

**TURBULENCE RESEARCH TEAM (#7)**  
**TECHNICAL DIRECTION (ESRL)**  
**FY 2007**

General Instructions:

1. A detailed quarterly Progress Report will be submitted by the 15<sup>th</sup> of October 2006 and January, April, and July 2007 describing efforts performed in support of all Turbulence Research Team (TRT) tasked activities. A high level Monthly Progress Report will be submitted by the 15<sup>th</sup> of November and December 2006 and February, March, May, June, August, and September 2007 summarizing TRT efforts towards goals and milestones, and include its financial status report.

Quarterly Progress Reports shall contain efforts by activity presented as follows:

- a. Current Efforts (quarter just completed)
- b. Planned Efforts (for next reporting period)
- c. Problems/Issues/Schedule Changes Encountered or Anticipated
- d. Interface with other organizations (other than Core RT member organizations)
- e. Summary of funding status, planned versus actual expenditures

Monthly Progress Reports shall contain a high level summary (about one page in length) of **overall TRT activities** presented as follows:

- a. Current Efforts (month just completed)
- b. Planned Efforts (for next reporting period)
- c. Problems/Issues/Schedule Changes Encountered or Anticipated

2. The TRT Plan shall be updated to include activity planning for the seven-year period from FY 2008 through FY 2014 no later than April 1, 2007. It shall be sent to Gloria Kulesa by that date.

3. Program Reviews as scheduled by the Program Office will be conducted per the agenda to be supplied by the Program Office ~~prior~~ to the scheduled review.

4. All deliverables, technical reports, documentation to industry, press releases, and briefings shall be reviewed and approved by the Program Manager (PM), or designee, **prior** to **External** distribution. Approval shall be requested of the PM or designee **before** exhibiting at conferences, symposiums, etc. The following statement shall be included in all research papers, journal articles, documents, announcements, etc.:

“This research is in response to requirements and funding by the Federal Aviation Administration (FAA). The views expressed are those of the authors and do not necessarily represent the official policy or position of the FAA.”

5. In taskings specifically stating "as authorized by the Program Office", authorization must be in writing from the Program Manager, or designee.
6. The TRT shall not contact any FAA regional, headquarters, or air traffic control facility, in writing or orally, without first notifying the Program Office for approval.
7. Copies of all monthly and quarterly Progress Reports, technical papers, etc., shall be submitted electronically to ATO-P, Gloria Kulesa with copies to the TRT and to the following: (see Attachment 1 for e-mail addresses) (**note: distribution list updated; ensure new addressees list is instituted**)
  - FAA Operations Planning R&D (Warren Fellner, Jackie Queen)
  - FAA Weather Policy and Standards (Rick Heuwinkel, Debi Bacon)
  - FAA William J. Hughes Technical Center (Tom Carty, Starr McGettigan, Victor Passetti)
  - FAA Operations Planning Systems Engineering (Cheryl Souders)
  - NCAR (Bruce Carmichael, Marcia Politovich, Roy Rasmussen, Bob Sharman, Greg Meymaris)
  - NOAA NSSL (Kim Elmore)
  - NOAA ESRL (Mike Kraus, Lynn Sherretz, Stan Benjamin, Jennifer Mahoney)
  - NRL (Ted Tsui)
  - NWS HQ (Mark Andrews, Kevin Johnston, Celia Miner)
  - NCEP AWC (Clinton Wallace)
  - NCEP EMC (Geoff DiMego)
  - MIT LL (Mark Weber, Marilyn Wolfson)
  - OFCM (Mary Cairns)
  - NASA (John Murray)
  - CIMSS, Univ of Wisconsin (Wayne Feltz)
  - WARP Program (Jim Stobie)
  - ITWS Program (Thad Carpen)
8. Costs not to exceed \$35,000 (which is the cumulative amount of "old and new" funds allocated from Oct '06 – Sep '07) shall be expended by ESRL in performance of the specific taskings of this Technical Direction.
9. Any funding identified as contingent funding may be funded if the indicated conditions are reached; as with all funding decisions, contingencies will be subject to Program Office consideration reflecting evolving priorities.
10. Although it is intended that funding allocated per fiscal year be expended within that specific fiscal year, consideration will be taken for taskings not completed due to unforeseen circumstances. Upon receipt of written notification from the Program Office, funding for uncompleted tasks shall be carried over to the next fiscal year.
11. ESRL shall notify the FAA CO (Elisa Brown) and the COTR, via e-mail, whenever they have reason to believe that the costs they expect to incur in the next 60 days, when added to all

costs previously incurred in FY07, will exceed 80 percent of the amount allocated to them for TRT tasking. ESRL shall also indicate whether exceeding the 80 percent level is a positive or negative variance based on their budget plan.

12. Until further notice all travel must be approved in advance by the COTR, and funding to attend any conference, symposium, etc. will not be approved. Additionally, contractual travel vs. overhead travel shall be broken out on the monthly financial status report.

### **FY 07 Specific Tasking for TRT (\$13,500 to ESRL)**

#### **07.7.1 *Detection of En Route Turbulence (\$13,500 old, \$21,500 new to ESRL)***

Provide real time quality controlled UAL in-situ data to approved users via Experimental ADDS and the ESRL web sites. As available, provide real-time quality controlled SWA and DAL in-situ data to approved users via Experimental ADDS and the ESRL web sites.

07.7.1.2.1 Continue development and maintenance of a web-based turbulence detection product at ESRL, integrated with other AMDAR data. Develop and upgrade as needed software to ingest qc'd in-situ eddy dissipation rate (EDR) data from NCAR. Maintenance tasks include: incorporating user feedback as appropriate, coordinating data formats and data flow from ESRL; maintaining infrastructure to ingest and archive data.

07.7.1.2.1E1 Apr '07: Status of EDR downlink/web site maintenance presented at AWRP PMR  
07.7.1.2.1E2 Aug '07: Status report on EDR downlink and web site maintenance

### **FY07 TRT FUNDS ALLOCATION FOR ESRL**

<b>Task</b>	<b>Description</b>	<b>\$ ESRL</b>
07.7.1	Detection of Enroute Turb.	35,000

**Attachment 1, Email addresses**

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