Task 2.14
October 23, 2001

*Draft Performance Specification – Occupancy Sensors*

**Performance Requirements**

**Coverage Area:** Minimum of 400 ft\(^2\)

**Field of view:**
- Ceiling - Horizontal: 360; Vertical: up to 180
- Wall – Horizontal: up to 180; Vertical: up to 90

**Extraneous Signal Sensitivity:** Shall not be sensitive to:
- Radio signals
- Electromagnetic interference
- Electrostatic discharge
- Sudden changes in temperature and humanity
- Noise or vibrations
- Natural or forced air movement
- Movement of inanimate objects
- Occupancy or motion beyond the boundaries of the office

**Failure Mode:** Manual on/off remains operable

**Maintained Detection:** Regardless of occupancy orientation to the sensor, location in the room, or speed of performing a motion, products shall detect: 1) small body motion (e.g., writing, typing, reading); 2) medium arm motion (e.g., reaching for telephone); 3) large body motion (e.g., walking)

**Products Shall:** Have silent operation
- Unobtrusive status indicator

**Operating Temperature Range:** 0 to 35 °C

**Operating Humidity Range:** 45 to 85%

**Time Delay:** Adjustable
- Demarcations clearly labeled
- Calibrated and accurate within ± 10% of the set value
- Minimum: 15 seconds
- Maximum: 30 minutes
- No user access to adjustment

**Installation & Commissioning:** < 30 minutes

**Power Requirements:** > 1 watt