



**(5) Class(es) of station (e.g., fixed, mobile, or both) and call sign of station (if applicable).**

The station is a fixed station with no call sign.

**(6) Description of the location(s) and, if applicable, geographical coordinates of the proposed operation.**

Haras proposes to operate in Herndon, VA at the following coordinates: 38° 57' 20.7354" N, 77° 23' 46.788" W. Testing will be conducted on the rooftop of a building located at 12900 Worldgate Drive, Herndon, VA 20170.

Haras recognizes that experimental operations must not cause harmful interference to authorized facilities. Should interference occur, Haras will take immediate steps to resolve the interference and provides a stop buzzer point of contact in Section (1) above.

**(7) Equipment to be used, including name of manufacturer, model and number of units.**

<b>Manufacturer</b>	<b>Model Number</b>	<b>Experimental</b>	<b>Number of units</b>
Navico Inc.	Simrad Halo24	No	1

**(8) Frequency (or frequency bands) requested.**

9.3-9.5 GHz

**(9) Minimum and maximum effective radiated power (ERP) and output power.**

<b>Frequency Band(s)</b>	<b>Maximum ERP (W)</b>	<b>Output Power (W)</b>
9.3-9.5 GHz	3040.5 W	25.0 W

**(10) Emission designator or describe emission (bandwidth, modulation, etc.).**

<b>Frequency Band(s)</b>	<b>Emission Designator</b>	<b>Modulating Signal</b>	<b>Frequency Tolerance (%)</b>
9.3-9.5 GHz	100MP0N	Unmodulated Pulse	0.0560111%

**(11) Overall height of antenna structure above the ground.**

3 meters above the roof on which it is mounted and 37 meters above ground level.

**(12) Width of the beam in degrees at the half power point.**

<b>Antenna</b>	<b>Beam Width (degrees)</b>
Halo24	Horizontal: 3.9 Vertical: 22

**(13) Orientation in horizontal plane (degrees).**

<b>Antenna</b>	<b>Horizontal/Azimuth Range of Boresight Operation</b>
Halo24	360 degrees

**(14) Orientation in vertical plane (degrees).**

<b>Antenna</b>	<b>Vertical/Elevation Range of Boresight Operation</b>
Halo24	0 degrees