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NEXUS 800 Demonstration for NCDOT

By Christine Roca

In November, we had the unique opportunity to demo our NEXUS 800 UAV system for the NCDOT. Jerry Knisley, HYPACK Tech Support Manager, gave a one-hour demonstration to members of both the hydrographic and photogrammetry departments. Jerry was able to survey 17 acres in just 8 minutes!! This type of survey could take several days if done by traditional means and the coverage would not be nearly as complete. Since the NEXUS is equipped with both a Velodyne LiDAR and a Canon camera, attendees from both departments saw several opportunities for cross-usage between them and other offices within the NCDOT.

For those who may not be familiar with the system, the NEXUS 800 is a complete turn-key aerial vehicle with a robust payload that includes LiDAR, INS and photogrammetry (RGB & thermal cameras). The UAV mission planning, data acquisition and processing is all handled within HYPACK®. If you are familiar with the multibeam programs in HYPACK®, then data acquisition and processing of UAV data is an easy step for you! Whether the data is collected on the water or in the air, it is all the same in HYPACK®, so there is no learning curve for the software application with the NEXUS 800.

Examples of the ideal projects in which to implement the NEXUS 800 UAV System are:

- Preliminary site feasibility studies
- Power line surveys
- Damage assessments/disaster relief
- Insurance assessment surveys
- RF assessments
- Construct progress assessments
- Bridge/dam/structural assessments
- Mining
- Beach erosion/shoreline assessment/storm surge studies
- Environmental monitoring
- Vegetation, forestry & agricultural surveys

We will be holding a few demonstrations of the NEXUS 800 next year. If you are interested in attending one of these demonstrations and would like to be notified when and where they are scheduled, please contact Christine or Lourdes at sales@hypack.com or call (860) 635-1500. Also, please contact us if you would like to be provided with more information regarding the NEXUS 800 or would like to receive a quote.