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| **Table 4.1. Pre-flight Operations Plan**   | **Contents**  | **Format**  |
| Flight Operations Plan  | • Planned flight lines SHP file• Planned GPS stations MIMN, MIOG, MITC, SUP2, WIM5• Planned control GCPs Folder• Planned airport locations KGRB• Calibration plans IN FLIGHTPLAN• Quality procedures for flight crew (project-related for pilot and operator) No collection in precip, on the fly Swath check• Planned scanset (sensor settings and altitude) FP Jpeg• Type of aircraft Piper PA-23 AZTEC• Procedure for tracking, executing, and checking reflights CHECK SWATH DATA IN FIELD AND SEND SWATHS TO PICTOMETRY FOR REVIEW• Considerations for terrain, cover, and weather in project CREW CONSTANTLY MONITORING WEATHER, DEM IMPORTED INTO FLIGHTPLAN TO CHECK FOR ELEVATION CONCERNS | MS Word or PDF  |

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| **Table 4.2. Post-flight Aerial Acquisition and Calibration Report** **Item**  | **Contents**  | **Format**  |
| GPS Base station info  | • Base station name • Latitude/Longitude (ddd-mm-ss.sss) • Base height (Ellipsoidal meters) • Maximum Position Dilution of Precision PDOP • Map of locations WIKEWA Bases KMZ | Excel, TXT, MS Word, or PDF for data; ESRI shape file for map of locations (data and info may be in attribute table)  |
| GPS/IMU processing summary  | • Max Horizontal GPS Variance (cm) • Max Vertical GPS Variance (cm) • Notes on GPS quality (High, Good, etc.) • GPS separation plot • GPS altitude plot • PDOP plot • Plot of GPS distance from base station/s  | MS Word or PDF with screenshots  |
| Coverage  | • Verification of project coverage WIKEWA Coverage shp | ESRI shape files reflecting the actual coverage area and not the applicable tiles.  |
| Flights  | • As-flown trajectories • Calibration lines  | ESRI shape files  |
| Flight logs  | • Incorporated as appendix Should include: • Job # / name • Lift # • Block or AOI designator • Date • Aircraft tail number, type • Flight line, line #, direction, start/stop, altitude, scan angle/rate, speed, conditions, comments • Pilot name • Operator name • AGC switch setting • Laser pulse rate • Mirror rate • Field of view • Airport of operations • GPS base station names or numbers Comments  |
| Control  | • Ground control and base station layouts  | ESRI shape files  |
| Data verification/QC  | • Opened each individual tile and made manual corrections where necessary.Description of data verification/QC process • Results of verification and QC steps  | MS Word, Excel or PDF  |
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