

REQUEST FOR TECHNICAL CHANGE

AGENCY: Coastal Resources Commission

RULE CITATION: 15A NCAC 07H .0301

DEADLINE FOR RECEIPT: Friday, September 11, 2020

PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.

The Rules Review Commission staff has completed its review of this Rule prior to the Commission's next meeting. The Commission has not yet reviewed this Rule and therefore there has not been a determination as to whether the Rule will be approved. You may call our office to inquire concerning the staff recommendation.

In reviewing this Rule, the staff recommends the following technical changes be made:

What is the overall intent of this Rule? Is it simply to provide what the Ocean Hazard areas are? If so, do you need the first sentence?

If you do need the first sentence, please rework it to get rid of "the next broad grouping"

On line 7, delete "special"

On line 8, delete or define "unreasonably"

On line 10, delete or define "substantial" and "excessive"

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May
Commission Counsel
Date submitted to agency: August 31, 2020

1 15A NCAC 07H .0301 is readopted as published in 34:09 NCR 757 as follows:

2

3

SECTION .0300 - OCEAN HAZARD AREAS

4

15A NCAC 07H .0301 OCEAN HAZARD CATEGORIES

6 The next broad grouping is composed of those AECs that are considered natural hazard areas along the Atlantic Ocean
7 shoreline where, because of their special vulnerability to erosion or other adverse effects of sand, wind, and water,
8 uncontrolled or incompatible development could unreasonably endanger life or property. Ocean hazard areas include
9 beaches, frontal dunes, inlet lands, and other areas in which geologic, vegetative and soil conditions indicate a
10 substantial possibility of excessive erosion or flood damage.

11

12 *History Note: Authority G.S. 113A-107(a); 113A-107(b); 113A-113(b)(6a); 113A-113(b)(6b); 113A-113(b)(6d);*

13

113A-124;

14

Eff. September 9, 1977;

15

Readopted Eff. October 1, 2020.

REQUEST FOR TECHNICAL CHANGE

AGENCY: Coastal Resources Commission

RULE CITATION: 15A NCAC 07H .0302

DEADLINE FOR RECEIPT: Friday, September 11, 2020

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In reviewing this Rule, the staff recommends the following technical changes be made:

What is the overall intent of this Rule? Is it necessary? What directives it is attempting to convey to your public? Overall, this Rule appears to meet the definition of a "policy" as set forth in G.S. 150B-2(7a). Please review and revise to provide clear directives to your regulated public.

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May
Commission Counsel
Date submitted to agency: August 31, 2020

1 15A NCAC 07H .0302 is readopted as published in 34:09 NCR 757 as follows:

2

3 **15A NCAC 07H .0302 SIGNIFICANCE OF THE OCEAN HAZARD CATEGORY**

4 (a) The primary causes of the hazards peculiar to the Atlantic shoreline are the constant forces exerted by waves,
5 winds, and currents upon the unstable sands that form the shore. During storms, these forces are intensified and can
6 cause significant changes in the bordering landforms and to structures located on them. Ocean hazard area property
7 is in the ownership of a large number of private individuals as well as several public agencies and is used by a vast
8 number of visitors to the coast. Ocean hazard areas are critical, therefore, because of both the severity of the hazards
9 and the intensity of interest in the areas.

10 (b) The location and form of the various hazard area landforms, in particular the beaches, dunes, and inlets, are in a
11 permanent state of flux, responding to meteorologically induced changes in the wave climate. For this reason, the
12 appropriate location of structures on and near these landforms must be reviewed carefully in order to avoid their loss
13 or damage. As a whole, the same flexible nature of these landforms which presents hazards to development situated
14 immediately on them offers protection to the land, water, and structures located landward of them. The value of each
15 landform lies in the particular role it plays in affording protection to life and property. (The role of each landform is
16 described in detail in Technical Appendix 2 in terms of the physical processes most important to each.) Overall,
17 however, the energy dissipation and sand storage capacities of the landforms are most essential for the maintenance
18 of the landforms' protective function.

19

20 *History Note: Authority G.S. 113A-107(a); 113A-107(b); 113A-113(b)(6a); 113A-113(b)(6b); 113A-113(b)(6d);*

21

113A-124;

22

Eff. September 9, 1977;

23

Amended Eff. October 1, 1992;

24

Readopted Eff. October 1, 2020.

REQUEST FOR TECHNICAL CHANGE

AGENCY: Coastal Resources Commission

RULE CITATION: 15A NCAC 07H .0303

DEADLINE FOR RECEIPT: Thursday, September 10, 2020

PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.

The Rules Review Commission staff has completed its review of this Rule prior to the Commission's next meeting. The Commission has not yet reviewed this Rule and therefore there has not been a determination as to whether the Rule will be approved. You may call our office to inquire concerning the staff recommendation.

In reviewing this Rule, the staff recommends the following technical changes be made:

What is the overall intent of this Rule? Is it necessary? What directives it is attempting to convey to your public? In particular, Paragraph (a) appears to meet the definition of a "policy" as set forth in G.S. 150B-2(7a). Please either delete Paragraph (a) or review and revise to provide clear directives to your regulated public.

In (b), by "these Rules", do you mean "the Rules set forth in this Section"

Please note that I see that Rule .0303 is referenced in .0306. What specifically is being referenced? Just (b)?

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May
Commission Counsel
Date submitted to agency: August 31, 2020

1 15A NCAC 07H .0303 is readopted as published in 34:09 NCR 757 as follows:

2

3 **15A NCAC 07H .0303 MANAGEMENT OBJECTIVE OF OCEAN HAZARD AREAS**

4 (a) The CRC recognizes that absolute safety from the destructive forces indigenous to the Atlantic shoreline is an
5 impossibility for development located adjacent to the coast. The loss of life and property to these forces, however,
6 can be greatly reduced by the proper location and design of structures and by care taken in prevention of damage to
7 natural protective features particularly primary and frontal dunes. Therefore, it is the CRC's objective to provide
8 management policies and standards for ocean hazard areas that serve to eliminate unreasonable danger to life and
9 property and achieve a balance between the financial, safety, and social factors that are involved in hazard area
10 development.

11 (b) The purpose of these Rules shall be to further the goals set out in G.S. 113A-102(b), with particular attention to
12 minimizing losses to life and property resulting from storms and long-term erosion, preventing encroachment of
13 permanent structures on public beach areas, preserving the natural ecological conditions of the barrier dune and
14 beach systems, and reducing the public costs of inappropriately sited development. Furthermore, it is the objective
15 of the Coastal Resources Commission to protect present common-law and statutory public rights of access to and
16 use of the lands and waters of the coastal area.

17

18 *History Note: Authority G.S. 113A-107(b); 113A-113(b)(6) a.; 113A-113(b)(6) b.;113A-113(b)(6)d.; 113A-124;*
19 *Eff. September 9, 1977;*

20 *Amended Eff. October 1, 1992; December 1, 1991; September 1, 1985; February 2, 1981;*

21 *Readopted Eff. October 1, 2020.*

1 15A NCAC 07H .0304 is readopted as published in 34:09 NCR 757 as follows:

2
3 **15A NCAC 07H .0304 AECS WITHIN OCEAN HAZARD AREAS**

4 The ocean hazard AECs contain all of the following areas:

- 5 (1) Ocean Erodible Area. This is the area where there exists a substantial possibility of excessive erosion
6 and significant shoreline fluctuation. The oceanward boundary of this area is the mean low water
7 line. The landward extent of this area is the distance landward from the first line of stable and natural
8 vegetation as defined in 15A NCAC 07H .0305(a)(5) to the recession line established by multiplying
9 the long-term annual erosion rate times 90; provided that, where there has been no long-term erosion
10 or the rate is less than two feet per year, this distance shall be set at 180 feet landward from the first
11 line of stable and natural vegetation. For the purposes of this Rule, the erosion rates are the long-
12 term average based on available historical data. The current long-term average erosion rate data for
13 each segment of the North Carolina coast is depicted on maps entitled "North Carolina 2019
14 Oceanfront Setback Factors & Long-Term Average Annual Erosion Rate Update Study" and
15 approved by the Coastal Resources Commission on February 28, 2019 (except as such rates may be
16 varied in individual contested cases or in declaratory or interpretive rulings). In all cases, the rate of
17 shoreline change shall be no less than two feet of erosion per year. The maps are available without
18 cost from any Local Permit Officer or the Division of Coastal Management on the internet at
19 <http://www.nccoastalmanagement.net>.
- 20 (2) Inlet Hazard Area. The inlet hazard areas are natural-hazard areas that are especially vulnerable to
21 erosion, flooding, and other adverse effects of sand, wind, and water because of their proximity to
22 dynamic ocean inlets. This area extends landward from the mean low water line a distance
23 encompassing that area within which the inlet migrates, based on statistical analysis, and shall
24 consider such factors as previous inlet territory, structurally weak areas near the inlet, and external
25 influences such as jetties, terminal groins, and channelization. The areas on the maps identified as
26 Inlet Hazard Areas included in the report entitled INLET HAZARD AREAS, The Final Report and
27 Recommendations to the Coastal Resources Commission, 1978, as amended in 1981, by Loie J.
28 Priddy and Rick Carraway are incorporated by reference and are hereby designated as Inlet Hazard
29 Areas, except for:
- 30 (a) the location of a former inlet which has been closed for at least 15 years;
- 31 (b) inlets that due to shoreline migration, no longer include the current location of the inlet;
- 32 and
- 33 (c) inlets providing access to a State Port via a channel maintained by the United States Army
34 Corps of Engineers.
- 35 In all cases, the Inlet Hazard Area shall be an extension of the adjacent ocean erodible areas
36 and in no case shall the width of the inlet hazard area be less than the width of the adjacent
37 ocean erodible area. This report is available for inspection at the Department of

1 Environmental Quality, Division of Coastal Management, 400 Commerce Avenue,
2 Morehead City, North Carolina or at the website referenced in Item (1) of this Rule.

3 (3) Unvegetated Beach Area. Beach areas within the Ocean Hazard Area where no stable and natural
4 vegetation is present may be designated as Unvegetated Beach Areas on either a permanent or
5 temporary basis as follows:

6 (a) An area appropriate for permanent designation as an Unvegetated Beach Area is a dynamic
7 area that is subject to rapid unpredictable landform change due to wind and wave action.
8 The areas in this category shall be designated following studies by the Division of Coastal
9 Management. These areas shall be designated on maps approved by the Coastal Resources
10 Commission and available without cost from any Local Permit Officer or the Division of
11 Coastal Management on the internet at the website referenced in Item (1) of this Rule.

12 (b) An area that is unvegetated as a result of a hurricane or other major storm event may be
13 designated by the Coastal Resources Commission as an Unvegetated Beach Area for a
14 specific period of time, or until the vegetation has re-established in accordance with 15A
15 NCAC 07H .0305(a)(5). At the expiration of the time specified or the re-establishment of
16 the vegetation, the area shall return to its pre-storm designation.

17 The Commission designates as temporary unvegetated beach areas those oceanfront areas of Surf
18 City and North Topsail Beach in which the vegetation line as shown on the United States National
19 Oceanic and Atmospheric Administration imagery dated September 17, 2018 was destroyed as a
20 result of Hurricane Florence in September 2018. The designation AEC boundaries can be found on
21 the Division's website at

22 https://files.nc.gov/ncdeq/Coastal%20Management/GIS/unvegetated_beach_aec.pdf. This
23 designation shall continue until such time as the stable and natural vegetation has reestablished, or
24 until the area is permanently designated as an unvegetated beach area pursuant to Sub-Item (3)(a)
25 of this Rule.

26 (4) State Ports Inlet Management Area. These are areas adjacent to and within Beaufort Inlet and the
27 mouth of the Cape Fear River, providing access to a State Port via a channel maintained by the
28 United States Army Corps of Engineers. These areas are unique due to the influence of federally-
29 maintained channels, and the critical nature of maintaining shipping access to North Carolina's State
30 Ports. These areas may require specific management strategies not warranted at other inlets to
31 address erosion and shoreline stabilization. State Ports Inlet Management Areas shall extend from
32 the mean low water line landward as designated on maps approved by the Coastal Resources
33 Commission and available without cost from the Division of Coastal Management, and on the
34 internet at the website at

35 https://files.nc.gov/ncdeq/Coastal%20Management/GIS/state_port_aec.pdf.

36
37 *History Note: Authority G.S. 113A-107; 113A-107.1; 113A-113; 113A-124;*

1 *Eff. September 9, 1977;*
2 *Amended Eff. December 1, 1993; November 1, 1988; September 1, 1986; December 1, 1985;*
3 *Temporary Amendment Eff. October 10, 1996;*
4 *Amended Eff. April 1, 1997;*
5 *Temporary Amendment Eff. October 10, 1996 Expired on July 29, 1997;*
6 *Temporary Amendment Eff. October 22, 1997;*
7 *Amended Eff. April 1, 2020; July 1, 2016; September 1, 2015; May 1, 2014; February 1, 2013;*
8 *January 1, 2010; February 1, 2006; October 1, 2004; April 1, 2004; August 1, 1998;*
9 *Readopted Eff. October 1, 2020.*

1 15A NCAC 07H .0305 is readopted as published in 34:09 NCR 757 as follows:

2
3 **15A NCAC 07H .0305 GENERAL IDENTIFICATION AND DESCRIPTION OF LANDFORMS**

4 (a) This Paragraph describes natural and man-made features that are found within the ocean hazard area of
5 environmental concern.

6 (1) Ocean Beaches. Ocean beaches are lands consisting of unconsolidated soil materials that extend
7 from the mean low water line landward to a point where either:

8 (A) the growth of vegetation occurs; or

9 (B) a distinct change in slope or elevation alters the configuration of the landform, whichever
10 is farther landward.

11 (2) Nearshore. The nearshore is the portion of the beach seaward of mean low water that is characterized
12 by dynamic changes both in space and time as a result of storms.

13 (3) Primary Dunes. Primary dunes are the first mounds of sand located landward of the ocean beaches
14 having an elevation equal to the mean flood level (in a storm having a one percent chance of being
15 equaled or exceeded in any given year) for the area plus six feet. Primary dunes extend landward to
16 the lowest elevation in the depression behind that same mound of sand commonly referred to as the
17 "dune trough".

18 (4) Frontal Dunes. The frontal dune is the first mound of sand located landward of ocean beaches that
19 has stable and natural vegetation present.

20 (5) Vegetation Line. The vegetation line refers to the first line of stable and natural vegetation, which
21 shall be used as the reference point for measuring oceanfront setbacks. This line represents the
22 boundary between the normal dry-sand beach, which is subject to constant flux due to waves, tides,
23 storms and wind, and the more stable upland areas. The vegetation line is generally located at or
24 immediately oceanward of the seaward toe of the frontal dune or erosion escarpment. The Division
25 of Coastal Management or Local Permit Officer shall determine the location of the stable and natural
26 vegetation line based on visual observations of plant composition and density. If the vegetation has
27 been planted, it may be considered stable when the majority of the plant stems are from continuous
28 rhizomes rather than planted individual rooted sets. Planted vegetation may be considered natural
29 when the majority of the plants are mature and additional species native to the region have been
30 recruited, providing stem and rhizome densities that are similar to adjacent areas that are naturally
31 occurring. In areas where there is no stable and natural vegetation present, this line may be
32 established by interpolation between the nearest adjacent stable natural vegetation by on-ground
33 observations or by aerial photographic interpretation.

34 (6) Static Vegetation Line. In areas within the boundaries of a large-scale beach fill project, the
35 vegetation line that existed within one year prior to the onset of project construction shall be defined
36 as the "static vegetation line". The "onset of project construction" shall be defined as the date
37 sediment placement begins, with the exception of projects completed prior to the original effective

1 date of this Rule, in which case the award of the contract date will be considered the onset of
2 construction. A static vegetation line shall be established in coordination with the Division of
3 Coastal Management using on-ground observation and survey or aerial imagery for all areas of
4 oceanfront that undergo a large-scale beach fill project. Once a static vegetation line is established,
5 and after the onset of project construction, this line shall be used as the reference point for measuring
6 oceanfront setbacks in all locations where it is landward of the vegetation line. In all locations where
7 the vegetation line as defined in this Rule is landward of the static vegetation line, the vegetation
8 line shall be used as the reference point for measuring oceanfront setbacks. A static vegetation line
9 shall not be established where a static vegetation line is already in place, including those established
10 by the Division of Coastal Management prior to the effective date of this Rule. A record of all static
11 vegetation lines, including those established by the Division of Coastal Management prior to the
12 effective date of this Rule, shall be maintained by the Division of Coastal Management for
13 determining development standards as set forth in Rule .0306 of this Section. Because the impact of
14 Hurricane Floyd in September 1999 caused significant portions of the vegetation line in the Town
15 of Oak Island and the Town of Ocean Isle Beach to be relocated landward of its pre-storm position,
16 the static line for areas landward of the beach fill construction in the Town of Oak Island and the
17 Town of Ocean Isle Beach, the onset of which occurred in 2000, shall be defined by the general
18 trend of the vegetation line established by the Division of Coastal Management from June 1998
19 aerial orthophotography.

- 20 (7) Beach Fill. Beach fill refers to the placement of sediment along the oceanfront shoreline. Sediment
21 used solely to establish or strengthen dunes shall not be considered a beach fill project under this
22 Rule. A "large-scale beach fill project" shall be defined as any volume of sediment greater than
23 300,000 cubic yards or any storm protection project constructed by the U.S. Army Corps of
24 Engineers.
- 25 (8) Erosion Escarpment. The normal vertical drop in the beach profile caused from high tide or storm
26 tide erosion.
- 27 (9) Measurement Line. The line from which the ocean hazard setback as described in Rule .0306(a) of
28 this Section is measured in the unvegetated beach area of environmental concern as described in
29 Rule .0304(3) of this Section. In areas designated pursuant to Rule .0304(3)(b) of this Section, the
30 Division of Coastal Management shall establish a measurement line by:
- 31 (A) determining the average distance the pre-storm vegetation line receded at the closest
32 vegetated site adjacent to the area designated by the Commission as the unvegetated beach
33 AEC; and
- 34 (B) mapping a line equal to the average recession determination in Part (A) of this
35 Subparagraph, measured in a landward direction from the first line of stable and natural
36 vegetation line on the most recent pre-storm aerial photography in the area designated as
37 an unvegetated beach AEC.

1 (10) Development Line. The line established in accordance with 15A NCAC 07J .1300 by local
2 governments representing the seaward-most allowable location of oceanfront development. In areas
3 that have development lines approved by the CRC, the vegetation line or measurement line shall be
4 used as the reference point for measuring oceanfront setbacks instead of the static vegetation line,
5 subject to the provisions of Rule .0306(a)(2) of this Section.

6 (b) For the purpose of public and administrative notice and convenience, each designated minor development permit-
7 letting agency with ocean hazard areas may designate, subject to CRC approval in accordance with the local
8 implementation and enforcement plan as defined in 15A NCAC 07I .0500, an identifiable land area within which the
9 ocean hazard areas occur. This designated notice area shall include all of the land areas defined in Rule .0304 of this
10 Section. Natural or man-made landmarks may be considered in delineating this area.

11
12 *History Note: Authority G.S. 113A-107; 113A-113(b)(6); 113A-124;*
13 *Eff. September 9, 1977;*
14 *Amended Eff. December 1, 1992; September 1, 1986; December 1, 1985; February 2, 1981;*
15 *Temporary Amendment Eff. October 10, 1996;*
16 *Amended Eff. January 1, 1997;*
17 *Temporary Amendment Eff. October 10, 1996 Expired on July 29, 1997;*
18 *Temporary Amendment Eff. October 22, 1997;*
19 *Amended Eff. April 1, 2020; April 1, 2016; April 1, 2008; August 1, 2002; August 1, 1998;*
20 *Readopted Eff. October 1, 2020.*

REQUEST FOR TECHNICAL CHANGE

AGENCY: Coastal Resources Commission

RULE CITATION: 15A NCAC 07H .0306

DEADLINE FOR RECEIPT: Thursday, September 10, 2020

PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.

The Rules Review Commission staff has completed its review of this Rule prior to the Commission's next meeting. The Commission has not yet reviewed this Rule and therefore there has not been a determination as to whether the Rule will be approved. You may call our office to inquire concerning the staff recommendation.

In reviewing this Rule, the staff recommends the following technical changes be made:

In (a)(3), capitalize "state"

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May
Commission Counsel
Date submitted to agency: August 31, 2020

1 15A NCAC 07H .0306 is readopted as published in 34:09 NCR 757 as follows:

2
3 **15A NCAC 07H .0306 GENERAL USE STANDARDS FOR OCEAN HAZARD AREAS**

4 (a) In order to protect life and property, all development not otherwise specifically exempted or allowed by law or
5 elsewhere in the Coastal Resources Commission's rules shall be located according to whichever of the following is
6 applicable:

7 (1) The ocean hazard setback for development shall be measured in a landward direction from the
8 vegetation line, the static vegetation line, or the measurement line, whichever is applicable.

9 (2) In areas with a development line, the ocean hazard setback shall be set in accordance with
10 Subparagraphs (a)(3) through (9) of this Rule. In no case shall new development be sited seaward
11 of the development line.

12 (3) In no case shall a development line be created or established on state owned lands or oceanward of
13 the mean high water line or perpetual property easement line, whichever is more restrictive.

14 (4) The ocean hazard setback shall be determined by both the size of development and the shoreline
15 long term erosion rate as defined in Rule .0304 of this Section. "Development size" is defined by
16 total floor area for structures and buildings or total area of footprint for development other than
17 structures and buildings. Total floor area includes the following:

18 (A) The total square footage of heated or air-conditioned living space;

19 (B) The total square footage of parking elevated above ground level; and

20 (C) The total square footage of non-heated or non-air-conditioned areas elevated above ground
21 level, excluding attic space that is not designed to be load-bearing.

22 Decks, roof-covered porches, and walkways shall not be included in the total floor area unless they
23 are enclosed with material other than screen mesh or are being converted into an enclosed space
24 with material other than screen mesh.

25 (5) With the exception of those types of development defined in 15A NCAC 07H .0309, no
26 development, including any portion of a building or structure, shall extend oceanward of the ocean
27 hazard setback. This includes roof overhangs and elevated structural components that are
28 cantilevered, knee braced, or otherwise extended beyond the support of pilings or footings. The
29 ocean hazard setback shall be established based on the following criteria:

30 (A) A building or other structure less than 5,000 square feet requires a minimum setback of 60
31 feet or 30 times the shoreline erosion rate, whichever is greater;

32 (B) A building or other structure greater than or equal to 5,000 square feet but less than 10,000
33 square feet requires a minimum setback of 120 feet or 60 times the shoreline erosion rate,
34 whichever is greater;

35 (C) A building or other structure greater than or equal to 10,000 square feet but less than 20,000
36 square feet requires a minimum setback of 130 feet or 65 times the shoreline erosion rate,
37 whichever is greater;

- 1 (D) A building or other structure greater than or equal to 20,000 square feet but less than 40,000
2 square feet requires a minimum setback of 140 feet or 70 times the shoreline erosion rate,
3 whichever is greater;
- 4 (E) A building or other structure greater than or equal to 40,000 square feet but less than 60,000
5 square feet requires a minimum setback of 150 feet or 75 times the shoreline erosion rate,
6 whichever is greater;
- 7 (F) A building or other structure greater than or equal to 60,000 square feet but less than 80,000
8 square feet requires a minimum setback of 160 feet or 80 times the shoreline erosion rate,
9 whichever is greater;
- 10 (G) A building or other structure greater than or equal to 80,000 square feet but less than
11 100,000 square feet requires a minimum setback of 170 feet or 85 times the shoreline
12 erosion rate, whichever is greater;
- 13 (H) A building or other structure greater than or equal to 100,000 square feet requires a
14 minimum setback of 180 feet or 90 times the shoreline erosion rate, whichever is greater;
- 15 (I) Infrastructure that is linear in nature, such as roads, bridges, pedestrian access such as
16 boardwalks and sidewalks, and utilities providing for the transmission of electricity, water,
17 telephone, cable television, data, storm water, and sewer requires a minimum setback of
18 60 feet or 30 times the shoreline erosion rate, whichever is greater;
- 19 (J) Parking lots greater than or equal to 5,000 square feet require a setback of 120 feet or 60
20 times the shoreline erosion rate, whichever is greater;
- 21 (K) Notwithstanding any other setback requirement of this Subparagraph, a building or other
22 structure greater than or equal to 5,000 square feet in a community with a static line
23 exception in accordance with 15A NCAC 07J .1200 requires a minimum setback of 120
24 feet or 60 times the shoreline erosion rate in place at the time of permit issuance, whichever
25 is greater. The setback shall be measured landward from either the static vegetation line,
26 the vegetation line, or measurement line, whichever is farthest landward; and
- 27 (L) Notwithstanding any other setback requirement of this Subparagraph, replacement of
28 single-family or duplex residential structures with a total floor area greater than 5,000
29 square feet, and commercial and multi-family residential structures with a total floor area
30 no greater than 10,000 square feet, shall be allowed provided that the structure meets the
31 following criteria:
- 32 (i) the structure was originally constructed prior to August 11, 2009;
- 33 (ii) the structure as replaced does not exceed the original footprint or square footage;
- 34 (iii) it is not possible for the structure to be rebuilt in a location that meets the ocean
35 hazard setback criteria required under Subparagraph (a)(5) of this Rule;
- 36 (iv) the structure as replaced meets the minimum setback required under Part (a)(5)(A)
37 of this Rule; and

1 (v) the structure is rebuilt as far landward on the lot as feasible.

- 2 (6) If a primary dune exists in the AEC on or landward of the lot where the development is proposed,
3 the development shall be landward of the crest of the primary dune, the ocean hazard setback, or
4 development line, whichever is farthest from vegetation line, static vegetation line, or measurement
5 line, whichever is applicable. For existing lots, however, where setting the development landward
6 of the crest of the primary dune would preclude any practical use of the lot, development may be
7 located oceanward of the primary dune. In such cases, the development may be located landward of
8 the ocean hazard setback, but shall not be located on or oceanward of a frontal dune or the
9 development line. The words "existing lots" in this Rule shall mean a lot or tract of land that, as of
10 June 1, 1979, is specifically described in a recorded plat and cannot be enlarged by combining the
11 lot or tract of land with a contiguous lot or tract of land under the same ownership.
- 12 (7) If no primary dune exists, but a frontal dune does exist in the AEC on or landward of the lot where
13 the development is proposed, the development shall be set landward of the frontal dune, ocean
14 hazard setback, or development line, whichever is farthest from the vegetation line, static vegetation
15 line, or measurement line, whichever is applicable.
- 16 (8) If neither a primary nor frontal dune exists in the AEC on or landward of the lot where development
17 is proposed, the structure shall be landward of the ocean hazard setback or development line,
18 whichever is more restrictive.
- 19 (9) Structural additions or increases in the footprint or total floor area of a building or structure represent
20 expansions to the total floor area and shall meet the setback requirements established in this Rule
21 and 15A NCAC 07H .0309(a). New development landward of the applicable setback may be
22 cosmetically, but shall not be structurally, attached to an existing structure that does not conform
23 with current setback requirements.
- 24 (10) Established common law and statutory public rights of access to and use of public trust lands and
25 waters in ocean hazard areas shall not be eliminated or restricted. Development shall not encroach
26 upon public accessways, nor shall it limit the intended use of the accessways.
- 27 (11) Development setbacks in areas that have received large-scale beach fill as defined in 15A NCAC
28 07H .0305 shall be measured landward from the static vegetation line as defined in this Section,
29 unless a development line has been approved by the Coastal Resources Commission in accordance
30 with 15A NCAC 07J .1300.
- 31 (12) In order to allow for development landward of the large-scale beach fill project that cannot meet the
32 setback requirements from the static vegetation line, but can or has the potential to meet the setback
33 requirements from the vegetation line set forth in Subparagraphs (a)(1) and (a)(5) of this Rule, a
34 local government, group of local governments involved in a regional beach fill project, or qualified
35 "owners' association" as defined in G.S. 47F-1-103(3) that has the authority to approve the locations
36 of structures on lots within the territorial jurisdiction of the association and has jurisdiction over at
37 least one mile of ocean shoreline, may petition the Coastal Resources Commission for a "static line

1 exception" in accordance with 15A NCAC 07J .1200. The static line exception shall apply to
2 development of property that lies both within the jurisdictional boundary of the petitioner and the
3 boundaries of the large-scale beach fill project. This static line exception shall also allow
4 development greater than 5,000 square feet to use the setback provisions defined in Part (a)(5)(K)
5 of this Rule in areas that lie within the jurisdictional boundary of the petitioner, and the boundaries
6 of the large-scale beach fill project. If the request is approved, the Coastal Resources Commission
7 shall allow development setbacks to be measured from a vegetation line that is oceanward of the
8 static vegetation line under the following conditions:

9 (A) Development meets all setback requirements from the vegetation line defined in
10 Subparagraphs (a)(1) and (a)(5) of this Rule;

11 (B) Development setbacks shall be calculated from the shoreline erosion rate in place at the
12 time of permit issuance;

13 (C) No portion of a building or structure, including roof overhangs and elevated portions that
14 are cantilevered, knee braced, or otherwise extended beyond the support of pilings or
15 footings, extends oceanward of the landward-most adjacent building or structure. When
16 the configuration of a lot precludes the placement of a building or structure in line with the
17 landward-most adjacent building or structure, an average line of construction shall be
18 determined by the Division of Coastal Management on a case-by-case basis in order to
19 determine an ocean hazard setback that is landward of the vegetation line, a distance no
20 less than 30 times the shoreline erosion rate or 60 feet, whichever is greater;

21 (D) With the exception of swimming pools, the development defined in Rule .0309(a) of this
22 Section shall be allowed oceanward of the static vegetation line; and

23 (E) Development shall not be eligible for the exception defined in Rule .0309(b) of this
24 Section.

25 (b) No development shall be permitted that involves the removal or relocation of primary or frontal dune sand or
26 vegetation thereon that would adversely affect the integrity of the dune. Other dunes within the ocean hazard area
27 shall not be disturbed unless the development of the property is otherwise impracticable. Any disturbance of these
28 other dunes shall be allowed only to the extent permitted by 15A NCAC 07H .0308(b).

29 (c) Development shall not cause irreversible damage to historic architectural or archaeological resources as
30 documented by the local historic commission, the North Carolina Department of Natural and Cultural Resources, or
31 the National Historical Registry.

32 (d) Development shall comply with minimum lot size and set back requirements established by local regulations.

33 (e) Mobile homes shall not be placed within the high hazard flood area unless they are within mobile home parks
34 existing as of June 1, 1979.

35 (f) Development shall comply with the general management objective for ocean hazard areas set forth in 15A NCAC
36 07H .0303.

1 (g) Development shall not interfere with legal access to, or use of, public resources, nor shall such development
2 increase the risk of damage to public trust areas.

3 (h) Development proposals shall incorporate measures to avoid or minimize adverse impacts of the project. These
4 measures shall be implemented at the applicant's expense and may include actions that:

5 (1) minimize or avoid adverse impacts by limiting the magnitude or degree of the action;

6 (2) restore the affected environment; or

7 (3) compensate for the adverse impacts by replacing or providing substitute resources.

8 (i) Prior to the issuance of any permit for development in the ocean hazard AECs, there shall be a written
9 acknowledgment from the applicant to the Division of Coastal Management that the applicant is aware of the risks
10 associated with development in this hazardous area and the limited suitability of this area for permanent structures.
11 The acknowledgement shall state that the Coastal Resources Commission does not guarantee the safety of the
12 development and assumes no liability for future damage to the development.

13 (j) All relocation of structures shall require permit approval. Structures relocated with public funds shall comply with
14 the applicable setback line and other applicable AEC rules. Structures, including septic tanks and other essential
15 accessories, relocated entirely with non-public funds shall be relocated the maximum feasible distance landward of
16 the present location. Septic tanks shall not be located oceanward of the primary structure. All relocation of structures
17 shall meet all other applicable local and state rules.

18 (k) Permits shall include the condition that any structure shall be relocated or dismantled when it becomes imminently
19 threatened by changes in shoreline configuration as defined in 15A NCAC 07H .0308(a)(2)(B). Any such structure
20 shall be relocated or dismantled within two years of the time when it becomes imminently threatened, and in any case
21 upon its collapse or subsidence. However, if natural shoreline recovery or beach fill takes place within two years of
22 the time the structure becomes imminently threatened, so that the structure is no longer imminently threatened, then
23 it need not be relocated or dismantled at that time. This permit condition shall not affect the permit holder's right to
24 seek authorization of temporary protective measures allowed pursuant to 15A NCAC 07H .0308(a)(2).

25
26 *History Note: Authority G.S. 113A-107; 113A-113(b)(6); 113A-124;*
27 *Eff. September 9, 1977;*
28 *Amended Eff. December 1, 1991; March 1, 1988; September 1, 1986; December 1, 1985;*
29 *RRC Objection due to ambiguity Eff. January 24, 1992;*
30 *Amended Eff. March 1, 1992;*
31 *RRC Objection due to ambiguity Eff. May 21, 1992;*
32 *Amended Eff. February 1, 1993; October 1, 1992; June 19, 1992;*
33 *RRC Objection due to ambiguity Eff. May 18, 1995;*
34 *Amended Eff. August 11, 2009; April 1, 2007; November 1, 2004; June 27, 1995;*
35 *Temporary Amendment Eff. January 3, 2013;*
36 *Amended Eff. September 1, 2017; February 1, 2017; April 1, 2016; September 1, 2013;*
37 *Readopted Eff. October 1, 2020.*

1 15A NCAC 07H .0308 is readopted as published in 34:09 NCR 757 as follows:

2
3 **15A NCAC 07H .0308 SPECIFIC USE STANDARDS FOR OCEAN HAZARD AREAS**

4 (a) Ocean Shoreline Erosion Control Activities:

5 (1) Use Standards Applicable to all Erosion Control Activities:

- 6 (A) All oceanfront erosion response activities shall be consistent with the general policy
7 statements in 15A NCAC 07M .0200.
- 8 (B) Permanent erosion control structures may cause significant adverse impacts on the value
9 and enjoyment of adjacent properties or public access to and use of the ocean beach, and,
10 therefore, unless specifically authorized under the Coastal Area Management Act, are
11 prohibited. Such structures include bulkheads, seawalls, revetments, jetties, groins and
12 breakwaters.
- 13 (C) Rules concerning the use of oceanfront erosion response measures apply to all oceanfront
14 properties without regard to the size of the structure on the property or the date of its
15 construction.
- 16 (D) Shoreline erosion response projects shall not be constructed in beach or estuarine areas that
17 sustain substantial habitat for fish and wildlife species, as identified by natural resource
18 agencies during project review, unless mitigation measures are incorporated into project
19 design, as set forth in Rule .0306(h) of this Section.
- 20 (E) Project construction shall be timed to minimize adverse effects on biological activity.
- 21 (F) Prior to completing any erosion response project, all exposed remnants of or debris from
22 failed erosion control structures must be removed by the permittee.
- 23 (G) Permanent erosion control structures that would otherwise be prohibited by these standards
24 may be permitted on finding by the Division that:
- 25 (i) the erosion control structure is necessary to protect a bridge that provides the only
26 existing road access on a barrier island, that is vital to public safety, and is
27 imminently threatened by erosion as defined in Part (a)(2)(B) of this Rule;
- 28 (ii) the erosion response measures of relocation, beach nourishment or temporary
29 stabilization are not adequate to protect public health and safety; and
- 30 (iii) the proposed erosion control structure will have no adverse impacts on adjacent
31 properties in private ownership or on public use of the beach.
- 32 (H) Structures that would otherwise be prohibited by these standards may also be permitted on
33 finding by the Division that:
- 34 (i) the structure is necessary to protect a state or federally registered historic site that
35 is imminently threatened by shoreline erosion as defined in Part (a)(2)(B) of this
36 Rule;

- 1 (ii) the erosion response measures of relocation, beach nourishment or temporary
2 stabilization are not adequate and practicable to protect the site;
- 3 (iii) the structure is limited in extent and scope to that necessary to protect the site; and
- 4 (iv) a permit for a structure under this Part may be issued only to a sponsoring public
5 agency for projects where the public benefits outweigh the significant adverse
6 impacts. Additionally, the permit shall include conditions providing for mitigation
7 or minimization by that agency of significant adverse impacts on adjoining
8 properties and on public access to and use of the beach.
- 9 (I) Structures that would otherwise be prohibited by these standards may also be permitted on
10 finding by the Division that:
- 11 (i) the structure is necessary to maintain an existing commercial navigation channel
12 of regional significance within federally authorized limits;
- 13 (ii) dredging alone is not practicable to maintain safe access to the affected channel;
- 14 (iii) the structure is limited in extent and scope to that necessary to maintain the
15 channel;
- 16 (iv) the structure shall not have significant adverse impacts on fisheries or other public
17 trust resources; and
- 18 (v) a permit for a structure under this Part may be issued only to a sponsoring public
19 agency for projects where the public benefits outweigh the significant adverse
20 impacts. Additionally, the permit shall include conditions providing for mitigation
21 or minimization by that agency of any significant adverse impacts on adjoining
22 properties and on public access to and use of the beach.
- 23 (J) The Commission may renew a permit for an erosion control structure issued pursuant to a
24 variance granted by the Commission prior to 1 July 1995. The Commission may authorize
25 the replacement of a permanent erosion control structure that was permitted by the
26 Commission pursuant to a variance granted by the Commission prior to 1 July 1995 if the
27 Commission finds that:
- 28 (i) the structure will not be enlarged beyond the dimensions set out in the permit;
- 29 (ii) there is no practical alternative to replacing the structure that will provide the same
30 or similar benefits; and
- 31 (iii) the replacement structure will comply with all applicable laws and with all rules,
32 other than the rule or rules with respect to which the Commission granted the
33 variance, that are in effect at the time the structure is replaced.
- 34 (K) Proposed erosion response measures using innovative technology or design shall be
35 considered as experimental and shall be evaluated on a case-by-case basis to determine
36 consistency with 15A NCAC 07M .0200 and general and specific use standards within this
37 Section.

1 (2) Temporary Erosion Control Structures:

2 (A) Permittable temporary erosion control structures shall be limited to sandbags placed
3 landward of mean high water and parallel to the shore.

4 (B) Temporary erosion control structures as defined in Part (A) of this Subparagraph may be
5 used to protect only imminently threatened roads and associated right of ways, and
6 buildings and their associated septic systems. A structure is considered imminently
7 threatened if its foundation, septic system, or right-of-way in the case of roads, is less than
8 20 feet away from the erosion scarp. Buildings and roads located more than 20 feet from
9 the erosion scarp or in areas where there is no obvious erosion scarp may also be found to
10 be imminently threatened when site conditions, such as a flat beach profile or accelerated
11 erosion, increase the risk of imminent damage to the structure.

12 (C) Temporary erosion control structures shall be used to protect only the principal structure
13 and its associated septic system, but not appurtenances such as pools, gazebos, decks or
14 any amenity that is allowed under Rule .0309 of this Section as an exception to the erosion
15 setback requirement.

16 (D) Temporary erosion control structures may be placed waterward of a septic system when
17 there is no alternative to relocate it on the same or adjoining lot so that it is landward of or
18 in line with the structure being protected.

19 (E) Temporary erosion control structures shall not extend more than 20 feet past the sides of
20 the structure to be protected except to align with temporary erosion control structures on
21 adjacent properties, where the Division has determined that gaps between adjacent erosion
22 control structures may result in an increased risk of damage to the structure to be protected.
23 The landward side of such temporary erosion control structures shall not be located more
24 than 20 feet waterward of the structure to be protected, or the right-of-way in the case of
25 roads. If a building or road is found to be imminently threatened and at an increased risk
26 of imminent damage due to site conditions such as a flat beach profile or accelerated
27 erosion, temporary erosion control structures may be located more than 20 feet waterward
28 of the structure being protected. In cases of increased risk of imminent damage, the location
29 of the temporary erosion control structures shall be determined by the Director of the
30 Division of Coastal Management or the Director's designee in accordance with Part (A) of
31 this Subparagraph.

32 (F) Temporary erosion control structures may remain in place for up to eight years for a
33 building and its associated septic system, a bridge or a road. The property owner shall be
34 responsible for removal of any portion of the temporary erosion control structure exposed
35 above grade within 30 days of the end of the allowable time period.

36 (G) An imminently threatened structure or property may be protected only once, regardless of
37 ownership, unless the threatened structure or property is located in a community that is

1 actively pursuing a beach nourishment project, or an inlet relocation or stabilization project
2 in accordance with Part (H) of this Subparagraph. Existing temporary erosion control
3 structures may be permitted for additional eight-year periods provided that the structure or
4 property being protected is still imminently threatened, the temporary erosion control
5 structure is in compliance with requirements of this Subchapter, and the community in
6 which it is located is actively pursuing a beach nourishment or an inlet relocation or
7 stabilization project in accordance with Part (H) of this Subparagraph. In the case of a
8 building, a temporary erosion control structure may be extended, or new segments
9 constructed, if additional areas of the building become imminently threatened. Where
10 temporary structures are installed or extended incrementally, the time period for removal
11 under Part (F) or (H) of this Subparagraph shall begin at the time the initial erosion control
12 structure was installed. For the purpose of this Rule:

- 13 (i) a building and its septic system shall be considered separate structures,
- 14 (ii) a road or highway may be incrementally protected as sections become imminently
15 threatened. The time period for removal of each contiguous section of temporary
16 erosion control structure shall begin at the time that the initial section was
17 installed, in accordance with Part (F) of this Subparagraph.

18 (H) For purposes of this Rule, a community is considered to be actively pursuing a beach
19 nourishment or an inlet relocation or stabilization project in accordance with G.S. 113A-
20 115.1 if it:

- 21 (i) has been issued an active CAMA permit, where necessary, approving such
22 project; or
- 23 (ii) has been identified by a U.S. Army Corps of Engineers' Beach Nourishment
24 Reconnaissance Study, General Reevaluation Report, Coastal Storm Damage
25 Reduction Study, or an ongoing feasibility study by the U.S. Army Corps of
26 Engineers and a commitment of local or federal money, when necessary; or
- 27 (iii) has received a favorable economic evaluation report on a federal project; or
- 28 (iv) is in the planning stages of a project designed by the U.S. Army Corps of
29 Engineers or persons meeting applicable State occupational licensing
30 requirements and initiated by a local government or community with a
31 commitment of local or state funds to construct the project or the identification of
32 the financial resources or funding bases necessary to fund the beach nourishment,
33 inlet relocation or stabilization project.

34 If beach nourishment, inlet relocation or stabilization is rejected by the sponsoring agency
35 or community, or ceases to be actively planned for a section of shoreline, the time extension
36 is void for that section of beach or community and existing sandbags are subject to all
37 applicable time limits set forth in Part (F) of this Subparagraph.

- 1 (I) Once a temporary erosion control structure is determined by the Division of Coastal
2 Management to be unnecessary due to relocation or removal of the threatened structure, it
3 shall be removed to the maximum extent practicable by the property owner within 30 days
4 of official notification from the Division of Coastal Management regardless of the time
5 limit placed on the temporary erosion control structure. If the temporary erosion control
6 structure is determined by the Division of Coastal Management to be unnecessary due to
7 the completion of a storm protection project constructed by the U.S. Army Corps of
8 Engineers, a large-scale beach nourishment project, or an inlet relocation or stabilization
9 project, any portion of the temporary erosion control structure exposed above grade shall
10 be removed by the property owner within 30 days of official notification from the Division
11 of Coastal Management regardless of the time limit placed on the temporary erosion control
12 structure.
- 13 (J) Removal of temporary erosion control structures is not required if they are covered by sand.
14 Any portion of the temporary erosion control structure that becomes exposed above grade
15 after the expiration of the permitted time period shall be removed by the property owner
16 within 30 days of official notification from the Division of Coastal Management.
- 17 (K) The property owner shall be responsible for the removal of remnants of all portions of any
18 damaged temporary erosion control structure.
- 19 (L) Sandbags used to construct temporary erosion control structures shall be tan in color and
20 three to five feet wide and seven to 15 feet long when measured flat. Base width of the
21 temporary erosion control structure shall not exceed 20 feet, and the total height shall not
22 exceed six feet, as measured from the bottom of the lowest bag.
- 23 (M) Soldier pilings and other types of devices to anchor sandbags shall not be allowed.
- 24 (N) Existing sandbag structures may be repaired or replaced within their originally permitted
25 dimensions during the time period allowed under Part (F) or (G) of this Subparagraph.
- 26 (3) Beach Nourishment. Sand used for beach nourishment shall be compatible with existing grain size
27 and in accordance with Rule .0312 of this Section.
- 28 (4) Beach Bulldozing. Beach bulldozing (defined as the process of moving natural beach material from
29 any point seaward of the first line of stable vegetation to create a protective sand dike or to obtain
30 material for any other purpose) is development and may be permitted as an erosion response if the
31 following conditions are met:
- 32 (A) The area on which this activity is being performed shall maintain a slope of adequate grade
33 so as to not endanger the public or the public's use of the beach and shall follow the pre-
34 emergency slope as closely as possible. The movement of material utilizing a bulldozer,
35 front end loader, backhoe, scraper, or any type of earth moving or construction equipment
36 shall not exceed one foot in depth measured from the pre-activity surface elevation;

- 1 (B) The activity shall not exceed the lateral bounds of the applicant's property unless he has
- 2 permission of the adjoining land owner(s);
- 3 (C) Movement of material from seaward of the mean low water line will require a CAMA
- 4 Major Development and State Dredge and Fill Permit;
- 5 (D) The activity shall not increase erosion on neighboring properties and shall not have an
- 6 adverse effect on natural or cultural resources;
- 7 (E) The activity may be undertaken to protect threatened on-site waste disposal systems as well
- 8 as the threatened structure's foundations.

9 (b) Dune Establishment and Stabilization.

- 10 (1) Any new dunes established shall be aligned to the greatest extent possible with existing adjacent
- 11 dune ridges and shall be of the same configuration as adjacent natural dunes.
- 12 (2) Existing primary and frontal dunes shall not, except for beach nourishment and emergency
- 13 situations, be broadened or extended in an oceanward direction.
- 14 (3) Adding to dunes shall be accomplished in such a manner that the damage to existing vegetation is
- 15 minimized. The filled areas shall be replanted or temporarily stabilized until planting can be
- 16 completed.
- 17 (4) Sand used to establish or strengthen dunes shall be of the same general characteristics as the sand
- 18 in the area in which it is to be placed.
- 19 (5) No new dunes shall be created in inlet hazard areas.
- 20 (6) Sand held in storage in any dune, other than the frontal or primary dune, shall remain on the lot or
- 21 tract of land to the maximum extent practicable and may be redistributed within the Ocean Hazard
- 22 AEC provided that it is not placed any farther oceanward than the crest of a primary dune, if present,
- 23 or the crest of a frontal dune.
- 24 (7) No disturbance of a dune area shall be allowed when other techniques of construction can be utilized
- 25 and alternative site locations exist to avoid dune impacts.

26 (c) Structural Accessways:

- 27 (1) Structural accessways shall be permitted across primary or frontal dunes so long as they are designed
- 28 and constructed in a manner that entails negligible alteration of the primary or frontal dune.
- 29 Structural accessways shall not be considered threatened structures for the purpose of Paragraph (a)
- 30 of this Rule.
- 31 (2) An accessway shall be considered to entail negligible alteration of primary or frontal dunes provided
- 32 that:
 - 33 (A) The accessway is exclusively for pedestrian use;
 - 34 (B) The accessway is a maximum of six feet in width;
 - 35 (C) The accessway is raised on posts or pilings of five feet or less depth, so that wherever
 - 36 possible only the posts or pilings touch the dune. Where this is deemed by the Division of

1 Coastal Management to be impossible due to any more restrictive local, state, and/or
2 federal building requirements, the structure shall touch the dune only to the necessary; and

3 (D) Any areas of vegetation that are disturbed are revegetated as soon as feasible.

4 (3) An accessway that does not meet Part (2)(A) and (B) of this Paragraph shall be permitted only if it
5 meets a public purpose or need which cannot otherwise be met and it meets Part (2)(C) of this
6 Paragraph. Public fishing piers are not prohibited provided all other applicable standards of this
7 Rule are met.

8 (4) In order to preserve the protective nature of primary and frontal dunes a structural accessway (such
9 as a "Hatteras ramp") may be provided for off-road vehicle (ORV) or emergency vehicle access.
10 Such accessways shall be no greater than 15 feet in width and may be constructed of wooden
11 sections fastened together, or other materials approved by the Division, over the length of the
12 affected dune area. Installation of a Hatteras ramp shall be done in a manner that will preserve the
13 dune's function as a protective barrier against flooding and erosion by not reducing the volume of
14 the dune.

15 (5) Structural accessways may be constructed no more than six feet seaward of the waterward toe of the
16 frontal or primary dune, provided they do not interfere with public trust rights and emergency access
17 along the beach. Structural accessways are not restricted by the requirement to be landward of the
18 FLSNV as described in Rule .0309(a) of this Section.

19 (d) Building Construction Standards. New building construction and any construction identified in .0306(a)(5) of
20 this Section and 15A NCAC 07J .0210 shall comply with the following standards:

21 (1) In order to avoid danger to life and property, all development shall be designed and placed so as to
22 minimize damage due to fluctuations in ground elevation and wave action in a 100-year storm. Any
23 building constructed within the ocean hazard area shall comply with relevant sections of the North
24 Carolina Building Code including the Coastal and Flood Plain Construction Standards and the local
25 flood damage prevention ordinance as required by the National Flood Insurance Program. If any
26 provision of the building code or a flood damage prevention ordinance is inconsistent with any of
27 the following AEC standards, the more restrictive provision shall control.

28 (2) All building in the ocean hazard area shall be on pilings not less than eight inches in diameter if
29 round or eight inches to a side if square.

30 (3) All pilings shall have a tip penetration greater than eight feet below the lowest ground elevation
31 under the structure. For those structures so located on or seaward of the primary dune, the pilings
32 shall extend to five feet below mean sea level.

33 (4) All foundations shall be designed to be stable during applicable fluctuations in ground elevation and
34 wave forces during a 100-year storm. Cantilevered decks and walkways shall meet the requirements
35 of this Part or shall be designed to break-away without structural damage to the main structure.
36

37 *History Note: Authority G.S. 113A-107(a); 113A-107(b); 113A-113(b)(6)a.,b.,d.; 113A-115.1; 113A-124;*

1 *Eff. June 1, 1979;*
2 *Temporary Amendment Eff. June 20, 1989, for a period of 180 days to expire on December 17,*
3 *1989;*
4 *Amended Eff. August 3, 1992; December 1, 1991; March 1, 1990; December 1, 1989;*
5 *RRC Objection Eff. November 19, 1992 due to ambiguity;*
6 *RRC Objection Eff. January 21, 1993 due to ambiguity;*
7 *Amended Eff. March 1, 1993; December 28, 1992;*
8 *RRC Objection Eff. March 16, 1995 due to ambiguity;*
9 *Amended Eff. April 1, 1999; February 1, 1996; May 4, 1995;*
10 *Temporary Amendment Eff. July 3, 2000; May 22, 2000;*
11 *Amended Eff. April 1, 2019; May 1, 2013; July 1, 2009; April 1, 2008; February 1, 2006; August 1,*
12 *2002;*
13 *Readopted Eff. October 1, 2020.*

1 15A NCAC 07H .0309 is readopted as published in 34:09 NCR 757 as follows:

2
3 **15A NCAC 07H .0309 USE STANDARDS FOR OCEAN HAZARD AREAS: EXCEPTIONS**

4 (a) The following types of development shall be permitted seaward of the oceanfront setback requirements of Rule
5 .0306(a) of this Section if all other provisions of this Subchapter and other state and local regulations are met:

- 6 (1) campsites;
- 7 (2) driveways and parking areas with clay, packed sand, or gravel;
- 8 (3) elevated decks not exceeding a footprint of 500 square feet;
- 9 (4) beach accessways consistent with Rule .0308(c) of this Section;
- 10 (5) unenclosed, uninhabitable gazebos with a footprint of 200 square feet or less;
- 11 (6) uninhabitable, single-story storage sheds with a foundation or floor consisting of wood, clay, packed
12 sand or gravel, and a footprint of 200 square feet or less;
- 13 (7) temporary amusement stands consistent with Section .1900 of this Subchapter;
- 14 (8) sand fences; and
- 15 (9) swimming pools.

16 In all cases, this development shall be permitted only if it is landward of the vegetation line or static vegetation line,
17 whichever is applicable; involves no alteration or removal of primary or frontal dunes which would compromise the
18 integrity of the dune as a protective landform or the dune vegetation; has overwalks to protect any existing dunes; is
19 not essential to the continued existence or use of an associated principal development; is not required to satisfy
20 minimum requirements of local zoning, subdivision or health regulations; and meets all other non-setback
21 requirements of this Subchapter.

22 (b) Where application of the oceanfront setback requirements of Rule .0306(a) of this Section would preclude
23 placement of permanent substantial structures on lots existing as of June 1, 1979, buildings shall be permitted seaward
24 of the applicable setback line in ocean erodible areas and State Ports Inlet Management Areas, but not inlet hazard
25 areas or unvegetated beach areas, if each of the following conditions are met:

- 26 (1) The development is set back from the ocean the maximum feasible distance possible on the existing
27 lot and the development is designed to minimize encroachment into the setback area;
- 28 (2) The development is at least 60 feet landward of the vegetation line or static vegetation line,
29 whichever is applicable;
- 30 (3) The development is not located on or in front of a frontal dune, but is entirely behind the landward
31 toe of the frontal dune;
- 32 (4) The development incorporates each of the following design standards, which are in addition to those
33 required by Rule .0308(d) of this Section.
 - 34 (A) All pilings shall have a tip penetration that extends to at least four feet below mean sea
35 level;
 - 36 (B) The footprint of the structure shall be no more than 1,000 square feet, and the total floor
37 area of the structure shall be no more than 2,000 square feet. For the purpose of this Section,

1 roof-covered decks and porches that are structurally attached shall be included in the
2 calculation of footprint;

3 (C) Driveways and parking areas shall be constructed of clay, packed sand or gravel except in
4 those cases where the development does not abut the ocean and is located landward of a
5 paved public street or highway currently in use. In those cases concrete, asphalt, or
6 turfstone may also be used;

7 (D) No portion of a building's total floor area, including elevated portions that are cantilevered,
8 knee braced or otherwise extended beyond the support of pilings or footings, may extend
9 oceanward of the total floor area of the landward-most adjacent building. When the
10 geometry or orientation of a lot precludes the placement of a building in line with the
11 landward most adjacent structure of similar use, an average line of construction shall be
12 determined by the Division of Coastal Management on a case-by-case basis in order to
13 determine an ocean hazard setback that is landward of the vegetation line, static vegetation
14 line or measurement line, whichever is applicable, a distance no less than 60 feet.

15 (5) All other provisions of this Subchapter and other state and local regulations are met. If the
16 development is to be serviced by an on-site waste disposal system, a copy of a valid permit for such
17 a system shall be submitted as part of the CAMA permit application.

18 (c) The following types of water dependent development shall be permitted seaward of the oceanfront setback
19 requirements of Rule .0306(a) of this Section if all other provisions of this Subchapter and other state and local
20 regulations are met:

21 (1) piers providing public access; and

22 (2) maintenance and replacement of existing state-owned bridges, and causeways and accessways to
23 such bridges.

24 (d) Replacement or construction of a pier house associated with an ocean pier shall be permitted if each of the
25 following conditions is met:

26 (1) The ocean pier provides public access for fishing and other recreational purposes whether on a
27 commercial, public, or nonprofit basis;

28 (2) Commercial, non-water dependent uses of the ocean pier and associated pier house shall be limited
29 to restaurants and retail services. Residential uses, lodging, and parking areas shall be prohibited;

30 (3) The pier house shall be limited to a maximum of two stories;

31 (4) A new pier house shall not exceed a footprint of 5,000 square feet and shall be located landward of
32 mean high water;

33 (5) A replacement pier house may be rebuilt not to exceed its most recent footprint or a footprint of
34 5,000 square feet, whichever is larger;

35 (6) The pier house shall be rebuilt to comply with all other provisions of this Subchapter; and

36 (7) If the pier has been destroyed or rendered unusable, replacement or expansion of the associated pier
37 house shall be permitted only if the pier is being replaced and returned to its original function.

1 (e) In addition to the development authorized under Paragraph (d) of this Rule, small scale, non-essential development
2 that does not induce further growth in the Ocean Hazard Area, such as the construction of single family piers and
3 small scale erosion control measures that do not interfere with natural oceanfront processes, shall be permitted on
4 those non-oceanfront portions of shoreline that exhibit features characteristic of an Estuarine Shoreline. Such features
5 include the presence of wetland vegetation, and lower wave energy and erosion rates than in the adjoining Ocean
6 Erodible Area. Such development shall be permitted under the standards set out in Rule .0208 of this Subchapter. For
7 the purpose of this Rule, small scale is defined as those projects which are eligible for authorization under 15A NCAC
8 07H .1100, .1200 and 15A NCAC 07K .0203.

9 (f) Transmission lines necessary to transmit electricity from an offshore energy-producing facility may be permitted
10 provided that each of the following conditions is met:

11 (1) The transmission lines are buried under the ocean beach, nearshore area, and primary and frontal
12 dunes, all as defined in Rule .0305 of this Section, in such a manner so as to ensure that the
13 placement of the transmission lines involves no alteration or removal of the primary or frontal dunes;
14 and

15 (2) The design and placement of the transmission lines shall be performed in a manner so as not to
16 endanger the public or the public's use of the beach.

17 (g) Existing stormwater outfalls as of the last amended date of this rule within the Ocean Hazard AEC that are owned
18 or maintained by a State agency or local government, may be extended oceanward subject to the provisions contained
19 within 15A NCAC 07J .0200. Outfalls may be extended below mean low water and may be maintained in accordance
20 with 15A NCAC 07K .0103. Shortening or lengthening of outfall structures within the authorized dimensions, in
21 response to changes in beach width, is considered maintenance under 15A NCAC 07K .0103. Outfall extensions may
22 be marked with signage and shall not prevent pedestrian or vehicular access along the beach. This Paragraph does not
23 apply to existing stormwater outfalls that are not owned or maintained by a State agency or local government.

24
25 *History Note:* Authority G.S. 113A-107(a); 113A-107(b); 113A-113(b)(6)a; 113A-113(b)(6)b; 113A-113(b)(6)d;
26 113A-124;

27 *Eff. February 2, 1981;*

28 *Amended Eff. April 1, 2020; June 1, 2010; February 1, 2006; September 17, 2002 pursuant to S.L.*
29 *2002-116; August 1, 2000; August 1, 1998; April 1, 1996; April 1, 1995; February 1, 1993; January*
30 *1, 1991; April 1, 1987;*

31 *Readopted Eff. October 1, 2020.*

REQUEST FOR TECHNICAL CHANGE

AGENCY: Coastal Resources Commission

RULE CITATION: 15A NCAC 07H .0310

DEADLINE FOR RECEIPT: Thursday, September 10, 2020

PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.

The Rules Review Commission staff has completed its review of this Rule prior to the Commission's next meeting. The Commission has not yet reviewed this Rule and therefore there has not been a determination as to whether the Rule will be approved. You may call our office to inquire concerning the staff recommendation.

In reviewing this Rule, the staff recommends the following technical changes be made:

Are (a)(1) through (5) applicable to only Inlet Hazard Areas as referenced in line 5 or to all Inlet Areas referenced in .304? If it's only to Inlet Hazard Areas, why is the first sentence necessary? Here, do you mean something like "Inlet Hazard Areas as defined by Rule .0304 of this Section shall be permitted in accordance with the following:"? Alternatively, do you mean "Ocean hazard AECs as set forth in .0304 of this Section shall be permitted in accordance with the following"? As written, I don't think this Rule's applicability is clear.

In (a)(1), what is considered to be a "line of stable natural vegetation"? Does your regulated public know?

In (b), what setback requirements? Those referenced in Paragraph (a) of this Rule?

In (c), what are considered to be "non-essential"

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May
Commission Counsel
Date submitted to agency: August 31, 2020

1 15A NCAC 07H .0310 is readopted as published in 34:09 NCR 757 as follows:

2
3 **15A NCAC 07H .0310 USE STANDARDS FOR INLET HAZARD AREAS**

4 (a) Inlet areas as defined by Rule .0304 of this Section are subject to inlet migration, rapid and severe changes in
5 watercourses, flooding and strong tides. Due to this extremely hazardous nature of the Inlet Hazard Areas, all
6 development within these areas shall be permitted in accordance with the following standards:

- 7 (1) All development in the inlet hazard area shall be set back from the first line of stable natural
8 vegetation a distance equal to the setback required in the adjacent ocean hazard area;
- 9 (2) Permanent structures shall be permitted at a density of no more than one commercial or residential
10 unit per 15,000 square feet of land area on lots subdivided or created after July 23, 1981;
- 11 (3) Only residential structures of four units or less or non-residential structures of less than 5,000 square
12 feet total floor area shall be allowed within the inlet hazard area, except that access roads to those
13 areas and maintenance and replacement of existing bridges shall be allowed;
- 14 (4) Established common-law and statutory public rights of access to the public trust lands and waters
15 in Inlet Hazard Areas shall not be eliminated or restricted. Development shall not encroach upon
16 public accessways nor shall it limit the intended use of the accessways;
- 17 (5) All other rules in this Subchapter pertaining to development in the ocean hazard areas shall be
18 applied to development within the Inlet Hazard Areas.

19 (b) The inlet hazard area setback requirements shall not apply to the types of development exempted from the ocean
20 setback rules in 15A NCAC 7H .0309(a), nor, to the types of development listed in 15A NCAC 7H .0309(c).

21 (c) In addition to the types of development excepted under Rule .0309 of this Section, small scale, non-essential
22 development that does not induce further growth in the Inlet Hazard Area, such as the construction of single-family
23 piers and small scale erosion control measures that do not interfere with natural inlet movement, may be permitted on
24 those portions of shoreline within a designated Inlet Hazard Area that exhibit features characteristic of Estuarine
25 Shoreline. Such features include the presence of wetland vegetation, lower wave energy, and lower erosion rates than
26 in the adjoining Ocean Erodible Area. Such development shall be permitted under the standards set out in Rule .0208
27 of this Subchapter. For the purpose of this Rule, small scale is defined as those projects which are eligible for
28 authorization under 15A NCAC 7H .1100, .1200 and 7K .0203.

29
30 *History Note: Filed as a Temporary Amendment Eff. October 30, 1981, for a period of 70 days to expire on*
31 *January 8, 1982;*
32 *Filed as an Emergency Rule Eff. September 11, 1981, for a period of 120 days to expire on*
33 *January 8, 1982;*
34 *Authority G.S. 113A-107; 113A-113(b); 113A-124;*
35 *Eff. December 1, 1981;*
36 *Amended Eff. April 1, 1999; April 1, 1996; December 1, 1992; December 1, 1991;*
37 *March 1, 1988;*
38 *Readopted Eff. October 1, 2020.*

REQUEST FOR TECHNICAL CHANGE

AGENCY: Coastal Resources Commission

RULE CITATION: 15A NCAC 07H .0311

DEADLINE FOR RECEIPT: Thursday, September 10, 2020

PLEASE NOTE: This request may extend to several pages. Please be sure you have reached the end of the document.

The Rules Review Commission staff has completed its review of this Rule prior to the Commission's next meeting. The Commission has not yet reviewed this Rule and therefore there has not been a determination as to whether the Rule will be approved. You may call our office to inquire concerning the staff recommendation.

In reviewing this Rule, the staff recommends the following technical changes be made:

What is the intent of (a)? I'm confused by "the protection of the dune(s) and vegetation (planted or existing)" after the semi-colon.

In (d), delete or define "immediately." Is this "immediately following knowledge"?

Please retype the rule accordingly and resubmit it to our office at 1711 New Hope Church Road, Raleigh, North Carolina 27609.

Amber May
Commission Counsel
Date submitted to agency: August 31, 2020

1 15A NCAC 07H .0311 is readopted as published in 34:09 NCR 757 as follows:

2

3 **15A NCAC 07H .0311 INSTALLATION AND MAINTENANCE OF SAND FENCING**

4 (a) Sand fencing may only be installed for the purpose of building sand dunes by trapping wind blown sand; the
5 protection of the dune(s) and vegetation (planted or existing).

6 (b) Sand fencing shall not impede existing public access to the beach, recreational use of the beach, or emergency
7 vehicle access. Sand fencing shall not be installed in a manner that impedes or restricts established common law and
8 statutory rights of public access and use of public trust lands and waters.

9 (c) Sand fencing shall not be installed in a manner that impedes, traps or otherwise endangers sea turtles, sea turtle
10 nests or sea turtle hatchlings. CAMA permit applications for sand fencing shall be subject to review by the Wildlife
11 Resources Commission and the U.S. Fish and Wildlife Service in order to determine whether or not the proposed
12 design or installation will have an adverse impact on sea turtles or other threatened or endangered species.

13 (d) Non-functioning, damaged, or unsecured sand fencing shall be immediately removed by the property owner.

14 (e) Sand fencing shall not be placed on the wet sand beach area.

15

16 *History Note: Authority G.S. 113A-107; 113A-113(b)(6);*

17 *Eff. August 1, 2002;*

18 *Readopted Eff. October 1, 2020.*

1 15A NCAC 07H .0312 is readopted as published in 34:22 NCR 2104 as follows:

2
3 **15A NCAC 07H .0312 TECHNICAL STANDARDS FOR BEACH FILL PROJECTS**

4 Placement of sediment along the oceanfront shoreline is referred to in this Rule as "beach fill." Sediment used solely
5 to establish or strengthen dunes or to re-establish state-maintained transportation corridors across a barrier island
6 breach in a disaster area as declared by the Governor is not considered a beach fill project under this Rule. Beach fill
7 projects including beach nourishment, dredged material disposal, habitat restoration, storm protection, and erosion
8 control may be permitted under the following conditions:

9 (1) The applicant shall characterize the recipient beach according to the following methodology:

10 (a) Characterization of the recipient beach is not required for the placement of sediment
11 directly from and completely confined to a maintained navigation channel or associated
12 sediment basins within the active nearshore, beach or inlet shoal system;

13 (b) Sediment sampling and analysis shall be used to capture the three-dimensional spatial
14 variability of the sediment characteristics including grain size, sorting and mineralogy
15 within the natural system;

16 (c) Shore-perpendicular topographic and bathymetric surveying of the recipient beach shall be
17 conducted to determine the beach profile. Topographic and bathymetric surveying shall
18 occur along a minimum of five shore-perpendicular transects evenly spaced throughout the
19 entire project area. Each transect shall extend from the frontal dune crest seaward to a
20 depth of 20 feet (6.1 meters) or to the shore-perpendicular distance 2,400 feet (732 meters)
21 seaward of mean low water, whichever is in a more landward position. Transect spacing
22 shall not exceed 5,000 feet (1,524 meters) in the shore-parallel direction. Elevation data
23 for all transects shall be referenced to the North American Vertical Datum of 1988 (NAVD
24 88) and the North American Datum of 1983 (NAD 83);

25 (d) No fewer than 13 sediment samples shall be taken along each beach profile transect. At
26 least one sample shall be taken from each of the following morphodynamic zones where
27 present: frontal dune, frontal dune toe, mid berm, mean high water (MHW), mid tide (MT),
28 mean low water (MLW), trough, bar crest and at even depth increments from 6 feet (1.8
29 meters) to 20 feet (6.1 meters) or to a shore-perpendicular distance 2,400 feet (732 meters)
30 seaward of mean low water, whichever is in a more landward position. The total number
31 of samples taken landward of MLW shall equal the total number of samples taken seaward
32 of MLW;

33 (e) For the purpose of this Rule, "sediment grain size categories" are defined as "fine" (less
34 than 0.0625 millimeters), "sand" (greater than or equal to 0.0625 millimeters and less than
35 2 millimeters), "granular" (greater than or equal to 2 millimeters and less than 4.76
36 millimeters) and "gravel" (greater than or equal to 4.76 millimeters and less than 76

- 1 millimeters). Each sediment sample shall report percentage by weight of each of these four
2 grain size categories;
- 3 (f) A composite of the simple arithmetic mean for each of the four grain size categories defined
4 in Sub-Item (1)(e) of this Rule shall be calculated for each transect. A grand mean shall
5 be established for each of the four grain size categories by summing the mean for each
6 transect and dividing by the total number of transects. The value that characterizes grain
7 size values for the recipient beach is the grand mean of percentage by weight for each grain
8 size category defined in Sub-Item (1)(e) of this Rule;
- 9 (g) Percentage by weight calcium carbonate shall be calculated from a composite of all
10 sediment samples along each transect defined in Sub-Item (1)(d) of this Rule. The value
11 that characterizes the carbonate content of the recipient beach is a grand mean calculated
12 by summing the average percentage by weight calcium carbonate for each transect and
13 dividing by the total number of transects. For beaches on which fill activities have taken
14 place prior to the effective date of this Rule, the Division of Coastal Management shall
15 consider visual estimates of shell content as a proxy for carbonate weight percent;
- 16 (h) The total number of sediments and shell material greater than or equal to three inches (76
17 millimeters) in diameter, observable on the surface of the beach between mean low water
18 (MLW) and the frontal dune toe, shall be calculated for an area of 50,000 square feet (4,645
19 square meters) within the beach fill project boundaries. This area is considered a
20 representative sample of the entire project area and referred to as the "background" value;
- 21 (i) Beaches that received sediment prior to the effective date of this Rule shall be characterized
22 in a way that is consistent with Sub-Items (1)(a) through (1)(h) of this Rule and shall use
23 data collected from the recipient beach prior to the addition of beach fill. If such data were
24 not collected or are unavailable, a dataset best reflecting the sediment characteristics of the
25 recipient beach prior to beach fill shall be developed in coordination with the Division of
26 Coastal Management; and
- 27 (j) All data used to characterize the recipient beach shall be provided in digital and hardcopy
28 format to the Division of Coastal Management upon request.
- 29 (2) The applicant shall characterize the sediment to be placed on the recipient beach according to the
30 following methodology:
- 31 (a) The characterization of borrow areas including submarine sites, upland sites, and dredged
32 material disposal areas shall be designed to capture the three-dimensional spatial variability
33 of the sediment characteristics including grain size, sorting and mineralogy within the
34 natural system or dredged material disposal area;
- 35 (b) The characterization of borrow sites shall include sediment characterization data provided
36 by the Division of Coastal Management where available. These data can be found in

1 individual project reports and studies, and shall be provided by the Division of Coastal
2 Management upon request and where available;

3 (c) Seafloor surveys shall measure elevation and capture acoustic imagery of the seafloor.
4 Measurement of seafloor elevation shall cover 100 percent of each submarine borrow site
5 and use survey-grade swath sonar (*e.g.* multibeam or similar technologies) in accordance
6 with current US Army Corps of Engineers standards for navigation and dredging. Seafloor
7 imaging without an elevation component (*e.g.* sidescan sonar or similar technologies) shall
8 also cover 100 percent of each borrow site and be performed in accordance with US Army
9 Corps of Engineers standards for navigation and dredging. Because shallow submarine
10 areas can provide technical challenges and physical limitations for acoustic measurements,
11 seafloor imaging without an elevation component may not be required for water depths
12 less than 10 feet (3 meters). Alternative elevation surveying methods for water depths less
13 than 10 feet (3 meters) may be evaluated on a case-by-case basis by the Division of Coastal
14 Management. Elevation data shall be tide- and motion-corrected and referenced to NAVD
15 88 and NAD 83. Seafloor imaging data without an elevation component shall be referenced
16 to the NAD 83. All final seafloor survey data shall conform to standards for accuracy,
17 quality control and quality assurance as set forth by the US Army Corps of Engineers
18 (USACE). The current surveying standards for navigation and dredging can be obtained
19 from the Wilmington District of the USACE. For offshore dredged material disposal sites,
20 only one set of imagery without elevation is required. Sonar imaging of the seafloor
21 without elevation is not required for borrow sites completely confined to maintained
22 navigation channels, sediment deposition basins within the active nearshore, beach or inlet
23 shoal system;

24 (d) Geophysical imaging of the seafloor subsurface shall be used to characterize each borrow
25 site and shall use survey grids with a line spacing not to exceed 1,000 feet (305 meters).
26 Offshore dredged material disposal sites shall use a survey grid not to exceed 2,000 feet
27 (610 meters) and only one set of geophysical imaging of the seafloor subsurface is required.
28 Survey grids shall incorporate at least one tie point per survey line. Because shallow
29 submarine areas can pose technical challenges and physical limitations for geophysical
30 techniques, subsurface data may not be required in water depths less than 10 feet (3 meters),
31 and the Division of Coastal Management shall evaluate these areas on a case-by-case basis.
32 Subsurface geophysical imaging shall not be required for borrow sites completely confined
33 to maintained navigation channels, sediment deposition basins within the active nearshore,
34 beach or inlet shoal system, or upland sites. All final subsurface geophysical data shall use
35 accurate sediment velocity models for time-depth conversions and be referenced to NAD
36 83;

- 1 (e) Sediment sampling of all borrow sites shall use a vertical sampling device no less than 3
2 inches (76 millimeters) in diameter. Characterization of each borrow site shall use no fewer
3 than five evenly spaced cores or one core per 23 acres (grid spacing of 1,000 feet or 305
4 meters), whichever is greater. Characterization of borrow sites completely confined to
5 maintained navigation channels or sediment deposition basins within the active nearshore,
6 beach or inlet shoal system shall use no fewer than five evenly spaced vertical samples per
7 channel or sediment basin, or sample spacing of no more than 5,000 linear feet (1,524
8 meters), whichever is greater. Two sets of sampling data (with at least one dredging event
9 in between) from maintained navigation channels or sediment deposition basins within the
10 active nearshore, beach or inlet shoal system may be used to characterize material for
11 subsequent nourishment events from those areas if the sampling results are found to be
12 compatible with Sub-Item (3)(a) of this Rule. In submarine borrow sites other than
13 maintained navigation channels or associated sediment deposition basins within the active
14 nearshore, beach or inlet shoal system where water depths are no greater than 10 feet (3
15 meters), geophysical data of and below the seafloor are not required, and sediment sample
16 spacing shall be no less than one core per six acres (grid spacing of 500 feet or 152 meters).
17 Vertical sampling shall penetrate to a depth equal to or greater than permitted dredge or
18 excavation depth or expected dredge or excavation depths for pending permit applications.
19 All sediment samples shall be integrated with geophysical data to constrain the surficial,
20 horizontal and vertical extent of lithologic units and determine excavation volumes of
21 compatible sediment as defined in Item (3) of this Rule;
- 22 (f) For offshore dredged material disposal sites, the grid spacing shall not exceed 2,000 feet
23 (610 meters). Characterization of material deposited at offshore dredged material disposal
24 sites after the initial characterization are not required if all of the material deposited
25 complies with Sub-Item (3)(a) of this Rule as demonstrated by at least two sets of sampling
26 data with at least one dredging event in between;
- 27 (g) Grain size distributions shall be reported for all sub-samples taken within each vertical
28 sample for each of the four grain size categories defined in Sub-Item (1)(e) of this Rule.
29 Weighted averages for each core shall be calculated based on the total number of samples
30 and the thickness of each sampled interval. A simple arithmetic mean of the weighted
31 averages for each grain size category shall be calculated to represent the average grain size
32 values for each borrow site. Vertical samples shall be geo-referenced and digitally imaged
33 using scaled, color-calibrated photography;
- 34 (h) Percentage by weight of calcium carbonate shall be calculated from a composite sample of
35 each core. A weighted average of calcium carbonate percentage by weight shall be
36 calculated for each borrow site based on the composite sample thickness of each core.
37 Carbonate analysis is not required for sediment confined to maintained navigation channels

1 or associated sediment deposition basins within the active nearshore, beach or inlet shoal
2 system; and

3 (i) All data used to characterize the borrow site shall be provided in digital and hardcopy
4 format to the Division of Coastal Management upon request.

5 (3) The Division of Coastal Management shall determine sediment compatibility according to the
6 following criteria:

7 (a) Sediment completely confined to the permitted dredge depth of a maintained navigation
8 channel or associated sediment deposition basins within the active nearshore, beach or inlet
9 shoal system is considered compatible if the average percentage by weight of fine-grained
10 (less than 0.0625 millimeters) sediment is less than 10 percent;

11 (b) The average percentage by weight of fine-grained sediment (less than 0.0625 millimeters)
12 in each borrow site shall not exceed the average percentage by weight of fine-grained
13 sediment of the recipient beach characterization plus five percent;

14 (c) The average percentage by weight of granular sediment (greater than or equal to 2
15 millimeters and less than 4.76 millimeters) in a borrow site shall not exceed the average
16 percentage by weight of coarse-sand sediment of the recipient beach characterization plus
17 10 percent;

18 (d) The average percentage by weight of gravel (greater than or equal to 4.76 millimeters and
19 less than 76 millimeters) in a borrow site shall not exceed the average percentage by weight
20 of gravel-sized sediment for the recipient beach characterization plus five percent;

21 (e) The average percentage by weight of calcium carbonate in a borrow site shall not exceed
22 the average percentage by weight of calcium carbonate of the recipient beach
23 characterization plus 15 percent; and

24 (f) Techniques that take incompatible sediment within a borrow site or combination of sites
25 and make it compatible with that of the recipient beach characterization shall be evaluated
26 on a case-by-case basis by the Division of Coastal Management.

27 (4) Excavation and placement of sediment shall conform to the following criteria:

28 (a) Sediment excavation depths for all borrow sites shall not exceed the maximum depth of
29 recovered core at each coring location;

30 (b) In order to protect threatened and endangered species, and to minimize impacts to fish,
31 shellfish and wildlife resources, no excavation or placement of sediment shall occur within
32 the project area during times designated by the Division of Coastal Management in
33 consultation with other State and Federal agencies. The time limitations shall be established
34 during the permitting process and shall be made known prior to permit issuance; and

35 (c) Sediment and shell material with a diameter greater than or equal to three inches (76
36 millimeters) is considered incompatible if it has been placed on the beach during the beach
37 fill project, is observed between MLW and the frontal dune toe, and is in excess of twice

1 the background value of material of the same size along any 50,000-square-foot (4,645
2 square meter) section of beach.

3
4 *History Note:* *Authority G.S. 113-229; 113A-102(b)(1); 113A-103(5)(a); 113A-107(a); 113A-113(b)(5) and (6);*
5 *113A-118; 113A-124;*
6 *Eff. February 1, 2007;*
7 *Amended Eff. August 1, 2014; September 1, 2013; April 1, 2008;*
8 *Readopted Eff. October 1, 2020.*