**Northwest Public Power Association**

**Resolution 2019-17**

**Support Use of Drones by Consumer-Owned Utilities**

**Background**

The electric utility industry sees significant potential benefits from the use of drones, or Unmanned Aircraft Systems (UAS), to help ensure the reliability, safety, security, and resilience of the electric grid and the safety of utility workers.

Working on and around electric power equipment can be hazardous, costly, and time consuming. For utility crews climbing on equipment, and for those working in manned aircraft flying near the equipment, it can be particularly dangerous, especially during a crisis situation. Hazards present during even routine maintenance procedures are multiplied when equipment has been damaged, or the surrounding terrain has been made hazardous by natural or man-made events.

UAS equipped with high-resolution cameras provide substantially better information than utility crews performing visual inspections. Using UAS to conduct inspections of damage removes the threat to the crew, or those flying manned aircraft. Night-time assessments and damaged equipment assessments can also be done much faster, and more efficiently, which could help restore power sooner.

Research from the Electric Power Research Institute shows that UAS could reduce these hazards, while increasing electric reliability, reducing the duration and impact of outages, and reducing the cost of recovery efforts. UAS can reduce inspection over mountainous terrain by days. Moreover, the costs of purchasing and operating UAS are a fraction of the costs of using helicopters to inspect lines or disaster-related damage.

At the direction of Congress, the Federal Aviation Administration (FAA) finalized federal regulations to govern the use of commercial drones by businesses and public agencies. While these policies take steps in the right direction by authorizing drone use for critical infrastructure repair, restrictions on using drones beyond the line of sight, at night, and over people limit the full benefit of this emerging technology to the utility sector. The most recent FAA reauthorization directs the FAA to test ways to safely lift these restrictions.

**NWPPA’s Position**

* NWPPA supports policies that allow utility use of UAS to enhance electric reliability by helping maintain electric power delivery services and restoring electric power more quickly and safely after an outage.
* NWPPA supports FAA rules that will ensure safety and privacy, while allowing UAS use to enhance essential public services.
* NWPPA strongly supports regulations or legislation that qualifies the use of drones by public power utilities as a “public aircraft operation” carrying out a “governmental function.”

Origination Date: 2016, Revised 2017 and 2019.