	Federal Aviation Administration	**Airport Surveying-GIS Program** **Vertically Guided** **Airport Airspace Analysis Checklist**

Airport Name		City	State

Airport Identifier	Low End Runway Number	Elevation	High End Runway Number	Elevation

Instructions: Analyze the surfaces according to the following criteria for each runway end. Where an object meets multiple requirements (highest and most penetrating, highest and highest man-made etc.) reference the point only once. Left or Right side is relative to an observer facing forward in a landing aircraft.

1. Vertically Guided Runway Primary Surface (VGRPS) Evaluation

Section	Object	Object Elevation (ft.)	Object Selection
First 1/3 of runway (Left Side)			Highest Manmade object
			Highest Natural object
First 1/3 of runway (Right Side)			Highest Manmade object
			Highest Natural object
Second 1/3 of runway (Left Side)			Highest Manmade object
			Highest Natural object
Second 1/3 of runway (Right Side)			Highest Manmade object
			Highest Natural object
Third 1/3 of runway (Left side)			Highest Manmade object
			Highest Natural object
Third 1/3 of runway (Right Side)			Highest Manmade object
			Highest Natural object
Low numbered end of runway to 200 feet			Highest object outward from runway end to 200 feet
High numbered end of runway to 200 feet			Highest object outward from runway end to 200 feet

Paperwork Reduction Act Statement: This form is used to document source information about an airport or aeronautical facility which is part of the National Airspace System (NAS). This information is used to document airport data relating to the safety, security, or capacity of the national air transportation system. It is estimated that it will take approximately   5-80 hours to fill out the all of the necessary forms for a project depending on the complexity. No assurance of confidentiality is necessary or provided. It should be noted that an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a currently valid OMB control number. The OMB control number associated with this collection of information is 2120-0569. Comments concerning the accuracy of this burden and suggestions for reducing the burden should be directed to the FAA at: 800 Independence Ave. SW, Washington, DC, 20591, Attn: Information Collections Clearance Officer, AIO-20.

Airport Airspace Analysis – Vertically Guided			
2. Vertically Guided Primary Connection (VGPCS) Evaluation			
Analysis Exception: If the representative objects selected in the adjacent VGRPS section is higher, check the VGRPS object higher box and go to the next section.			
Section	Object	Object Elevation (ft.)	Object Selection
First 1/3 of runway (Left Side) ☐ VGRPS object higher			Highest Manmade object
			Highest Natural object
First 1/3 of runway (Right Side) ☐ VGRPS object higher			Highest Manmade object
			Highest Natural object
Second 1/3 of runway (Left Side) ☐ VGRPS object higher			Highest Manmade object
			Highest Natural object
Second 1/3 of runway (Right Side) ☐ VGRPS object higher			Highest Manmade object
			Highest Natural object
Third 1/3 of runway (Left Side) ☐ VGRPS object higher			Highest Manmade object
			Highest Natural object
Third 1/3 of runway (Right Side) ☐ VGRPS object higher			Highest Manmade object
			Highest Natural object
Low numbered end of runway to 200 feet (Right Side) ☐ VGRPS object higher			Highest object outward from runway end to 200 feet
Low numbered end of runway to 200 feet (Left Side) ☐ VGRPS object higher			Highest object outward from runway end to 200 feet
High numbered end of runway to 200 feet (Right Side) ☐ VGRPS object higher			Highest object outward from runway end to 200 feet

Airport Airspace Analysis – Vertically Guided			
Vertically Guided Primary Connection (VGPCS) Evaluation (continued)			
High numbered end of runway to 200 feet (Left Side) ☐ VGRPS object higher			Highest object outward from runway end to 200 feet

3. Vertically Guided Approach Surface (VGAS) Evaluation			
Section	Object	Object Elevation (ft.)	Object Selection
Entire VGAS			1st Most Penetrating
			2nd Most Penetrating
			3rd Most Penetrating
			4th Most Penetrating
			5th Most Penetrating
Within 10,200 feet of threshold (Left Side)			Highest Manmade object
			Highest Natural object
Within 10,200 feet of threshold (Right Side)			Highest Manmade object
			Highest Natural object
> 10,200 to 20,200 feet from threshold (Left Side)			Highest Manmade object
			Highest Natural object
> 10,200 to 20,200 feet from threshold (Right Side)			Highest Manmade object
			Highest Natural object

4. Vertically Guided Protection Surface (VGPS) Evaluation			
Section	Object	Object Elevation (ft.)	Object Selection
Right side of centerline			Highest Manmade object
			Highest Natural object
Left side of centerline			Highest Manmade object
			Highest Natural object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object

Vertically Guided Protection Surface (VGPS) Evaluation (continued)			
Section	Object	Object Elevation (ft.)	Object Selection
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object
Entire VGPS			Penetrating Object

Note: If more space is needed continue listing penetrations of the VGPS on a separate sheet of paper

5. Vertically Guided Approach Transition Surface (VGATS) Evaluation			
Section	Object	Object Elevation (ft.)	Object Selection
Right side of centerline (Section 1)			Highest manmade object
			Highest natural object
			Most penetrating
Right side of centerline (Section 2)			Highest manmade object
			Highest natural object
			Most penetrating

Vertically Guided Approach Transition Surface (VGATS) Evaluation (continued)			
Section	Object	Object Elevation (ft.)	Object Selection
Left side of centerline (Section 1)			Highest manmade object
			Highest natural object
			Most penetrating
Left side of centerline (Section 2)			Highest manmade object
			Highest natural object
			Most penetrating

6. Vertically Guided Horizontal Surface (VGHS) Evaluation			
Section	Object	Object Elevation (ft.)	Object Selection
Quadrant 1			1st Highest Object
			2nd Highest Object
Quadrant 2			1st Highest Object
			2nd Highest Object
Quadrant 3			1st Highest Object
			2nd Highest Object
Quadrant 4			1st Highest Object
			2nd Highest Object

7. Vertically Guided Conical Surface (VGCS) Evaluation			
Section	Object	Object Elevation (ft.)	Object Selection
Quadrant 1			Highest Object
			Most Penetrating
Quadrant 2			Highest Object
			Most Penetrating
Quadrant 3			Highest Object
			Most Penetrating
Quadrant 4			Highest Object
			Most Penetrating

Notes or Remarks:

Notes or Remarks (continued):