

ACTION BRIEF

BOARD OF DIRECTORS



Agenda Number 6.b

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MEETING DATE: Thursday, September 7, 2023

AGENDA ITEM: Intergovernmental Agreement with ADWR for Use of InSAR Program (*Project Reliability*[^]) - Rettinger

RECOMMENDATION: Staff recommends approval of the intergovernmental agreement with ADWR for the continuance of the InSAR Program to monitor land subsidence.

FISCAL IMPLICATIONS: Yes

Impact on Budget:

Funds for the cost of this InSAR IGA are contained within the 2024 - 2025 budget request.

Additional spending authority requested: None

Impact on Reserves:

None

Impact on Rates:

None

LINKAGE TO STRATEGIC PLAN, POLICY, STATUTE OR GUIDING PRINCIPLE:

2022 CAWCD Board Strategic Plan

Project Reliability: *Providing reliable and cost-effective operations, maintenance, and replacement of CAP's infrastructure and technology assets*

PREVIOUS BOARD ACTION/ACTIVITY:

Jun 4, 2015 Current Intergovernmental Agreement (IGA) with ADWR for InSAR Program was approved and executed. This IGA expires at the end of 2023.

ISSUE SUMMARY/DESCRIPTION:

The Arizona Department of Water Resources (ADWR) is responsible for monitoring land subsidence in Arizona. In 2002, ADWR received a grant from NASA to enhance the land subsidence monitoring program by using a satellite-based data collection system known as Interferometric Synthetic Aperture Radar (InSAR) which uses satellite data to determine the elevation of a ground surface. These ground surface elevation measurements are then compared to measurements taken at another time to determine if land subsidence is occurring and by how much.

During the development of the InSAR Program, ADWR received feedback from CAWCD and other potential end-users about the value of continuing to monitor land subsidence using InSAR. Cooperative arrangements were developed with CAP and other end-users to fund the collection of the satellite data to ensure the continuance of the InSAR Program.

In 2008, CAWCD reviewed the costs associated with the InSAR Program and determined that an annual contribution of \$40,000 would be appropriate given the large area needed to monitoring land subsidence for the entire CAP system. The annual costs to ADWR for the satellite data associated with the monitoring of the

entire CAP system are approximately \$70,000 per year.

In 2015, CAWCD and ADWR entered into an Intergovernmental Agreement for the InSAR program. That IGA set forth the conditions and terms of the cooperative funding arrangement with CAWCD providing \$40,000 annually in exchange for ADWR providing the InSAR data to CAWCD on an annual basis. That original IGA had a term of two years with the option to renew for up to three additional terms. At the end of 2023, the third renewal of that original IGA will expire, and a new IGA will need to be executed in order to continue the InSAR Program.

The proposed IGA that is being presented has the same annual cooperative funding amount of \$40,000 in exchange for InSAR data being provided to CAWCD on an annual basis. The term of the proposed IGA is two years with the option to renew the term for up to three additional times.

SUGGESTED MOTION:

I move that the Board approve the Intergovernmental Agreement with the Arizona Department of Water Resources for the InSAR Program for the monitoring of land subsidence.

ATTACHMENTS:

1. IGA between ADWR and CAWCD for InSAR Data Collection