

EXHIBIT 1 DESCRIPTION OF MODIFICATION

Raytheon Company ("Raytheon") proposes to modify license WL2XMV to permit a market trial of its Skyler radar and to make certain changes to technical specifications of the license. The proposed changes are listed below:

- Permit the radar to be used for a market trial radar pursuant to 47 CFR §5.3(k) and §5.602 by modifying the first paragraph of the license as follows:

"Operation: In accordance with Sec. 5.3(j) and 5.3(k) of the Commission's Rules";

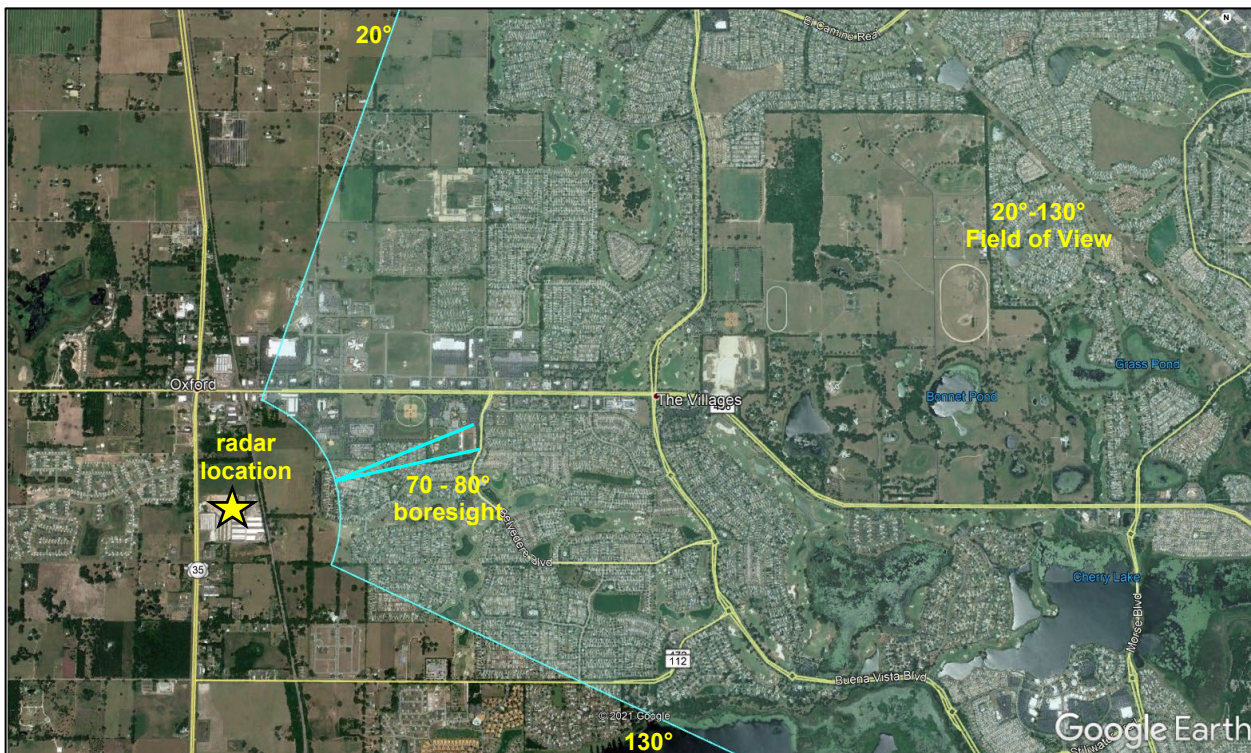
- Modify the antenna height to 85' AGL; and
- Modify Condition 5 of the license to change the azimuth coverage and boresight as follows:

"The direction of antenna boresight must be set between 70–80 deg such that azimuth coverage must contain between 20 and 130 deg reference to true north."

Raytheon has submitted Exhibit 2 containing information about the confidential portions of this application and a request for confidentiality as Exhibit 3.

Proposed Azimuth Coverage and Boresight

Raytheon proposes a radar boresight between 70–80° to permit adjustments if there are obstacles in its path such as trees and buildings. The expanded azimuth coverage is required to address the flexible boresight.



Proposed Change to Antenna Height

Raytheon proposes to install the radar on an 80' temporary tower-on-wheels. The total height of the antenna structure with the radar will be approximately 85' AGL. Raytheon has confirmed that this temporary tower does not require FCC Antenna Structure Registration. Results from the FAA No Notice Tool and the FCC TOWAIR tool are shown on the next page.



FAA No Notice Tool

Latitude:	28 Deg 55 M 9 S N
Longitude:	82 Deg 2 M 6 S W
Horizontal Datum:	NAD83
Site Elevation (SE):	100 (nearest foot)
Structure Height :	85 (nearest foot)
Traverseway:	No Traverseway
	(Additional height is added to certain structures under 77.9(c)) User can increase the default height adjustment for Traverseway, Private Roadway and Waterway
Is structure on airport:	☒ No ☐ Yes
	Submit

Results

You do not exceed Notice Criteria.

FCC TOWAIR Tool

TOWAIR Determination Results

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*** NOTICE ***

TOWAIR's findings are not definitive or binding, and we cannot guarantee that the data in TOWAIR are fully current and accurate. In some instances, TOWAIR may yield results that differ from application of the criteria set out in 47 C.F.R. Section 17.7 and 14 C.F.R. Section 77.13. A positive finding by TOWAIR recommending notification should be given considerable weight. On the other hand, a finding by TOWAIR recommending either for or against notification is not conclusive. It is the responsibility of each ASR participant to exercise due diligence to determine if it must coordinate its structure with the FAA. TOWAIR is only one tool designed to assist ASR participants in exercising this due diligence, and further investigation may be necessary to determine if FAA coordination is appropriate.

DETERMINATION Results	
Structure does not require registration. There are no airports within 8 kilometers (5 miles) of the coordinates you provided.	
Your Specifications	
NAD83 Coordinates	
Latitude	28-55-09.0 north
Longitude	082-02-06.0 west
Measurements (Meters)	
Overall Structure Height (AGL)	25.9
Support Structure Height (AGL)	24.4
Site Elevation (AMSL)	30.5
Structure Type	
GTOWER - Guyed Structure Used for Communication Purposes	