Sierra Nevada Corporation’s FAA Certification Pending

Radar-based Degraded Visual Environment Solution provides the ability to operate in degraded visual conditions (fog, pollution, snow, sand, dust, smoke, icing), while visually detecting obstacles including terrain. The system offers access to airfields, otherwise inaccessible, in order to maintain the flow of operation.

Lower minima operations in IMC with no ground infrastructure required
Capabilities

Aircraft Centric Operation
- Visual Approach
- No added dependency on ground aids
- No added runway augmentation with lights and markers
- Retains ability to divert to alternate destinations

Landing in Zero Visibility Ceiling (0/0) Conditions
- Retains ability to see (VFR-like) landing environment
- Runway incursion detection
- Detection of small obstacles/runway damage
- Terrain awareness

Benefits

Operational
- Fewer diversions
- Fewer cancellations
- Fewer departure and enroute delays

Intangibles
- Approach priority due to aircraft equipage
- Customer “Good Will”

Increased Flight Safety

Features

- Interface to customer selected cockpit display
- 94 GHz Frequency radar key to penetrating 0/0 conditions
- 3D imaging offers contour of terrain on approach, missed approach, and low false alarm detection of runway obstacles/incursion
- Fusion of IR Camera offers multispectral capability while eliminating any parallax of the IR image
- Terrain Database correlated to ground truth of radar provides vision beyond effective range of the radar to the horizon
- Integrated symbology

Runway Incursion