

## **LIDAR Forward-Looking Turbulence Detection System**

**LEAD AGENCY/POINT OF CONTACT:** NASA/Shari-Beth Nadell, GRC, 216-977-7035, <Shari-Beth.Nadell@grc.nasa.gov>

**TRAINING POINT OF CONTACT:** Rod Bogue, DFRC, 661-258-3193, <rod.bogue@dfrc.nasa.gov>

**PROGRAM/PROJECT DESCRIPTION:** This is a Cooperative Research Agreement with Coherent Technologies to develop the capability to detect clear air turbulence with an airborne sensor system.

### **I. TRAINING REQUIREMENTS:**

|                    |  |
|--------------------|--|
| <b>A. Trainees</b> | <b>B. Skill Level of Designated Trainees</b> |
|--------------------|--|

|               |  |
|---------------|--|
| <b>Pilots</b> |  |
|---------------|--|

|              |   |
|--------------|---|
| ⇒ Commercial | First Officer <input checked="" type="checkbox"/> Captain <input checked="" type="checkbox"/> |
|--------------|---|

|                    |   |
|--------------------|---|
| ⇒ General Aviation | Air Transport <input checked="" type="checkbox"/> |
|--------------------|---|

|                                 |
|---------------------------------|
| <b>C. Training Required</b> TBD |
|---------------------------------|

### **II. TRAINING DEVELOPMENT/DELIVERY**

|                                       |
|---------------------------------------|
| <b>A. Training Program Status</b> TBD |
|---------------------------------------|

Other: NASA is working with the FAA and industry to develop technology, alerting, and certification requirements; development of training guidelines may result from the definition of alerting requirements for an airborne turbulence detection system.

|                               |
|-------------------------------|
| <b>B. Training Method</b> TBD |
|-------------------------------|

Other: Training method would be similar to that required for use of weather radar.

|   |
|---|
| <b>C. Training Delivery Resources</b> TBD |
|---|

Other: Training delivery resources would be similar to those in place for use of weather radar training.

|                             |
|-----------------------------|
| <b>D. Training Provider</b> |
|-----------------------------|

Private Sector/Industry (e.g. Airlines, Flight Safety, Inc.)

|                                    |
|------------------------------------|
| <b>E. Training Measurement</b> TBD |
|------------------------------------|

|                                   |
|-----------------------------------|
| <b>F. Training References</b> TBD |
|-----------------------------------|

|   |
|---|
| <b>G. Training Completion Documentation</b> TBD |
|---|

### **III. TRAINING IDENTIFICATION/DESCRIPTION**

|                                   |
|-----------------------------------|
| <b>A. Training Identification</b> |
|-----------------------------------|

TBD

|                           |
|---------------------------|
| <b>B. Training Length</b> |
|---------------------------|

TBD

|                      |
|----------------------|
| <b>C. Group Size</b> |
|----------------------|

TBD

|                                    |
|------------------------------------|
| <b>D. Trainer to Trainee Ratio</b> |
|------------------------------------|

TBD

|  |
|--|
| <b>E. Point of Contact to Request Training</b> |
|--|

TBD