

## Radiofrequency Electromagnetic Exposure Analysis

| Source   | Height<br>AGL(m) | Antenna type   | Bays | Horizontal<br>ERP (kw) | Vertical<br>ERP<br>(kw) | Power Density $\mu\text{W}/\text{cm}^2$ at 2 meters AGL |  |         |   |                                  |
|----------|------------------|----------------|------|------------------------|-------------------------|---|--|---------|---|----------------------------------|
|          |                  |                |      |                        |                         | within 10<br>meters<br>distance                         | % controlled<br>environment limit<br>(1000 $\mu\text{W}/\text{cm}^2$ ) | Max. PD | % uncontrolled<br>environment limit<br>(200 $\mu\text{W}/\text{cm}^2$ ) | Distance to<br>maximum PD<br>(m) |
| PROPOSED | 9                | SCALA YA7FML-1 | 1    | 0.000                  | 0.001                   | 0.1   | 0.01%  | 0.1     | 0.1%  | 12                               |
|          |                  |                |      |                        |                         | 0.1   | <b>0.01%</b>   | 0.1     | <b>0.1%</b>   | 12                               |

The proposed facility is excluded from environmental processing under 47. C.F.R. Section 1.1306 (i.e., The facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments).

Calculations made using Equation 10 from OET Bulletin 65 and elevation pattern provided by antenna manufacturer