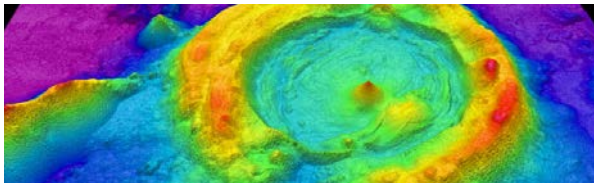
UPCOMING ACTIVITIES
AT JOSHUA FALLS

APPALACHIAN POWER
An AEP Company

ENGINEERS AND SCIENTISTS CONDUCT EXTENSIVE STUDIES OF THE SITE TO INFORM THE EVALUATION OF THE FEASIBILITY AND SUITABILITY FOR SMR DEVELOPMENT.

Ground Imaging

Electrical Resistivity Imaging (ERI) and Ground Penetrating Radar (GPR) are types of non-invasive subsurface mapping help to identify subsurface conditions. The devices use electrodes and radio frequencies to detect objects below ground. Maps and images are created from the data.



LiDAR

LiDAR (Light Detection and Ranging) uses laser pulses to measure the distance of an object to the source. The data points result in digital 3D maps for accurate design and engineering. LiDAR surveying crews use mobile (car or aerial vehicle) or static (tripod) equipment.

Subsurface Investigations

Drilling and boring activities will take place in order to install groundwater monitoring wells and to take boring samples of the site. This information is required to characterize the site for the U.S. Nuclear Regulatory Commission's Early Site Permitting Application process.

Historical and Cultural Resources Survey

Archaeologists and historians perform literature reviews and field investigations of the site.

Environmental Survey

Biologists and environmental scientists scope and conduct field surveys, including but not limited to, to gather information about wetlands and other waters, wildlife and their habitats, and rare, threatened, endangered and other protected species.

Land Surveying

Field crews use staking to mark the project area, identify site features, and pinpoint future structure locations. Environmental crews use staking to identify wetlands or other environmentally sensitive areas.

Fencing

Installation of protective and boundary fencing around the Joshua Falls property to ensure safety and security. Specifically, the fencing will control site access, demarcate property lines, and prevent unauthorized entry.

Meteorological Evaluation Tower (MET)

A MET tower will be installed for the purpose of collecting atmospheric data such as wind speed, direction, temperature and humidity. Preparation for installation will involve vegetation clearing, which will be done in compliance with local regulations and necessary permitting.