

# Main Terminal Low Voltage System Upgrade

# Many Factors Drive this Project

- Risk of interruption of operations due to old equipment at or beyond end of life
- Violations with current building codes that include potential safety impacts
- System configuration obsolete – daisy chained
- Panel schedules grossly outdated – risk during shutdowns
- Maintenance issues such as lack of replacement parts
- Existing system has no capacity for new added customer equipment



# Code Violations

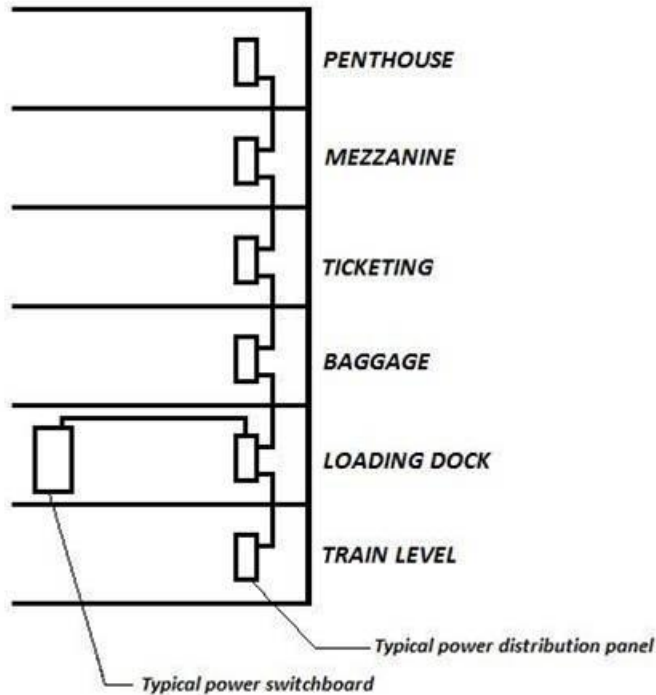
**Electrical Room Inside Chase**



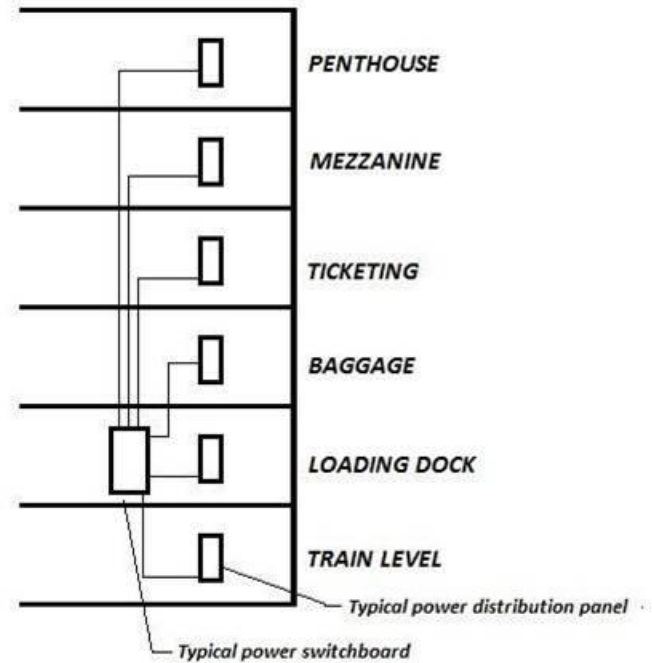
**Electrical Room Inside Chase**



# Feeder Upgrades

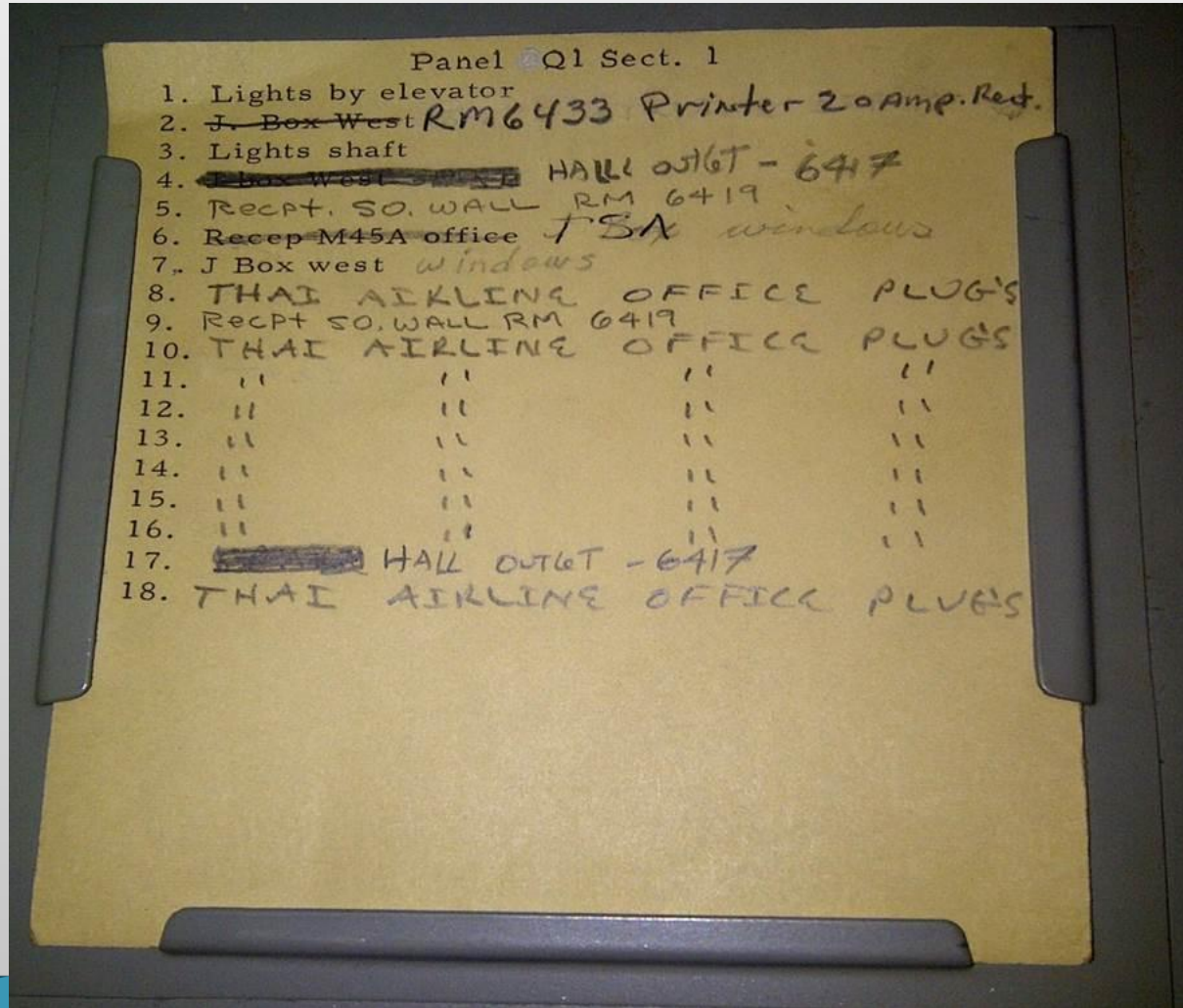


**Existing Power Riser for Main Terminal**  
*Feed-Through Service installed from 1950s to 1970s*



**New Power Risers for Main Terminal**  
*Individual feeders to each panel*

# Panel Schedules



# Extent of Work

- Equipment in Main Terminal to be replaced:
  - 21-33+ individual risers
  - **150+** electrical panelboards
  - **300,000+** linear feet of conductor/wiring (~57 miles)
  - 30 new meters
  - 15 new electrical closets/rooms
  - 9 motor control centers & 30 circuit breakers
  - 3 distribution panels & transformers

