SKYSAFE™

ENSURING SAFE OPERATIONS

THE OPTIMUM TOOL FOR AIRPORT OBSTACLE CLEARANCE COMPLIANCE

NEW

SKYSAFE™

Safe operations are the main priority for every airport. A critical component in achieving this involves the protection of departure and approach paths. SkySAFE assists with this challenge by allowing planners to precisely control and establish the multitude of existing or potential obstacles in an airport's surrounding environment.

SkySAFE ensures compliance with ICAO, FAA and a range of national regulations which, in turn, helps to ensure maximum safety in all aircraft operations. The software effortlessly creates the various obstacle surfaces through a series of built-in algorithms and analyzes the impact on these surfaces of any obstacle or terrain data that has been defined or imported.

>> Detailed single or multiple runway environments can be defined

>> Surfaces presented graphically in a 2D or 3D AutoCAD environment

>> Easily accessible icons and pull-down menus for systematic data entry

>> Easy integration of output into Airport Layout Plans or obstacle maps

>> Seamless integration in AutoCAD®, utilizing built-in 3D capability

>> Terrain data can be imported and included in analyses

>> Obstacles an be manually defined or imported

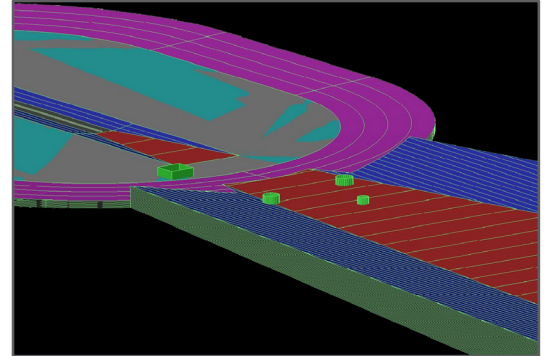*Compatible with AutoCAD® (not LT) 2007 to 2009 (32 bit) and 2010 and later (32 and 64 bit)*

TRANSOFT SOLUTIONS

SKYSAFE™

Core functionality for defining runway environments, defining individual obstacles and generating obstacle surfaces.

Regulations

- ICAO Annex 14
- United states of America (14 CFR Part 77 / FAA AC150-5300-13 / AC150-5300-18B)
- Germany (BMVBW)
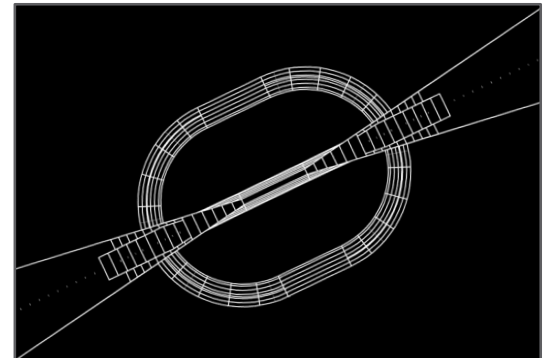- Canada (TP312 4th and 5th Editions)

Runway Definition

- Create runway environments; single or multiple runway scenarios, parallel or intersecting
- Define displaced thresholds, stopways, clearways and runway edges
- Define elevation points along the runway to ensure Transitional Surface accuracy
- Automatic Declared Distance calculations presented in visual format (LDA, TORA, TODA, ASDA)
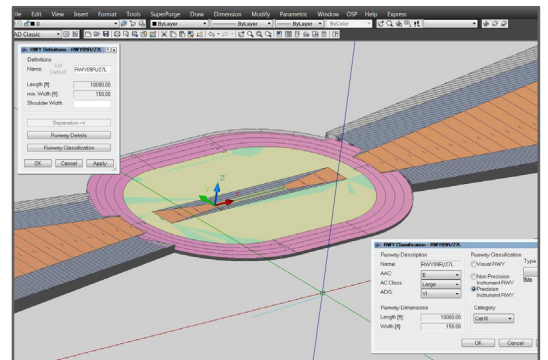- Define approach and departure scenarios, for each runway end

Buildings/Objects

- Manually define fixed or temporary obstacles
- Import positional data for fixed or temporary obstacles
- 3D depiction of obstacles that are penetrating the 3D surfaces
- Generate an overview information table for all obstacles in the session

Obstacle Limitation Surfaces

- Create Obstacle Surfaces and Free Zones
- Adopt/nominate an elevation datum for the entire airport or set values for individual runways
- Assess obstacle clearance to show object height at surface and amount of penetration, if applicable
- Include contour lines for height intervals as specified by the user
- View Obstacle Surfaces and Obstacle Free Zones in 2D and 3D
- Assess obstacle clearance to show terrain height at surface and amount of penetration, if applicable

General Administration

- Define Airport Reference Point coordinates
- Change layers and colors to create a CAD-based graphical depiction
- Control work using extensive administration options

Terrain/Heightfield

- Import data for the surrounding terrain, i.e. closely located mountains, hills or landmarks

Images

- Import images to create realistic models

TRANSOFT SOLUTIONS