

Surface Movement Guidance and Control System (SMGCS)

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Surface Movement Guidance and Control System (SMGCS)

- To enhance taxiing capabilities in low visibility with additional markings and lights
- Required for airports which have Air Carrier takeoff or landing operations with less than 1200 feet runway visual range (RVR)
- Requires airports to have a low visibility taxi plan
- Affects both aircrew and vehicle operators

Surface Movement Guidance and Control System (SMGCS)

 Special requirements are in effect for qualified airline crews when operating below
1200 RVR (Does not apply to Part 91 operators)

 Special markings and lighting are installed at airports to support SMGCS operations

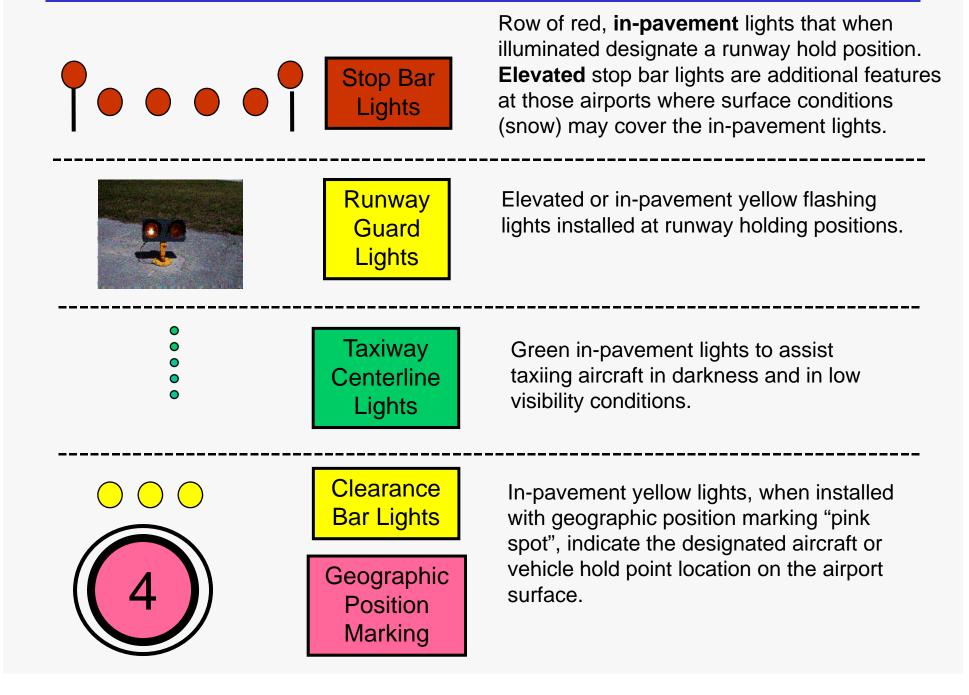
 Airports conducting SMGCS operations must also have a published SMGCS Plan

Surface Movement Guidance and Control System (SMGCS)

Two Levels:

- Below 1200 RVR down to and including 600 RVR
- Below 600 RVR

SMGCS Marking and Lighting Features

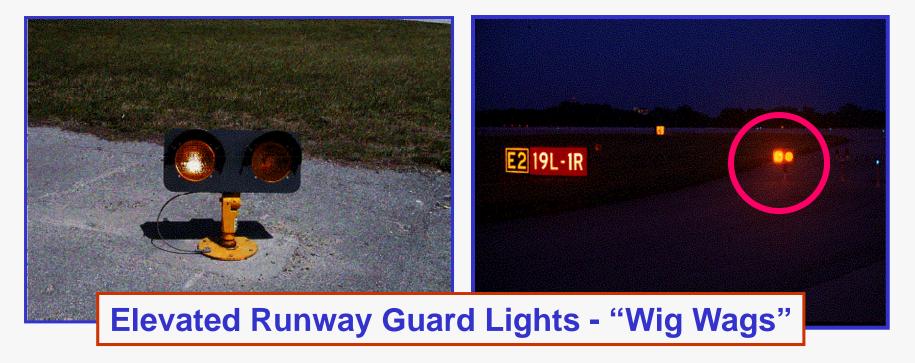


Pilot Visual Aids for SMGCS

Taxiway centerlines on SMGCS routes are 12 inches wide and highlighted in black.

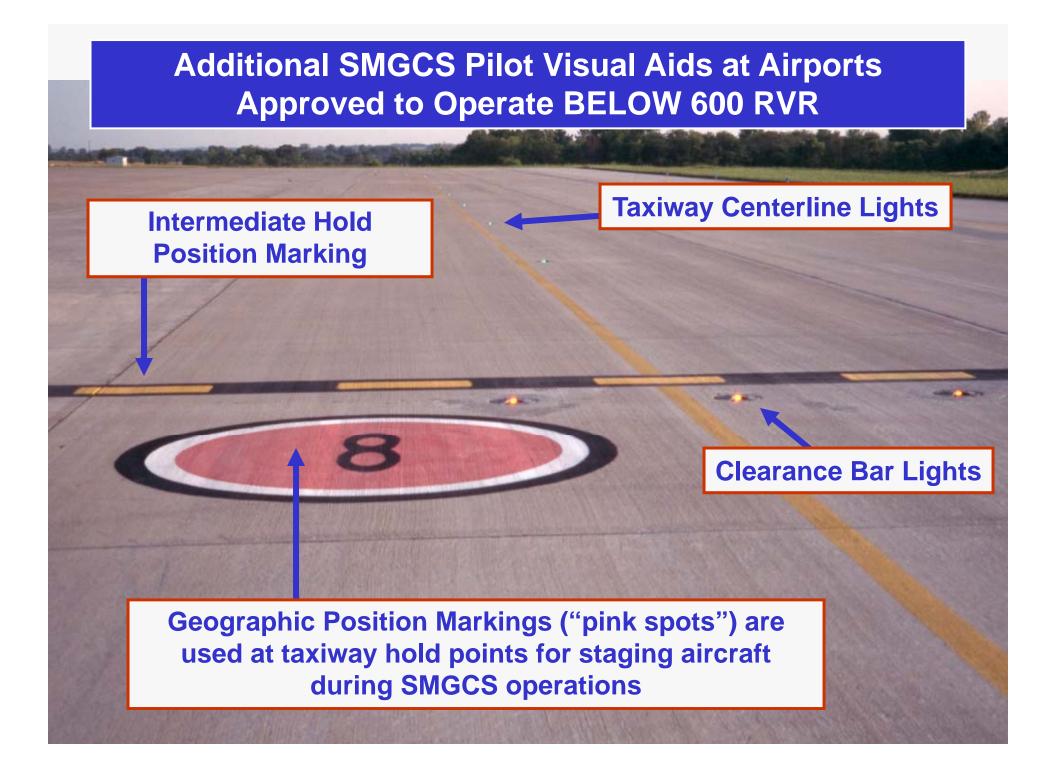
Pilot Visual Aids for SMGCS

Elevated runway guard lights "Wig Wags" are located on both sides of the hold position markings for SMGCS runways. If the runway intersection is over 150 feet wide, runway guard lights are installed in-pavement in front of the hold position marking at 10 foot intervals. These flashing yellow lights are used to enhance the identification of runway hold positions during low visibility operations. Runway guard lights may also be used at "high alert" intersections at other airports.



Pilot Visual Aids for SMGCS

Runway Guard Lights are installed at all hold positions for SMGCS runways



Additional SMGCS Pilot Visual Aids at Airports Approved to Operate BELOW 600 RVR

Taxiway Centerline Lights

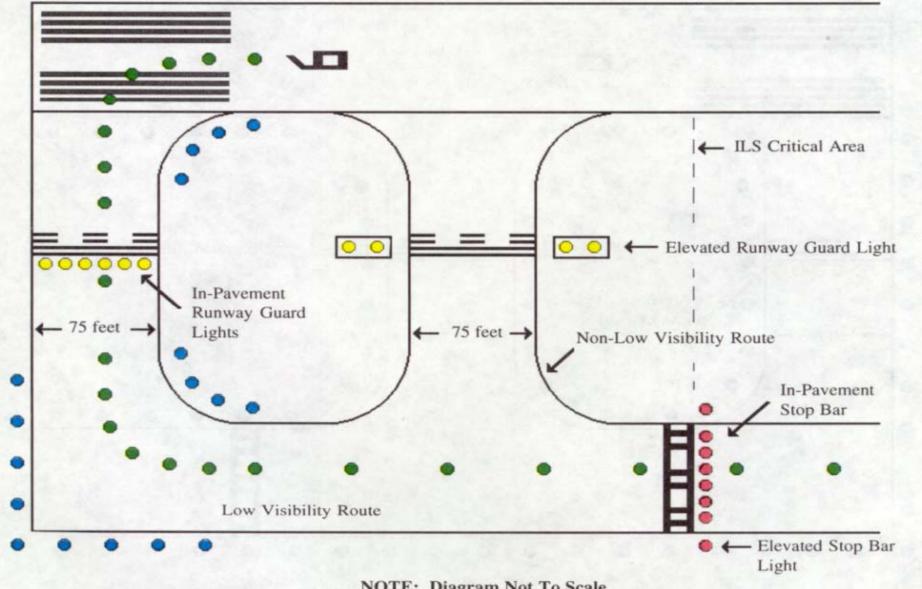
Clearance Bar Lights

To support airline operations below 600 RVR, Clearance Bars are installed at hold points on taxiways. Taxiway centerline lights are installed on all SMGCS routes

Additional SMGCS Pilot Visual Aids at Airports Approved to Operate BELOW 600 RVR

Stop Bar light fixtures are located across the taxiway pavement and are 9 feet 10 inches apart

Example of SMGCS Lighting - Below 600 RVR



NOTE: Diagram Not To Scale

