

SEARCH PATTERNS (PRECISION)

Select one: PS / CS / TSN / TSR



Member's Name:	Member's Number:
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EVALUATION CRITERIA

Given a Search Action Plan, including area description, pattern description, commence search point (CSP), track spacing, major axis, minor axis, and search speed., execute one of the following precision search patterns.

For drill purposes:

- Complete minimum of three major axis search pattern legs. (Parallel (PS), Creeping Line (CS) only)
- Complete Track Line Non-Return (TSN) and Track Line Return (TSR) in its entirety.
- Facility must have one or more of the following onboard: an operational GPS or Electronic Charting System (ECS) and radio.
- Facility may have a radar.

A drill will automatically be deemed unsatisfactory if any of the following conditions are met: (S)

- Jeopardizing safety of passengers and crew (i.e., Engine Cutoff Switch, jewelry, etc.)
- Unsafe operation or navigation of the boat
- Failure to wear and use serviceable crew safety and survival equipment.
- Failure to properly assign and utilize crewmembers.
- Failure to use applicable operational risk management and updating as necessary.

All steps (as applicable) with an (S) must be performed.

PREPARATIONS

(S) Brief crew on mission.

(S) Assign lookouts, coordinate their areas of responsibility, and provide target description.

Lay out search pattern correctly on chart with CSP in the proper location and orient the first leg in the correct direction for each pattern. **NOTE: Chart is only required if available for operating area. If the facility has an Electronic Charting System, use of a paper chart is not required.**

(S) If facility has an Electronic Charting System create a route, enter turn points, and CSP into system.

(S) If facility has an operational GPS create a route, enter turn points, and CSP into system.

(S) Ensure no part of the search pattern will create a navigation hazard to facility. i.e.: shoal water, land, Aids to Navigation, etc.

Open windows (if installed), as necessary.

SEARCH PATTERN EXECUTION

(S) Advise Unit/SMC of on scene WX and start time of pattern.

(S) Operate vessel IAW Navigation Rules & Regulations (lights, sound signals, etc.).

Electronic Navigation System: (if installed):

- (1) Activate the route. (S)
- (2) Use XTE, SOG and ETA functions.

GPS: (if installed):

- (1) Activate the route. (S)
- (2) Use XTE, SOG and ETA functions.

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RADAR (if installed): (1) Tune/Adjust RADAR for conditions. (2) Proper use of radar to determine risk of collision IAW Navigation Rules & Regulations. (S) (3) Display waypoint information on radar screen.	
(S) Provide ETA to complete pattern.	
(S) Commence search within 100 yards of CSP.	
(S) State speed over ground (SOG).	
(S) Adjust course and speed to stay on track line.	
(S) Navigate boat in accordance with Navigation Rules & Regulations.	
(S) Complete pattern +/- 5 min. of ETA.	
Keep Unit/Operational Commander advised of status and completion of pattern.	
Use illumination without compromising night vision (if at night).	
COMMENTS	