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# Radio Tower Maintenance Checklist

## 1. General Site Information

- Site Name / Tower ID: \_\_\_\_\_
- FCC Antenna Structure Registration (ASR) #: \_\_\_\_\_
- Station / Licensee: \_\_\_\_\_
- Physical Location (Address / Coordinates): \_\_\_\_\_
- Date of Inspection: \_\_\_\_\_
- Time of Inspection: \_\_\_\_\_
- Technician / Inspector Name(s): \_\_\_\_\_
- Weather Conditions: \_\_\_\_\_
- Tower Type (check one):
  - Guyed
  - Self-Supporting
  - Monopole
- Tower Height: \_\_\_\_\_

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## 2. Structural Inspection (Ground & Climb)

- Foundation free of cracks, settling, erosion, or exposed rebar
- Tower members show no bent, missing, or damaged steel
- No excessive rust or corrosion observed
- All bolts, nuts, and hardware secure
- Tower appears plumb and straight

### Guyed Towers (if applicable):

- Guy wire tension within spec
- No broken strands, corrosion, or kinks
- Turnbuckles secure with safety wire
- Anchors stable with no movement

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## 3. Antennas & Transmission Lines

- Antennas properly aligned and secured
- No visible damage or corrosion to antennas
- Mounting brackets tight and intact
- Transmission lines free from dents, cracks, or abrasion
- Connectors sealed and weatherproofed

- No signs of water ingress
  - Ice shields intact and properly mounted
  - Cable support spacing within standards
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#### **4. Electrical & Grounding System**

- Ground rods present and properly bonded
  - Grounding conductors intact and corrosion-free
  - All transmission lines grounded at required intervals
  - Ground bus secure and labeled
  - Lightning protection system intact
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#### **5. Tower Lighting & Marking (FCC Compliance)**

- All obstruction lights operational
  - No cracked lenses or failed bulbs
  - Light controller functioning properly
  - Alarm monitoring system tested
  - Photocell operational (day/night check)
  - Lighting status reported correctly to monitoring system
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#### **6. Tower Paint & Marking Compliance**

##### **Per Federal Communications Commission requirements**

- Current Paint Condition (check one):
  - Excellent
  - Good
  - Fair
  - Poor
- High-Visibility Aviation Paint Present:
  - Aviation Orange
  - Aviation White
- Paint Pattern Compliance:
  - Alternating equal-width bands
  - No excessive fading
  - No peeling, flaking, or bare steel exposed

##### **Paint Details (Required for Records):**

- Date Last Painted: \_\_\_\_\_
- Painted By (Company / Crew): \_\_\_\_\_
- Paint Type / Color Code(s): \_\_\_\_\_
- Work Completion Date: \_\_\_\_\_

**Notes on Fading or Required Repainting:**

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**7. Site Security & Compound**

- Fence intact with no breaches
- Gates lock and close properly
- Warning and RF signage visible and legible
- No unauthorized access evidence
- Vegetation controlled and cleared from structure
- Equipment shelters clean and organized

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**8. Environmental & Safety Observations**

- No nesting birds or wildlife interference
- No fuel, oil, or chemical leaks
- Fall protection systems inspected
- Safety climb or ladder system secure

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**9. Deficiencies & Corrective Actions**

**Issue Identified Priority (High/Med/Low) Action Required Target Date**

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**10. Sign-Off**

- Technician Signature: \_\_\_\_\_ Date: \_\_\_\_\_
- Supervisor / Engineer Review: \_\_\_\_\_ Date: \_\_\_\_\_