, polyurethane  
11 coatings, and any materials containing bisphenol A or other  
12 substances listed on the United States environmental protection  
13 agency's priority pollutant list.

14 (2) An estimate of the annual rate of leading edge erosion  
15 for each turbine model proposed, expressed in grams per year  
16 per blade, based on peer-reviewed scientific literature or  
17 manufacturer data applicable to the wind and precipitation  
18 conditions at the proposed site.

19 (3) An analysis of the likely dispersion pattern of  
20 microplastic and fiberglass particles from blade erosion,  
21 including modeling of wind-driven particle transport, with  
22 specific reference to all agricultural land, watercourses,  
23 drainage ditches, wetlands, and potable water sources within  
24 one mile of any proposed turbine location.

25 (4) A description of the blade coating and leading edge  
26 protection systems to be employed, including the manufacturer's  
27 specifications for erosion resistance and estimated effective  
28 lifespan of such systems.

29 (5) A schedule for inspection and maintenance of blade  
30 coatings and leading edge protection systems, including the  
31 criteria that will trigger recoating or blade replacement.

32 (6) A remediation plan describing the measures the  
33 applicant will take to identify and remove fiberglass or  
34 microplastic contamination of soil, water, or agricultural  
35 products on nonparticipating property should such contamination

1 occur, whether from gradual erosion or catastrophic blade  
2 failure.

3     *b.* The local authority shall not approve the application  
4 unless the local authority finds that the microplastic and  
5 fiberglass emission mitigation plan, submitted pursuant to  
6 paragraph "a", adequately addresses the risk of microplastic  
7 and fiberglass contamination to agricultural land, water  
8 resources, and human health within the affected area.

9     *c.* The applicant shall file an updated microplastic and  
10 fiberglass emission mitigation plan with the local authority  
11 no less frequently than every five years following initial  
12 commercial operation, or within sixty days following any  
13 catastrophic blade failure event, whichever is sooner.

14     *d.* The microplastic and fiberglass emission mitigation plan,  
15 submitted pursuant to paragraph "a", and all updates thereto  
16 shall be public records available for inspection at the office  
17 of the county recorder.

18     *e.* This subsection shall not apply to a renewable electric  
19 power generation facility that does not include a wind energy  
20 conversion facility.>

21     2. By renumbering, redesignating, and correcting internal  
22 references as necessary.

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