Terrain Awareness and Warning System (TAWS)

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Honeywell TAWS

- MK V EGPWS
- Multiple different alert functions
  - Basic modes 1-6
  - Enhanced functions
TAWS Alert Modes

• Mode 1- excessive decent rate
  – “Sink rate” or “pull up”
• Terrain clearance floor
  – “Too low terrain”
• EGPWS limitations on approach to landing
Mode 1 “Sink Rate” Alert

Radio altitude, ft, agl

Descent rate, fpm

“Sink rate”
Mode 1 “Sink Rate” Alert

Descent rate, fpm

Radio altitude, ft, agl

“sink rate”

“pull up”
Mode 1 “Sink Rate” Alert

Flight path

Airplane enters caution envelope

“sink rate”

pull up

Radio altitude, ft, agl

Descent rate, fpm
EGPWS Terrain Clearance Floor

Distance north of BHM runway18, nm

Altitude, ft, msl

DA = 1200 ft.

TCF envelope

“too low terrain”

Tree
**EGPWS Terrain Clearance Floor**

**Distance north of BHM runway 18, nm**

**Altitude, ft, msl**

- **DA = 1200 ft.**
- **Improved TCF envelope**
- **Terrain**

The graph illustrates the terrain clearance floor as a function of distance north of BHM runway 18, with the altitude measured in feet above mean sea level (msl). The graph includes a line representing the decision altitude (DA) of 1200 ft, with an improved terrain clearance floor envelope and terrain features indicated.
EGPWS Limitations on Approach

- Mode 2 - Excessive closure rate to terrain envelope substantially reduced
- Terrain awareness look-ahead alerting desensitized
- Terrain clearance floor less effective with high descent rates