

**DRAFT Amendment 3 to the  
Memorandum of Understanding  
Bay Area Advanced Quantitative Precipitation Information  
System**

ESTABLISHING A PROJECT BETWEEN THE

Sonoma County Water Agency  
(Water Agency)

AND

U.S. Department of Commerce  
National Oceanic and Atmospheric  
Administration Office of Oceanic and  
Atmospheric Research Earth System Research  
Laboratory (DOC/NOAA/OAR/ESRL)

Agreement No. **50-35-3RR2NAQ**

**1. PURPOSE**

The purpose of this amendment is to extend the Memorandum of Understanding (MOU) that was executed on August 18, 2017, and that is slated to terminate on December 31, 2024. This Amendment 3 serves to extend the termination date of the MOU from December 31, 2024, to March 31, 2026.

**2. ACTIVITIES**

As of August 1, 2024, NOAA expects that work remaining on the project (not exhaustive) includes the following: one X-band and one C-band radar system need to be installed, tested, operated, and integrated into the AQPI system as part of the original scope of work. CIRA is responsible for installing, testing, operating, and integrating the radar systems. NOAA's role in the radar systems is co-siting with Sonoma Water and CIRA and co-development with CIRA of the algorithms to create rainfall accumulation products (quantitative precipitation estimation – QPE). In addition, approximately 20 surface meteorology sites were to be located, deployed, tested, operated, and integrated into the AQPI system. 13 of the 20 sites have been completed and the remaining 7 sites will be located, deployed, tested, operated, and integrated into the AQPI system. NOAA will handle the location, deployment, testing, and operation of the remaining surface meteorology systems. NOAA will coordinate with CIRA on the data integration into the AQPI system. The related deliverables that will be delayed into the extension period (i.e, after December 31, 2024) identified in the original and amended funding agreement include:

- Final Monitoring Sensor Evaluation Report, incorporating TAC comments on draft
- Deliver monitoring sensor data to BA-AQPI System
- Final QPE Evaluation and Improvement Report

**3. PERIOD OF AGREEMENT AND MODIFICATION/TERMINATION**

Paragraph 1 of Article 3 of the MOU is deleted in its entirety and replaced with the following language:  
*This MOU will become effective when signed by all parties. The MOU will terminate on March 31, 2026, but may be amended at any time by mutual written consent of the parties. The parties will review this MOU at least once yearly to determine whether it should be revised, extended, renewed, or canceled.*

**All other terms and conditions of the original MOU apply.**

IN WITNESS WHEREOF, the parties hereto have signed this Amendment on the day and year appearing opposite the signatures of their authorized representative.

**SIGNATURES**

***Sonoma County Water Agency***

Reviewed as to funds:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Water Agency Division Manager – Administrative Services

Reviewed as to form:

By: \_\_\_\_\_ Date: \_\_\_\_\_  
Adam Brand, Deputy County Counsel

Sonoma County Water Agency  
Authorized by Water Agency’s  
Board of Directors Action on December 3, 2024

\_\_\_\_\_  
Grant Davis, General Manager  
Sonoma County Water Agency  
404 Aviation Boulevard  
Santa Rosa, CA 95403  
Date: \_\_\_\_\_

***DOC/NOAA/Office of Oceanic and Atmospheric Research/ESRL***

\_\_\_\_\_  
David Holst  
Chief Financial/Administrative Officer  
DOC/NOAA/Office of Oceanic and Atmospheric Research  
1315 East West Highway  
Silver Spring, MD 20910  
Date: \_\_\_\_\_