



# DISTANCE STANDARDS

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One Nautical mile or 1 minute of Latitude = 6,076 ft. [ **01'-00"** ]

One Second of Latitude = 101.3 ft. [ **00'-01.00"** ]

One-tenth of a second of Latitude = 10.1 ft. [ **00'-00.10"** ]

One-thousand of a second of Latitude = 1.0 ft. [ **00'-00.01"** ]

- Floating Lateral PATONs are aids that mark the edges of a navigable channel or fairway. Determine whether a Lateral aid is considered off station by applying the following criteria.
  1. Criteria:
    - a. When the aid is charted, the aid plots outside the charted circle symbol for the Aid on the NOAA chart.
    - b. When the aid not charted but published in the Light List, the Aid should be within 50 feet of the Permitted LAT/LONG. Only report aid is off station by 51 feet or more.
  
- Floating Regulatory and Special Purpose PATONS should be reported as off station based on the PTE – Position Tolerance Estimation System.
  1. Criteria:
    - In a Type 1 situation, AV would report an aid off station when the fix is **76** feet or more from the aid’s permitted position.
    - In a Type 2 situation, AV would report an aid off station when the fix is **101** feet or more from the aid’s permitted position.
    - In a Type 3 situation, AVs would report an aid off station when the fix is **151** feet or more from the aid’s permitted position.

The Position Tolerance Estimation System evaluates three factors:

- A. The Risk Factor – Regulatory private aids is always assigned a **LOW** Risk Factor.
- B. The Area Type – Three Area Types are applied:

Type 1 - Restrictive Area – channels and canals. (75 feet)

Type 2 - Less Restrictive – harbors and coves. (100 feet)

Type 3 - Little Restrictions – coastal and large harbors. (150 feet)