Lightning Advisory Panel Statement of Work

1. **Objective:** The Lightning Advisory Panel (LAP) defines and recommends the Lightning Launch Commit Criteria (LLCC), and associated rationale, to try to assure reduced risk to launch vehicles by triggered lightning or intercepting natural lightning. The LLCC support NASA, Department of Defense (DoD), and Federal Aviation Administration (FAA) launches in the United States to assure safety and, to the maximum extent possible, provide launch availability.

2. **Qualifications:** The LAP are world-recognized experts on atmospheric electricity and other fields (i.e., lightning physics, radar meteorology, cloud physics, and statistics). Panel members must hold an earned PhD from an accredited institution in one of the above, or a closely related Science, Technology, Engineering, and Mathematics (STEM) discipline. Members also produce highly impactful, peer-reviewed published research in leading academic and industry journals. While not strictly required, qualifications may be enhanced by public recognition for scientific achievements, experience as a journal peer reviewer, or professional memberships in scientific committees.

3. **Scope:** As a member of the LAP, the individual shall support LAP activities for the contracted period of performance to include the following:

   Task 1 (price separately from other tasks):
   - Performed over a 1-year period
   - Attendance at one ~3-day face-to-face or virtual meeting at Kennedy Space Center, Florida, is required and tentatively scheduled for Summer/Fall 2026
   - Attend 12-22 teleconferences (approximately 1.5-hours each)
   - Participate in at least one, preferably two, LAP sub-committees that are focused on addressing assigned action items (e.g., LLCC development, modification, and data collection). This includes, but is not limited to, being the sub-committee lead or co-lead that is focused on the physically connected cumulus clouds and assisting with Airborne Field Mill rule development.
   - Prior to the meetings:
     - Prepare to report on action items
     - Review worldwide lightning research as relevant to updating the LLCC
   - At meetings:
     - Participate in LAP discussions to modify existing LLCC and associated rationale with the overall objective to improve operational effectiveness, assure safety and increase launch availability
     - Provide guidance using expertise derived from research in which the entity is involved as well as studies of existing literature
   - Post meetings complete action items:
     - LLCC review, editing, and analyses, and/or
     - LLCC-related research review, and/or
     - Document formal recommendations including but not limited to research, instrumentation, and forecast tool development to improve operational effectiveness, assure safety and increase launch availability

Task 2 (price separately from other tasks):

- Travel expenses for one ~3-day face-to-face meeting at Kennedy Space Center, Florida, tentatively scheduled for Summer/Fall 2026

Task 3 (price separately from other tasks):

- Function as LAP Chair to include the following responsibilities:
  - Serve as the primary point-of-contact to NASA and the United States Space Force, and provide answers to questions from the LAP technical point-of-contact, and if necessary the question initiator, regarding information about the LAP and LLCC
  - Assist in the planning and conduct of LAP meetings by managing the agenda and providing technical expertise on agenda items, and by delegating tasks and actions to ensure progress
  - Lead virtual and in-person LAP discussions (shared role with LAP technical point-of-contact)
  - Provide clarity on integrated or consensus LAP opinions and recommendations
  - Provide focus and maintain priorities for LAP activities
  - Track progression of action items assigned to or by the LAP (shared role with LAP technical point-of-contact)

4. **Deliverables:** Prior to completion of the year's activities, provide Required Deliverable Documents (RDDs) for the period of performance which consists of the following:

   - Description of contributions (e.g., LLCC review and editing, analysis or research performed, participation in working meetings and LAP sub-committees), which includes a brief explanation (approximately a paragraph) of the activity and how it is utilized toward LLCC development and documentation of rationale. For any work as a sub-committee lead, this should also include related documentation that summarizes findings and potential LLCC wording updates.
   - Documentation of analyses not included in the LLCC, rationale or other published research
   - Provide an updated curriculum vitae 6-months after date of award

5. **Period of Performance:** One year from the date of award.