

## APPLICATION TO EXTEND EXPERIMENTAL STA LICENSE

*Purpose of Application.* Pursuant to Section 5.61(c) of the FCC's rules,<sup>1</sup> AURA Network Systems OpCo, LLC ("AURA") files this application for a new conventional experimental radio license to extend its current special temporary authority ("STA") under Call Sign WS9XOU for twelve months under identical terms and conditions as the current STA.<sup>2</sup>

Section 5.61(c) states that the FCC may grant an extension of an STA "provided that an application for a conventional experimental license that is consistent with the terms and conditions of that STA (i.e., there is no increase in interference potential to authorized services) has been filed at least 15 days prior to the expiration of the licensee's STA."<sup>3</sup> Call Sign WS9XOU expires on March 3, 2022. Therefore, AURA files this application "at least 15 days prior to the expiration of [its] STA."

Operating authority remains necessary so that AURA may continue conducting tests with the University of Iowa to determine the most effective combination of equipment and network parameters to securely and reliably enable data and navigation capabilities for manned aircraft in different conditions and at different altitudes in Iowa City, IA.<sup>4</sup> Testing will continue to occur in the air on manned aviation aircraft.

AURA seeks to operate under identical terms and conditions as its current STA. For convenience, AURA has attached the "Description of Experiment" associated with ELS File No. 1347-EX-ST-2021, which provides a more fulsome description of its experiment, as Exhibit 1 to this application.

Finally, AURA notes that it intends to conclude its testing in less than twelve months but requests that its STA be extended for a full twelve months out of an abundance of caution.

*Justification for Selecting "Other" Under "Applicant Type."* Pursuant to the Form 442's instructions, AURA clarifies that it selected "Other" under "Applicant Type" because it is a limited liability company ("LLC").

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<sup>1</sup> See 47 C.F.R. § 5.61(c) ("Extensions of an STA may be granted provided that an application for a conventional experimental license that is consistent with the terms and conditions of that STA.").

<sup>2</sup> See Call Sign WS9XOU, ELS File No. 1347-EX-ST-2021.

<sup>3</sup> 47 C.F.R. § 5.61(c).

<sup>4</sup> See 47 C.F.R. § 5.3(j) ("Stations operating in the Experimental Radio Service will be permitted to . . . [d]evelop[] radio technique, equipment, operational data or engineering data, including field or factory testing or calibration of equipment, related to an existing or proposed radio service.").