**Appendix A: Design Specifications Form**

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| --- | --- | --- | --- |
| **Geometry** | | | |
| *Number of segments:* |  |  |
| *Length when fully extended:* |  |  |
| *Length when fully retracted:* |  |  |
| *Tube wall thickness:* |  |  |
| *Maximum diameter:* |  |  |
| **Material** | | | |
| *Material name:* |  |  |
| *Density:* |  |  |
| *Elastic modulus:* |  |  |
| *Yield strength:* |  |  |
| **Performance** | | | |
| *Maximum normal stress under given loading:* |  |  |
| *Safety factor under given loading:* |  |  |
| **Cost** | | | |
| *Mass of antenna:* |  |  |
| *Cost of raw materials:* |  | USD |