whichever angle is smallest, equal to or
greater than—
(1) 15 foot-degrees (4.57 meter-de-
grees) for ocean and Great Lakes win-
ter service; and
(2) 10 foot-degrees (3.05 meter-de-
grees) for lakes, bays, sounds, and
Great Lakes summer service.
(b) For the purpose of this section,
downflooding angle means the static
angle from the intersection of the ves-
sel’s centerline and waterline in calm
water to the first opening that does not
close watertight automatically.

§ 174.020 Alternate intact stability cri-
terion.
A barge need not comply with
§ 174.015 and subparts C and E of part
170 of this chapter if it has the fol-
lowing characteristics:
(a) The weather deck is watertight.
(b) The barge’s hull proportions fall
within any one of the ratios in cat-
egories (A) through (D) in Table 174.020.
(c) The maximum cargo height is 30
feet (9.25 meters) or a value equal to
the depth of the barge amidships,
whichever is less.

<table>
<thead>
<tr>
<th>Category</th>
<th>Beam/depth ratio</th>
<th>Draft/depth ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3.00 to 3.74</td>
<td>Equal to or less than 0.70</td>
</tr>
<tr>
<td>B</td>
<td>3.75 to 3.99</td>
<td>Equal to or less than 0.72</td>
</tr>
<tr>
<td>C</td>
<td>4.00 to 4.49</td>
<td>Equal to or less than 0.76</td>
</tr>
<tr>
<td>D</td>
<td>4.50 to 6.00</td>
<td>Equal to or less than 0.80</td>
</tr>
</tbody>
</table>

Subpart C—Special Rules Per-
taining to Mobile Offshore
Drilling Units

§ 174.030 Specific applicability.
Each mobile offshore drilling unit
(MODU) inspected under Subchapter IA
of this chapter must comply with this
subpart.

§ 174.035 Definitions.
(a) For the purpose of this subpart
the following terms have the same de-
finitions as given in Subchapter IA of
this chapter:
(1) Column stabilized unit.
(2) Mobile offshore drilling unit.
(3) Self-elevating unit.

§ 174.040 Stability requirements: gen-
eral.
Each unit must be designed to have
at least 2 inches (50mm) of positive
metacentric height in the upright equi-
librium position for the full range of
drafts, whether at the operating draft
for navigation, towing, or drilling
afloat, or at a temporary draft when
changing drafts.

§ 174.045 Intact stability requirements.
(a) Each unit must be designed so
that the wind heeling moments (Hm)
and righting moments calculated for
each of its normal operating conditions
and severe storm conditions, when
plotted on GRAPH 174.045, define areas
that satisfy the equation:
\[\text{Area}(A) \geq (K \times \text{Area}(B))\]
where—
(1) \(K=1.4\) except that if the unit is a column
    stabilized unit \(K=1.3\);
(2) Area (A) is the area on GRAPH 174.045
    under the righting moment curve between
    0 and the second intercept angle or the
    angle of heel at which downflooding would
    occur, whichever angle is less; and
(3) Area (B) is the area on GRAPH 174.045
    under the wind heeling moment curve be-
    tween 0 and the second intercept angle or
    the angle of heel at which downflooding of
    the unit would occur whichever angle is
    less.