

Federal Communications Commission, Form 442

Exhibit No. 3

(Reference for Station Location Item, "Is directional antenna used?")

Prepared by: Maryland Department of the Environment

The antenna system will consist of one steer-able four-panel micro-patch phased array planar antenna with side-lobe reduction fence. The antenna is pointed vertically with electrically switched delays introduced to point it 23.5° off vertical in planes that are 90° from each other. The antenna will have a beam width of 11 by 11 and 24 dBi of gain.

Normal operation will consist of sequential transmissions in each of three (two oblique and one vertical) or five (four oblique and one vertical) directions.