**PORTABLE CONSTRUCTION LIGHTING:**

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| 4-19-22 | 1413 | SP14 R13 |

Revise the *2018* *Standard Specifications* as follows:

**Page 14-24, Article 1413-3 TOWER LIGHT, lines 2-7**, delete and replace the first and second sentence in the first paragraph with the following:

Use tower lights which consist of mercury vapor, metal halide, high pressure sodium, low pressure sodium or light emitting diode (with correlated color temperature of 4000 Kelvin or less) fixtures mounted on a tower approximately 30 feet in height. Use tower light fixtures which are heavy duty flood, area, or roadway style with wide beam spread, have sufficient output to provide the minimum illumination requirements for the Category of work, are weatherproof and supplied with attached waterproof power cord and plug.

**Page 14-24, Article 1413-3 TOWER LIGHT, lines 11-12**, delete and replace the second paragraph with the following:

Provide tower lights of sufficient wattage or quantity to provide the minimum average maintained horizontal illuminance over the work area based on the Category of work as shown in Table 1413-1. For any work not covered in Table 1413-1, provide a minimum average maintained horizontal illuminance of 20.0 footcandles over the work area.

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| **TABLE 1413-1 MINIMUM ILLUMINATION REQUIREMENTS FOR PORTABLE CONSTRUCTION LIGHTING** | | |
| **Category** | **Description of Construction and Maintenance Task** | **Minimum Average**  **Maintained Horizontal Illuminance** |
| I | Excavation; Embankment, Fill and Compaction; Maintenance of Embankment; Asphalt Pavement Rolling; Subgrade, Stabilization and Construction; Base Course Rolling; Sweeping and Cleaning; Landscaping, Sod and Seeding; Reworking Shoulders. | 5.0 footcandle |
| II | Barrier Wall and Traffic Separators; Milling, Removal of Pavement; Asphalt Paving and Resurfacing; Concrete Pavement; Base Course Grading and Shaping; Surface Treatment; Waterproofing and Sealing; Sidewalk Construction; Guardrails and Fencing; Striping and Pavement Marking; Highway Signs; Bridge Decks; Drainage Structures and Drainage Piping; Other Concrete Structures; Repair of Concrete Pavement; Pothole Filling; Repair of Guardrail and Fencing. | 10.0 footcandle |
| III | Traffic Signals; Highway Lighting Systems; Crack Filling. | 20.0 footcandle |

**Page 14-24, Article 1413-4 MACHINE LIGHTS, lines 18-21**, delete and replace the first and second sentence in the first paragraph with the following:

Use machine lights which have mercury vapor, metal halide, high pressure sodium, low pressure sodium or light emitting diode (with correlated color temperature of 4000 Kelvin or less) fixtures mounted on supports attached to the construction machine at a height of approximately 13 feet.

**Page 14-24, Article 1413-5 CONSTRUCTION METHODS, lines 33-34**, delete and replace the third and fourth sentence in the first paragraph with the following:

Submit photometric calculations showing the minimum average maintained horizontal illuminance over the work area and the tower spacing to the Engineer for review and approval prior to installation.