



**Federal Aviation
Administration**

Airport Surveying-GIS Program

**Imagery Plan
for AC 150/5300-17**

Airport Name	State	Location Identifier
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Submitting Organization Information		
Name:		
Address Line 1:		
Address Line2:		
City:		
State:		
Zip Code:		
Telephone Number:		
Fax Number:		
Contact Person Name:		
Contact Person Email Address:		

1. Briefly describe the purpose for acquiring the aerial imagery for the airport and describe how it will support meeting the data requirements in AC-18. You should describe what runway end approaches will be surveyed for obstacles, what surfaces to are to be evaluated and what survey standards the survey will be conducted in accordance with (AC-18A or AC-18B). The plan should also clearly identify what runway and NAVAID data are required to be surveyed in this particular survey. Identify the target flying height(s) proposed and the mapping scale anticipated for use in the project. In this section, discuss how the proposed flying height(s) will achieve the required accuracy for the purpose of the survey.
2. Describe in detail the collection methodology the contractor proposes for imagery acquisition. Explain in detail what tools, methods and processes that will be employed from inception to completion to meet the requirements in a narrative format. At a minimum this section must discuss the following items:
 - a. The number of proposed flight lines. Provide as part of the plan an imagery (ground) control network diagram and flightline layout.
 - b. Describe in detail what method the contractor proposes to geo-reference the imagery (such as by aerotriangulation, direct GPS/IMU observations or both) within acceptable accuracies.
 - c. Provide an ASCII text file detailing the position of the proposed imagery control stations the contractor proposes to use in the project.
 - d. Describe in detail how the contractor proposes to extract airport feature from the imagery within the required accuracies.
 - e. Describe in detail the remote sensing method proposed for use to identify, locate, and observe the required objects within the required accuracies.
3. Describe in detail the quality control procedures and practices proposed for use during and following data collection. Detail how the submitting organization will ensure the traceability and adherence to the requirements of the General Specifications standard. At a minimum, the plan will include the following:
 - a. Briefly summarize the methods used to ensure high-quality data.
 - b. Describe the quality control measures the contractor uses to ensure the data is checked, complete, reliable, and meets the accuracy requirements (including error analysis) in these general specifications.
 - c. Describe the evidence the submitting organization will provide to demonstrate how methods used to collect the various types of features met the desired accuracies.
 - d. Describe the procedure and policies the contractor uses to backup and archive the collected data.

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| <ul style="list-style-type: none">e. Detail the procedures and methods used by the contractor to ensure the original data is not modified once collected.f. Describe and explain the method used to check all file formats and a summary of the file-naming convention for all electronic files. |
| <p>4. Provide a complete listing of the equipment the contractor proposes to use in the survey, including model and serial numbers, specifications, calibration reports, and equipment maintenance reports for the field (aerial) and office equipment and software used. The contractor must provide the appropriate Calibration Certificate for the aerial camera(s) proposed for use in the project. This calibration certificate must be dated within 3 years of the estimated completion of the collection. If using a digital camera, provide the calibration report and/or the manufacturer's recommended equivalent procedure. If a manufacturer recommended procedure is provided, a Statement of Compliance on company letterhead will be submitted.</p> |
| <p>5. Provide a generalized schedule identifying anticipated imagery acquisition dates, delivery of required data and information to NGS, and expected delivery of orthoimagery to the FAA.</p> |
| <p>6. Other comments or remarks regarding the project. Use this section to provide additional information the contractor feels is important or relevant to the project not previously identified.</p> |