09SR026

Noise Levels at Fifth Street Substation

Noise Levels with existing equipment

Black Hills Power has taken noise level readings on the outside perimeter of the substation fence. We took the noise level readings under normal operating conditions as well as with the fans on. The results can be seen on the attachment. The attachment also shows the noise levels along the two major roads adjacent to the site. Please note that these noise level readings taken at the fence and property lines were taken during the day and include all background noises present.

New Equipment Noise Levels

The majority of the noise within a distribution substation comes from the transformers. Both transformers on site will be replaced and will meet today's standards in regards to transformer noise. The noise levels in the substation will meet the City's noise level standards of less than 70dB at the property line.

