**NORTH AMERICAN INVITATIONAL 2021 CRUISER NAVIGATION CONTEST INSTRUCTIONS**

 August 22, 2021 Edition Ed Denaci

Nautical Charts 18773, 18772, 18765, US5CA71M, US5CA72M latest editions apply.

**RADAR is allowed and use is encouraged. GPS is not allowed during the contest.**

**Use of stored electronic charts is allowed. Position of the boat, time, speed, heading, tracking and/or any other performance related information from any source on the charts or the computer is not allowed during the contest. The computer may not be “on line” during the contest.**

**The entire course is DIRECT.**

**Start:** G “15” (Fl G 2.5s) Execute a standing start. Leave within 25 yards to starboard.

Proceed on plotted heading to RP1.

RP1: G “7”(Fl G 4s) Leave within 25 yards to starboard.

**CHECK POINT 1:** R “6”: (Fl R 4s): Leave within 25 yards to port. Start a timer and proceed on heading to the S Cupola Coronado Hotel for 2.051 nm at 44° M.

BLIND POINT 1: 2.051 nm @ 44° M. When predicted time elapses, immediately turn to starboard on heading to RP2.

RP2: L/L (32°39.254’N/117°10.083’W) RP2 is attained on a heading of 121° M and the Black Diamond Marker abeam to port.

**CHECK POINT 2**: L/L (32°37.658/117°09.059’W) On a heading to the “Antenna Array”, Check Point 2 is attained when the Lookout Tower bears abeam to port.

**CHECK POINT 3:** L/L (32°37.422’N/117°13.264’W) is attained when R “4” bears abeam to Starboard while heading to RW “SD” Mo (A) WHIS RACON (\_ \_).

RP3: G”3” (Fl G 6s) Leave within 25 yards to port.

RP4: G”5” (Fl G 2.5s) Leave within 25 yards to port.

RP5: R”8” (Fl R 2.5s) Leave within 25 yards to starboard.

**CHECK POINT 4:** L/L (32°40.421’N/117 °13.742’W) is attained on SD Bay Entrance Range Heading

341.8° M when mid channel between G”9” and R”10”.

RP6: L/L (32°42.083’N/117°13.983’W) is attained on SD Bay Entrance Range when R “16” bears abeam to starboard.

RP7: R”18” (Fl R 4s) Leave within 25 yards to starboard.

**CHECK POINT 5:** L/L (32°43.380’N/117°12.625’W) is attained on heading to FLAGPOLE (CENTER OF THREE) when Harbor Island West End Mile Markers range in line.

RP8: R “20” (Q R) Leave within 25 yards to starboard.

RP9: L/L (32°43.215’N/117°11.623’W) is attained when on heading to buoy N19 (W Fl 4s NAVY) and G”21” (QG) and AERO Rotating W&G range to starboard.

RP10: L/L (32°41.394’N/117°09.189’W) is attained under the midpoint of Bridge Piers 18 and 19. (RACON (-)).

**CHECK POINT 6:** L/L:(32°41.234’N/117°09.186’W) is attained when on heading to G”1” (Fl G 4s) and Glorietta Bay Entrance Range is established to starboard.

RP11: R “26A” (Fl R 6s) Leave within 25 yards to port.

RP12: L/L ( 32°40.273’N/117°07.803’W) is attained when on a heading to R”30” (Fl R 4s) and south side of Pier 7 ranges to port.

RP13: R “34” (Fl R 2.5s) Leave within 25 yards to port. Start a timer and proceed on heading to 235° M.

BLIND POINT 2: 0.330 nm @ 235° M. When predicted time elapses, turn immediately to port heading to Check Point 7.

**CHECK POINT 7:** L/L (32°38.488’N/117°07.902’W) is attained on a heading to “C” (Fl 4s 11 ft “C” Priv) and when Channel Buoys R ”40” and G “39” range to port.

RP14: R “40” (Fl R 4s) Leave within 25 yards to port.

RP15: R “38” (Fl R 2.5s) Leave within 25 yards to port.

RP16: L/L (32°40.345’N/117°07.681’W) is attained when south side of Navy Pier 7 ranges to starboard. See notes below.

RP17: L/L (32°40.951’N/117°08.275’W) is attained when south side of Navy Pier 1 ranges to starboard. See notes below.

**CHECK POINT 8:** San Diego - Coronado Bay Bridge Pier 20. Leave to starboard within 25 to 50 yards.

**CHECK POINT 9**: N19 (W Fl 4s NAVY): Leave within 25 yards to port.

RP18: L/L (32°43.288’N/117°12.034’W) is attained when on heading to sorth tip of land at the entrance to America’s Cup Harbor and the Harbor Island Mid Mile Markers range to starboard.

RP19: G “19“ (QG) Leave within 25 yards to starboard.

**FINISH:** G”17” (Fl G 4s) Leave within 25 yards abeam.

DISTANCE: 34.78 NM. Turns not included.

Notes.

Turns will change some headings and may slightly change some lattitude or longitude locations.

Diamond Marker is located at 32°39.783’N/117°09.510’W.

Flagpole is located at 32°43.493’N/117°12.546’W.

Antenna Array is 5 “telephone poles” with a white building in the “center”. See photo.

“C” Priv is the most western of three bare 10” diameter wooden pole shoal water/protected species habitat markers. Each pole, at one time, had a large capital letter identifying it.

N19 is the very long term local name for (W Fl 4s NAVY).

All numbered buoys in the bay up through G23 are the large “TYPICAL CHANNEL ENTRANCE BUOYS”.

R24 through R40 and Coronado Entrance G1 are the smaller “TYPICAL SOUTH BAY BUOYS”.

The buoy seen between the bridge piers is the Coronado Entrance G1.

Buoy and other chart references are taken from raster charts. Plot lines and locations are taken from vector charts.

Navy Pier numbers are located on the channel edge of the piers and are black numbers on a white background. The numbers roughly face northwest and southeast. Read them as you travel along the channel.

Google Earth has many interesting “on the water” and street views of parts of the course. The contestant is urged to take advantage of the views to become familiar with backgrounds and aimpoints. **Note that you may not be online during the contest!**