This document is intended to be used as a Microwave installation inspection checklist. For reference, a microwave link includes a transmitter/receiver pair. A microwave transceiver consists of a single microwave sensor head.

The following items consist of the physical Microwave installation characteristics. The items should be verified upon initial physical inspection.

- Alignment voltage for all microwave links and transceivers should be verified via the RM83 (Analog/Hi-Rel Digital) or Installation Service Tool (Digital).
  - Alignment voltage should read minimum 1.0VDC to 5.0VDC for analog microwaves, 1.0VDC to 3.3VDC for digital microwaves, and minimum 4.0VDC for microwave transceivers

- Sensitivity settings for all microwave links and transceivers should be verified via the RM83 (Analog/Hi-Rel Digital) or Installation Service Tool (Digital).
  - Sensitivity level should be set to the minimum sensitivity where the detection requirements are met throughout the zone in order to reduce nuisance alarm potential. Ideally, the goal is to meet the detection requirements without exceeding 50% of maximum sensitivity.

- All Microwave Zones should be free and clear of any moving, vibrating, or shaking objects (ex, A/C units, large bushes or tree branches, etc.)

Figure 1.1

Figure 1.2
☐ All Microwave Link Corner Overlaps are to be verified and measure minimum 10 to 30 foot.

![Diagram of Microwave Link Corner Overlap](image)

Figure 2.1

Figure 2.2

☐ All Microwave Intermediate Overlaps are to be verified and measure minimum 30 to 60 foot.

![Diagram of Microwave Intermediate Overlap](image)

Figure 3

☐ All Microwave Transceiver Corner Overlaps are to be verified to ensure appropriate coverage with respect to detection requirements.

![Diagram of Microwave Transceiver Corner Overlap](image)

Figure 4.1

Figure 4.2

☐ Verify that no Microwave Transceivers are aimed through chain link fence, or other fencing material.

![Diagram of Incorrect Microwave Transceiver Aim](image)

Figure 5
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- Verify that the proximity of microwave zones to the perimeter fence line is within expectable limits.

Example, a 300B Microwave Link at 250ft will have a beam width of approximately 14-16ft (7-8ft each side of the beam centerline) as shown in Figure 7, thus the Microwave heads must be a minimum of 7-8ft off the perimeter fence for optimal sensor performance. For additional information please refer to the model specific microwave technical manual.

- All Microwave mounting poles should be sturdy and not subject to any sway.

- Microwave mounting brackets are properly installed and secured. If an MB65 Mounting Bracket is used insure all four (4) jack screws are tightened to the back of the sensor’s baseplate.

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**Figure 6**
**Figure 7**

**Figure 8.1**
**Figure 8.2**