

Ownership matrix	<b>RPP-27195</b>
------------------	------------------

**1.0 PURPOSE AND SCOPE**  
(5.1.1, 5.1.2, 5.1.3, 5.1.4)

This standard provides the minimum illumination requirements as flowed down through 10 CFR 851 through 29 CFR 1926 (Construction Standard) and 29 CFR 1910.120 (Hazardous Waste Operations Standard).

These minimum requirements are only applicable to TOC work areas and tasks relevant to the referenced standards. All other areas (outside of construction and hazardous waste operations) can consider using the Illumination Engineering Society of North America (IESNA) for “recommendations” of minimum illumination levels.

**2.0 IMPLEMENTATION**

This standard is effective on the date shown in the header.

**3.0 STANDARD**

Areas accessible to employees shall be lighted to not less than the minimum illumination intensities listed in Table 1 while any work is in progress.

**4.0 DEFINITIONS**

Foot-candle. A unit of illumination; the illumination at a point on a surface that is one foot from, and perpendicular to, a uniform point source of one candle.

**5.0 SOURCES**

**5.1 Requirements**

- 5.1.1 10 CFR 851, “Worker Health and Safety Program.”
- 5.1.2 29 CFR 1910, Section 120, Paragraph (m), “Illumination.”
- 5.1.3 29 CFR 1926, Section 56, “Illumination.”
- 5.1.4 29 CFR 1926, Section 65, Paragraph (m), “Illumination.”

**5.2 References**

- 5.2.1 Illumination Engineering Society of North America (IESNA), “The IESNA Lighting Handbook Reference & Application”, 9th Edition.

**Table 1. Minimum Illumination Intensities in Foot-Candles.**

NOTE 1: Temporary lighting (such as light stands) may be used to meet the illumination requirements.

NOTE 2: For pathways where installed lighting is not available or does not meet these requirements, flashlights may be used.

Foot-candles	Area or operations	Examples
5	General site and construction areas	SST and DST Farms. Pit work, retrieval and waste transfer activities that involve equipment manipulation, riser work including sampling, performing crane work, setting up scaffolding.
3	Concrete placement, excavation and waste areas, access ways, active storage areas, loading platforms, refueling, and field maintenance areas.	Farm and facility support areas.  When walking to a job site and areas between farms, performing routines and surveys that do not involve equipment manipulation.
5	Indoors: Warehouses, corridors, hallways, and exit ways.	Indoor areas where primary use is transmission of people.
10	General shops (e.g., batch plants, mechanical and electrical equipment rooms, active storerooms, carpenter shops, rigging lofts and active store rooms, locker or dressing rooms, dining areas, and indoor toilets and workrooms.)	Maintenance shops, carpenter shop, tool crib, mask issue station.  2704 HV, 2750E, 2715WA
20-50	Offices	Administrative areas set up for the use of computer work stations. Lighting schemes in offices should be designed to reduce eye fatigue at computer work stations.

Areas outside of Construction and Hazardous Waste Operations can consider using “recommendations” from the Illumination Engineering Society of North America (IESNA), for minimum illumination levels.