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Thomas J. Keller
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May 23, 1995

William F. Caton, Acting Secretary
Federal Communications Commission
Room 222
1919 M Street, N.W.
Washington, D.C. 20554

Re: Ex Parte Presentation in PR Docket
No. 92-235 (FCC Spectrum Refarming)

Dear Mr. Secretary:

Pursuant to Section 1.1206 of the Commission's Rules, the undersigned hereby notifies the Commission that written ex parte presentations were made today in connection with the above-referenced proceeding by representatives of the Association of American Railroads (AAR), to the following:

Office of Commissioner Ness
Office of Commissioner Quello

Enclosed is a copy of AAR's briefing materials that were submitted in the course of the presentations.

Any questions concerning this matter should be directed to the undersigned.

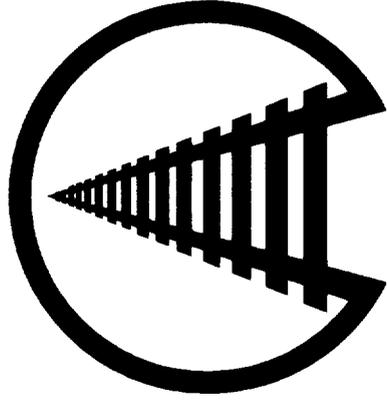
Respectfully submitted,


Thomas J. Keller

Enclosure

cc (w/o enc.): David Siddall
Rudy Baca

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ASSOCIATION
OF AMERICAN
RAILROADS

**AAR Briefing on
FCC Spectrum Refarming
PR Docket No. 92-235**

Summary of Presentation

- **Background of Railroad Radio Service**
- **Functions of Railroad Radio Systems**
- **Why the Railroad Radio Service must be preserved**
- **Why the railroads need a reasonable transition plan**

What is the "Railroad Radio Service?"

- 91 Channels (15 kHz spacing) between 160.215 and 161.565 MHz
- 3 channel pairs (25 kHz spacing) at 452 and 457 MHz
- Several other additional channels shared with other services

See 47 C.F.R. § 90.91

Six Major Functions of Railroad Radio

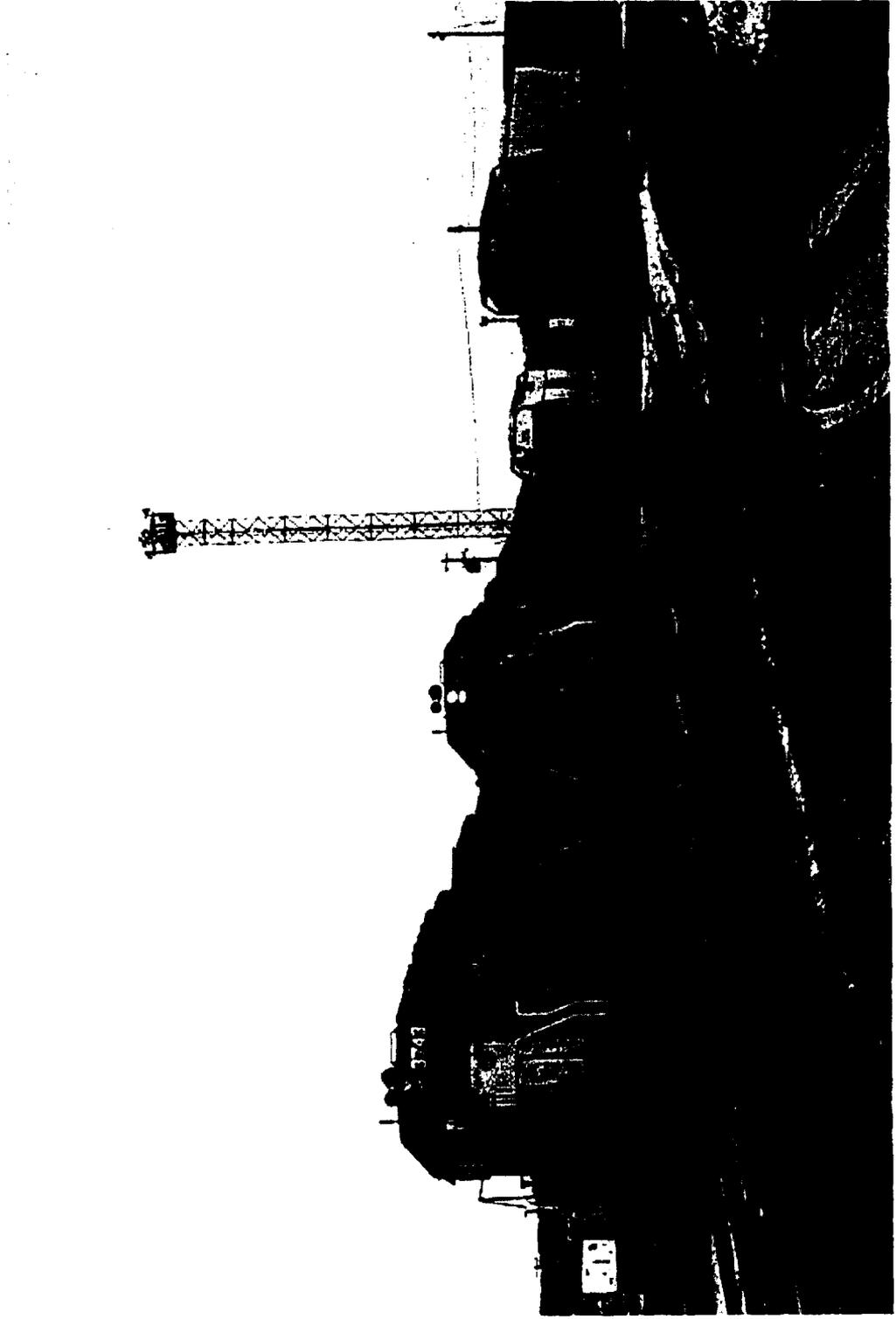
- 1 "Road" channels**
- 2 Maintenance of Right-of-Way**
- 3 Security, Law Enforcement & Emergency Response**
- 4 Yard Operations**
- 5 Train-Specific Devices**
- 6 Supervisory Communications**

✦ "Road" Channels

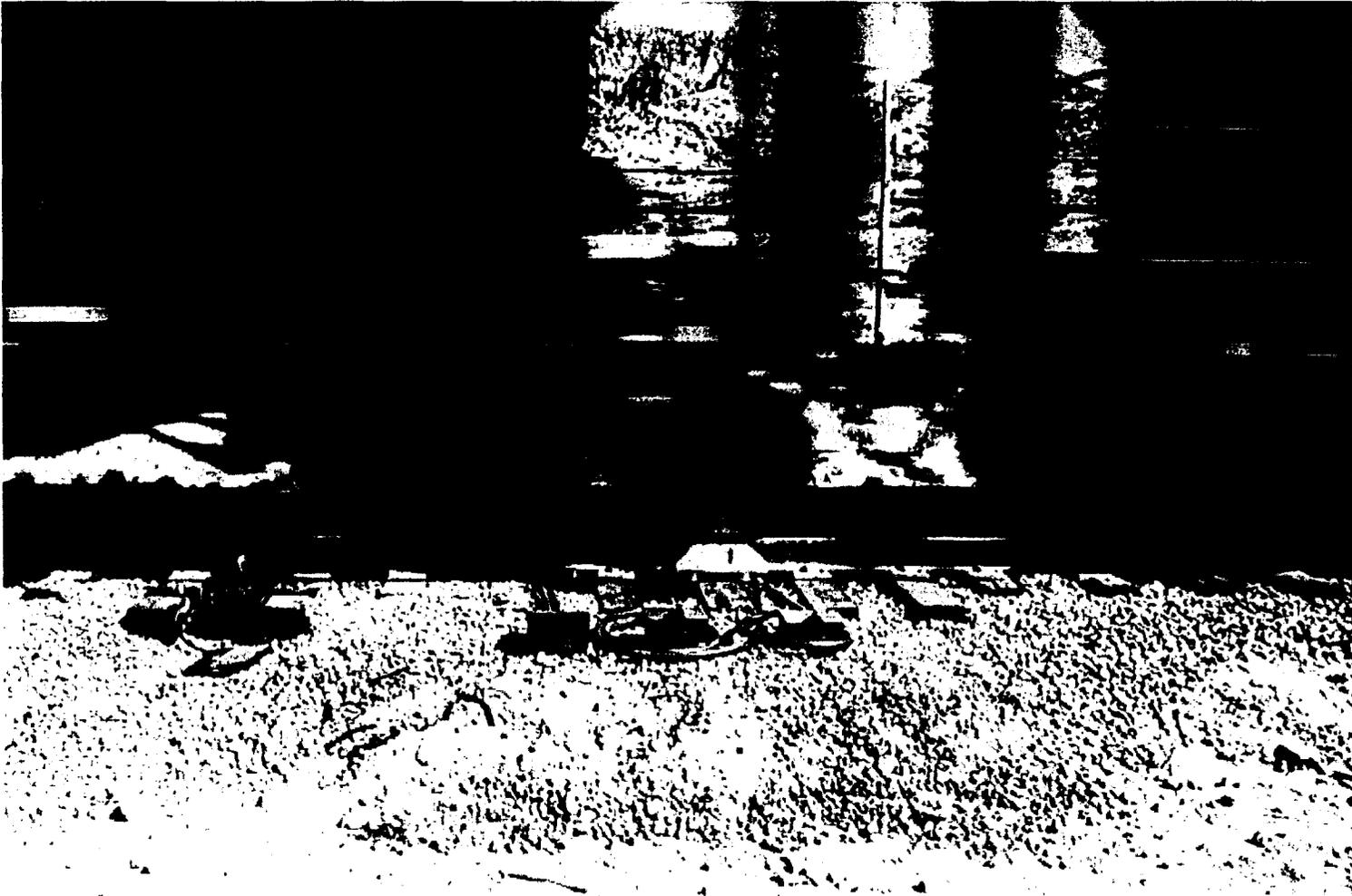
- Dispatch-to-Train
- Train-to-Train
- Engineer-to-Crew
- Automatic Defect Detectors



"Road" Channel – Dispatcher-to-Train



"Road" Channel - Train-to-Train

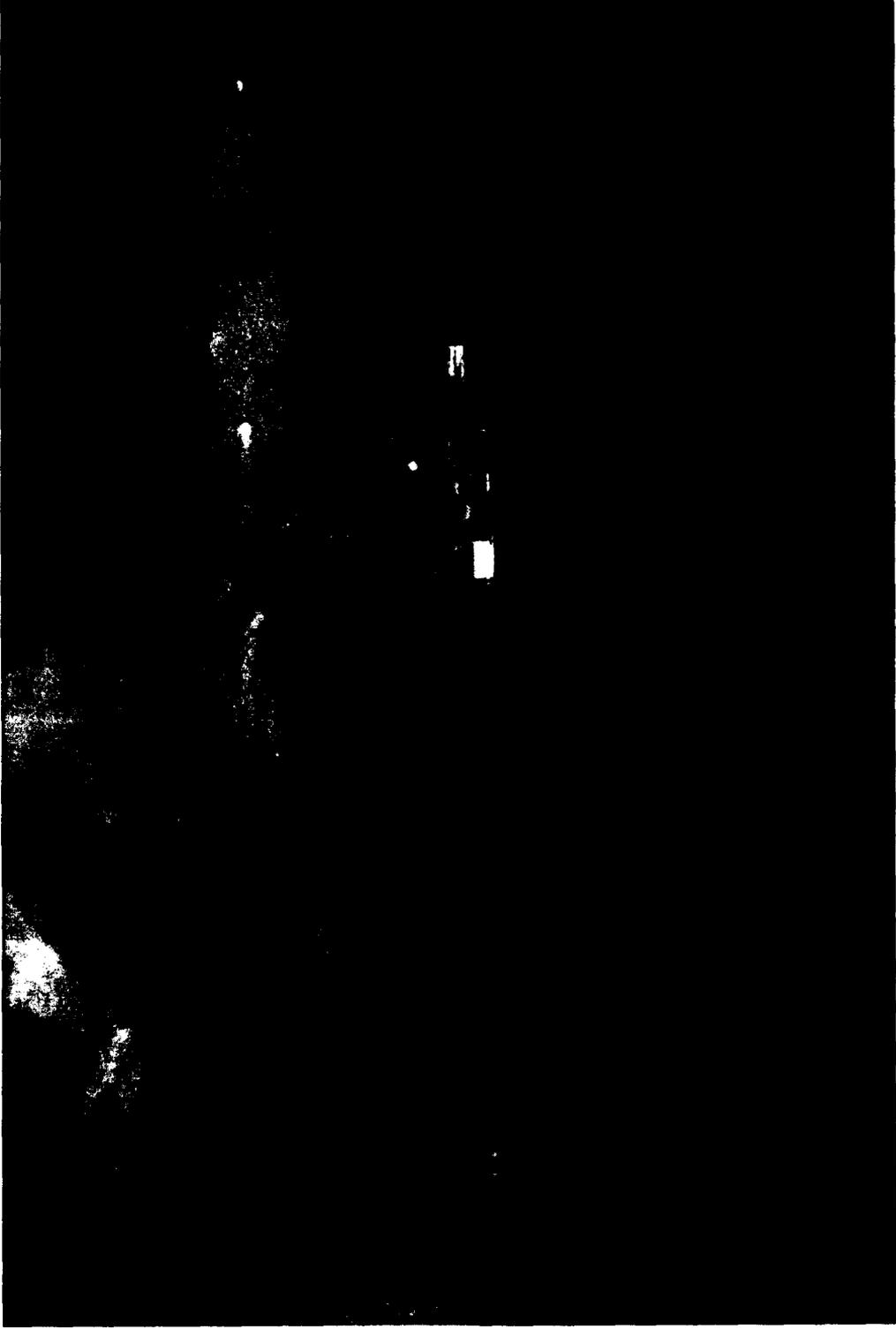


"Road" Channel – Automatic Defect Detector

Defect Detectors are also used to detect rock slides, dragging equipment, and high/wide equipment to name a few.



Typical Microwave and Base Station Installation

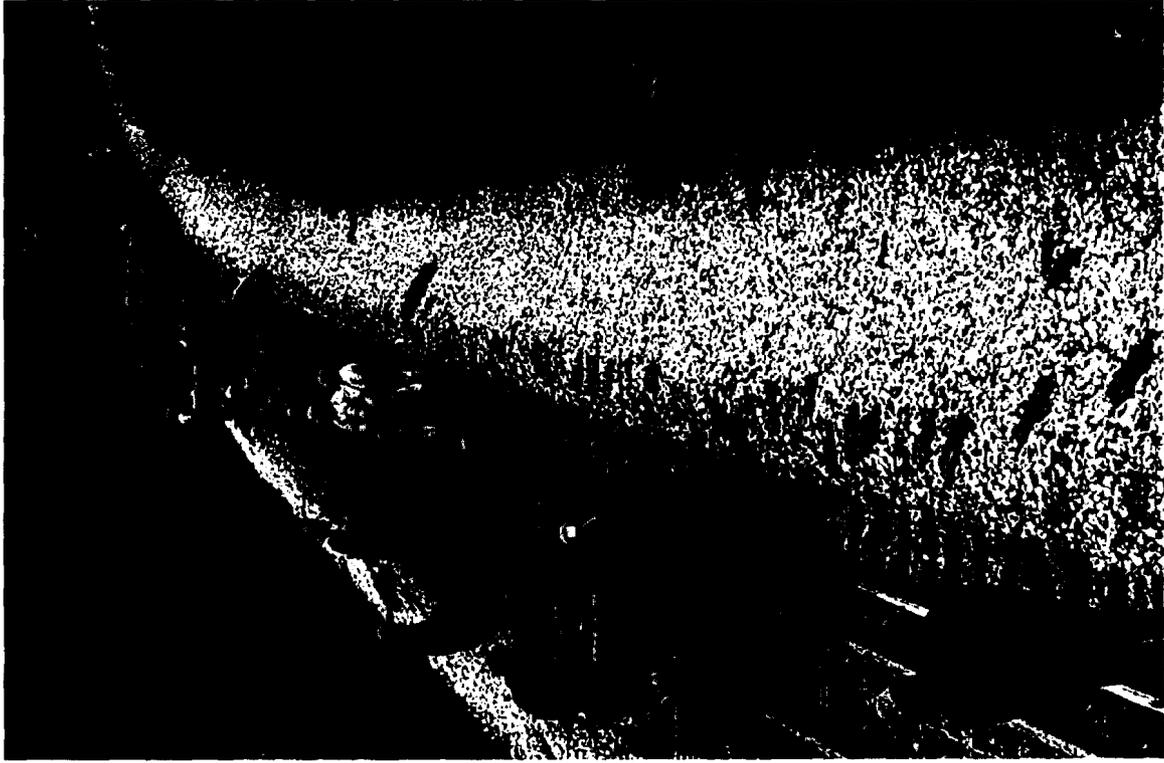


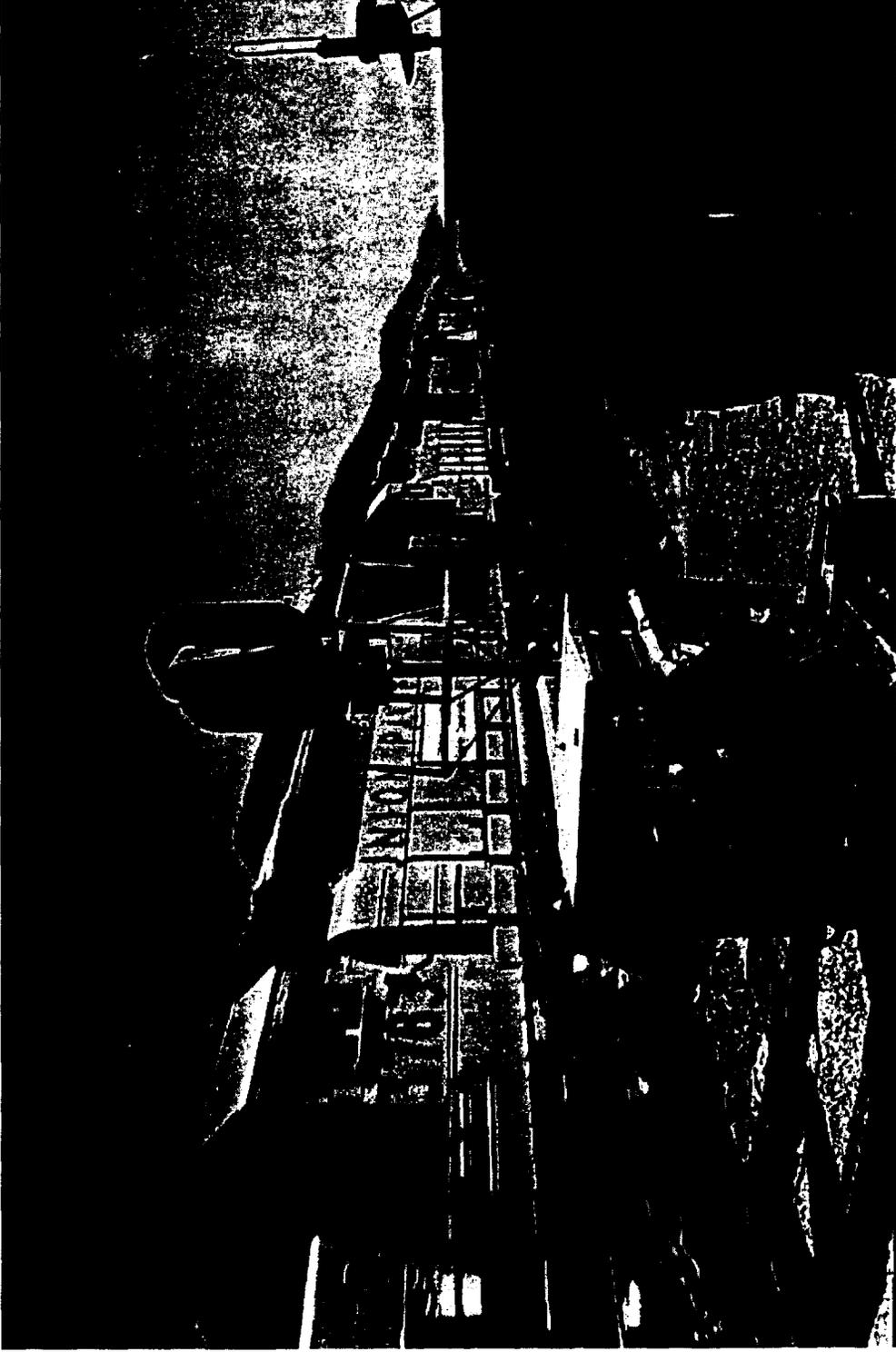
Typical Microwave and Base Station Installation

⚙ Maintenance of Right-of-Way

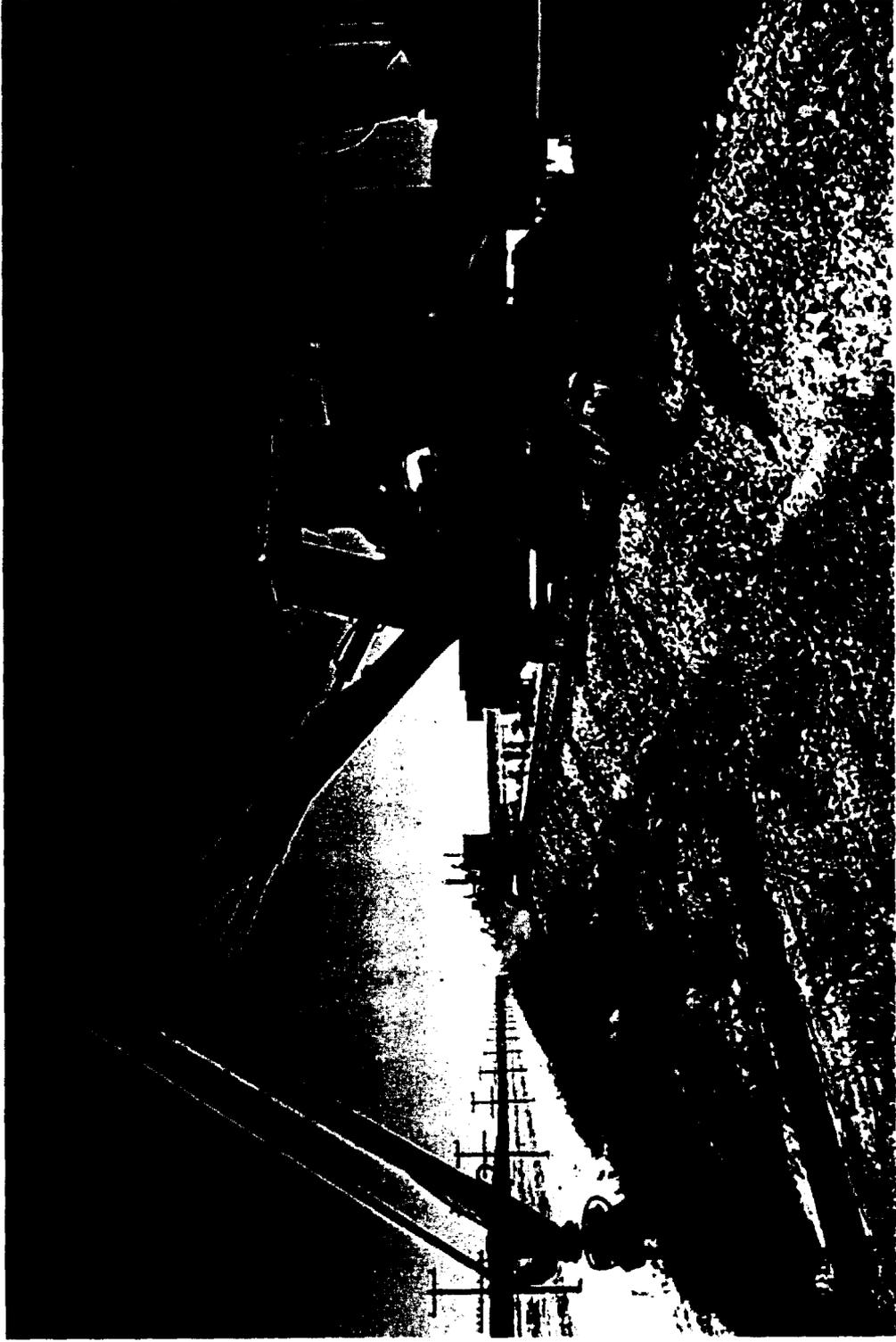
- **Track Forces**
- **Signal Forces**
- **Mobile Cranes**

"Maintenance-of-Way Channels" – Track Repair Crews





"Maintenance-of-Way Channels" - Signal Crews



"Maintenance-of-Way Channels" - Mobile Cranes

3 Security, Law Enforcement and Emergency Response

- **Property Protection**
- **Railroad Police**
- **Emergency Response**



"Security Channels" – Railroad Police

The railroad industry employs over 2,000 police officers throughout the nation. They are commissioned as police officers under state law, and are authorized by the Department of Transportation to enforce the laws of any jurisdiction in which the railroad operates. 49 C.F.R. Section 207.



"Security Channels" - Emergency Response

Yard Operations

- **Train Make-up**
- **Locomotive and Car Repair**



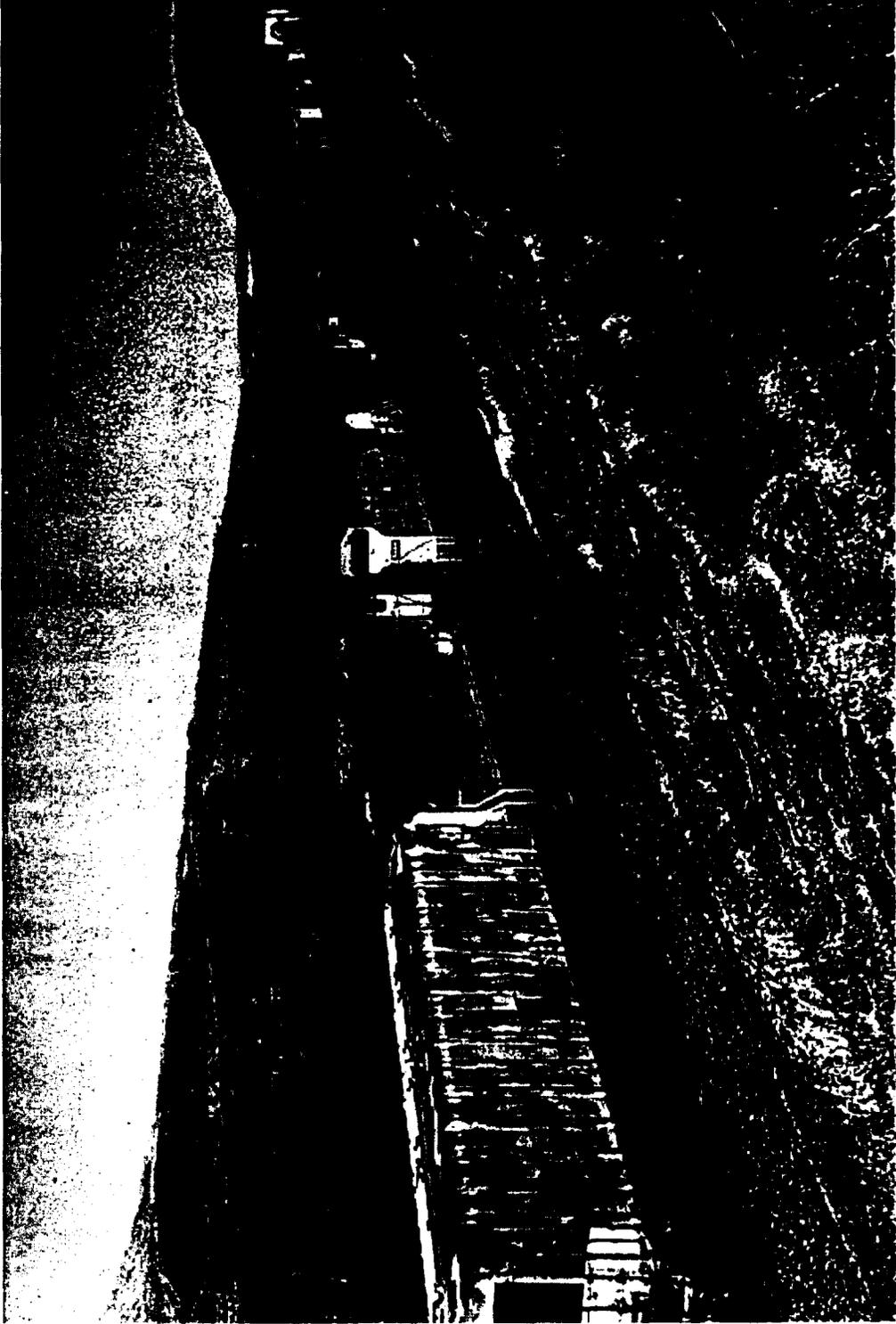
Yard Operations: Train Make-up

5 Train-Specific Devices

- **End-of-Train telemetry (mandated by Congress, 49 U.S.C. § 20141 (b))**
- **Slave Locomotive Operations**
- **Downloading Locomotive Data**



Train-Specific Devices: end-of-Train Telemetry



***Slave Locomotive Operations: Remote control
of mid-train locomotive by radio telemetry***



Train-Specific Devices: Radio telemetry to download maintenance information, fuel consumption data, condition of systems on-board, etc.

Supervisory Communications

- **To support all of above functions**