



# National Weather Service

## OA Q1FY11 Quarterly Report – December 31, 2010

### NWS Telecommunications Gateway

**R** Current Qtr Customer Business & Strategic Results

- Mission & Business Results: Backup NWSTG fully operational within 12 hours of primary system failure: Limited backup – AWIPS only
- Mission & Business Results: Number of NWSTG functions the Backup Gateway can back up within 12 hours: 4 of 19
- Customer Results: NWSTG system availability of 100%
- Process & Activities: Maximum transit time for warning messages of .65 seconds (system latency)
- Technology: % of POAMS over 120 days < 10%: 113 POAMs with 0 > 120 days

**R** Next Qtr Customer Business & Strategic Results

- Mission & Business Results: Backup NWSTG fully operational within 12 hours of primary system failure: Limited backup – AWIPS only
- Mission & Business Results: Number of NWSTG functions the Backup Gateway can back up within 12 hours: 4 of 19
- Customer Results: NWSTG system availability of 99.9% or more
- Process & Activities: Maximum transit time for warning messages of 1 second or less (system latency)
- Technology: % of POAMS over 120 days < 10%: 113 POAMs with 0 > 120 days

**R** Risks, Issues, and Innovations

Issues/Risks

- Critical system deficiencies
  - Lack of redundant backup
  - Aging infrastructure
  - Outdated architecture
- NWS implementing 2-part program to address these issues
  - Technical Re-alignment to tech refresh the NWSTG and implement a fully functional BTG
  - Technical Re-architecture to design and implement a new system architecture to meet future data collection and data volume requirements

Innovations

The NWSTG Re-architecture will investigate new concepts including the use of data centers, virtualization and Cloud computing to minimize life-cycle costs while providing required system performance.

**Y** Planned & Actual Expenditures (FY11)

Milestones	Planned Cost	Actual Cost	Variance *
TG Operations	\$1.50M	\$1.21M	20%
TG Hardware Maintenance	\$0.20M	\$0.14M	29%
TG Software Maintenance	\$1.00M	\$0.42M	58%
BTG Hardware Maintenance	\$0.10M	\$0.03M	74%
BTG Software Maintenance	\$0.25M	\$0.08M	70%
BTG Telecommunications	\$0.35M	\$0.11M	70%
TG/BTG Technology Refresh	\$0.50M	\$0.14M	71%

\* Variances have not impacted operations. However, efforts to implement tech refresh to address the aging infrastructure have been delayed which continues the current risks to operations.

**R** Red = Management attention required

**Y** Yellow = Potential management action required

**G** Green = Necessary and on-track