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SENATE BILL DRS45311-CC-9A

Short Title: Definitions for Advanced Recycling. (Public)

Sponsors: Senators Sawrey, Craven, and Overcash (Primary Sponsors).

Referred to:

1 A BILL TO BE ENTITLED
2 AN ACT TO EXEMPT ADVANCED RECYCLING FACILITIES FROM SOLID WASTE
3 PERMITTING REQUIREMENTS.

4 The General Assembly of North Carolina enacts:

5 SECTION 1.(a) G.S. 130A-290 reads as rewritten:

6 "§ 130A-290. Definitions.

7 "(a) Unless a different meaning is required by the context, the following definitions shall
8 apply throughout this Article:

9 ...

10 (24) "Recovered material" means a material that has known recycling potential,
11 can be feasibly recycled, and has been diverted or removed from the solid
12 waste stream for sale, use, or reuse. In order to qualify as a recovered material,
13 a material must meet the requirements of G.S. 130A-309.05(c). Recovered
14 material includes post-use polymers and recovered feedstocks that are
15 processed at an advanced recycling facility or held at such facility prior to
16 processing.

17 ...

18 (35) "Solid waste" means any hazardous or nonhazardous garbage, refuse or sludge
19 from a waste treatment plant, water supply treatment plant or air pollution
20 control facility, domestic sewage and sludges generated by the treatment
21 thereof in sanitary sewage collection, treatment and disposal systems, and
22 other material that is either discarded or is being accumulated, stored or treated
23 prior to being discarded, or has served its original intended use and is
24 generally discarded, including solid, liquid, semisolid or contained gaseous
25 material resulting from industrial, institutional, commercial and agricultural
26 operations, and from community activities. Notwithstanding
27 sub-sub-subdivision b.3. of this subdivision, the term includes coal
28 combustion residuals. The term does not include:

29 ...

30 f. Recovered material-material, including post-use polymers and
31 recovered feedstocks converted at an advanced recycling facility or
32 held at such facility prior to conversion through an advanced recycling
33 process.

34 ...

35 (38) "Solid waste management" means purposeful, systematic control of the
36 generation, storage, collection, transport, separation, treatment, processing,



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- 1 recycling, recovery and disposal of solid waste. Solid waste management does
2 not include advanced recycling.
- 3 (39) "Solid waste management facility" means land, personnel and equipment used
4 in the management of solid waste. Solid waste management facility does not
5 include an advanced recycling facility.
- 6 ...
- 7 (46) "Advanced recycling" means a manufacturing process for the conversion of
8 post-use polymers and other recovered feedstocks into basic raw materials,
9 feedstocks, chemicals, and other recycled products through processes that
10 include pyrolysis, gasification, depolymerization, catalytic cracking,
11 reforming, solvolysis, chemolysis, and other similar technologies. Advanced
12 recycling does not include incineration of plastics or waste-to-energy
13 processes.
- 14 (47) "Advanced recycling facility" means a manufacturing facility that receives,
15 stores, and converts post-use polymers and other recovered feedstocks it
16 receives using advanced recycling.
- 17 (48) "Depolymerization" means a manufacturing process in which post-use
18 polymers are broken into smaller molecules such as monomers, oligomers,
19 plastic or chemical feedstocks, waxes, lubricants, coatings, or other raw,
20 intermediate, or final products.
- 21 (49) "Gasification" means a manufacturing process through which post-use
22 polymers or other recovered feedstocks are heated in an oxygen-controlled
23 atmosphere and converted into synthesis gas, followed by conversion into
24 valuable raw, intermediate, or final products, including plastic monomers,
25 chemicals, waxes, lubricants, coatings, and plastic and chemical feedstocks.
- 26 (50) "Post-use polymer" means a plastic to which all of the following apply:
27 a. It is derived from any industrial, commercial, agricultural, or domestic
28 activities and may include pre-consumer or postconsumer recovered
29 materials.
30 b. It has been sorted from solid waste and other regulated waste but may
31 contain residual amounts of waste such as organic material and
32 incidental contaminants or impurities such as paper labels and metal
33 rings.
34 c. It is not mixed with solid waste or hazardous waste on-site or during
35 processing at the advanced recycling facility.
36 d. Its use or intended use is as a feedstock for the manufacturing of
37 feedstocks, raw materials, or other intermediate or final products using
38 advanced recycling.
39 e. It is processed at an advanced recycling facility or held at such facility
40 prior to processing.
- 41 (51) "Pyrolysis" means a manufacturing process through which post-use polymers
42 or other recovered feedstocks are heated in the absence of oxygen until melted
43 and thermally decomposed and are then cooled, condensed, and converted into
44 valuable raw, intermediate, or final products, including plastic monomers,
45 chemicals, waxes, lubricants, and plastic and chemical feedstocks.
- 46 (52) "Recovered feedstock" means a post-use polymer or materials for which the
47 United States Environmental Protection Agency has made a non-waste
48 determination pursuant to 40 C.F.R. § 241(c) or has otherwise determined are
49 feedstocks and not solid waste, that has been processed so that it may be used
50 as feedstock in an advanced recycling facility. Recovered feedstock does not
51 include unprocessed municipal solid waste or waste that has been mixed with

1 solid waste or hazardous waste on-site or during processing at an advanced
2 recycling facility.
3 (53) "Solvolysis" means a manufacturing process through which post-use
4 polymers are purified with the aid of solvents, allowing additives and
5 contaminants to be removed in order to produce monomers, intermediates,
6 valuable chemicals, plastic and chemical feedstocks, and other raw materials.
7 Solvolysis includes hydrolysis, aminolysis, ammonolysis, methanolysis, and
8 glycolysis.

9 "

10 **SECTION 1.(b)** The Revisor of Statutes is authorized to renumber the subdivisions
11 of G.S. 130A-290, as amended by subsection (a) of this section, to ensure that the subdivisions
12 are listed in alphabetical order and in a manner that reduces the current use of alphanumeric
13 designations, to make conforming changes, and to reserve sufficient space to accommodate
14 future additions to the statutory section.

15 **SECTION 2.** This act is effective when it becomes law.