

EXHIBIT
FCC On-line Form 442
DIRECTIONAL ANTENNA DESCRIPTION

The radar antenna system will consist of one steerable four-panel micro-patch phased array planar antenna with sidelobe reduction fence. The antenna will be pointed vertically with electrically switched delays introduced to point it 23.5° off vertical in planes that are 90° from the other. The antenna will have a beamwidth of approximately 9° by 9° and approximately 26 dB 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.