



NEXRAD Product Improvement Dual Polarization Beta Test & Deployment Update

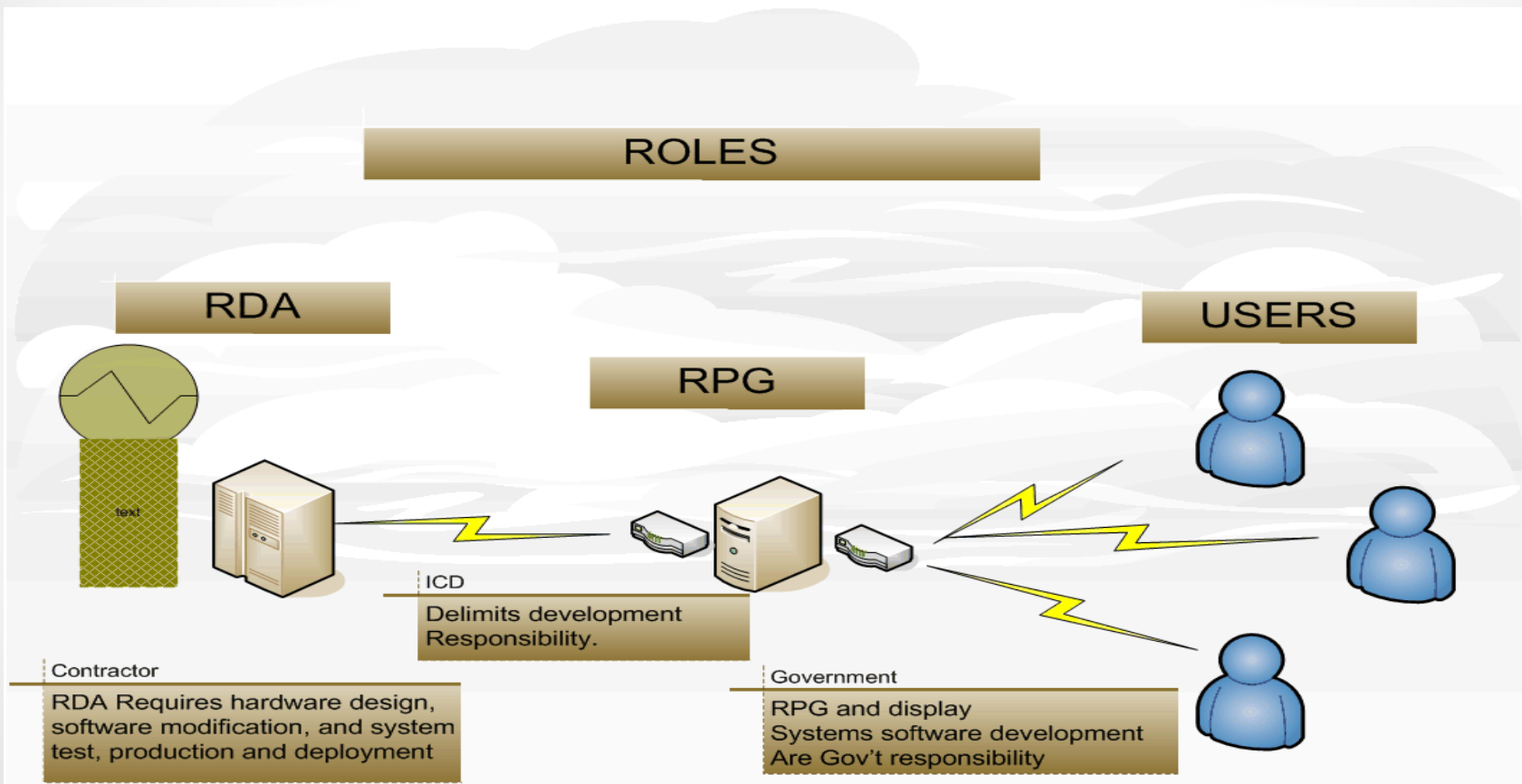
Office of Science and Technology

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Dual Polarization Team





Contracts

- L3 Communications, Baron Services and Essco responsible for RDA portion of modification
 - Contract office in GSA
- December 2010 – Contractor did not pass Maintenance Demonstration
 - Technical Manuals not ready to support deployment
 - Contractor developed recovery plan
 - Delays start of Beta Test
 - Originally scheduled to deploy to Wichita January 2011


















Recovery

- Production deployment begins in 4FY11
 - Government and L3 work with field sites to develop “flexible” schedule
 - Constraint: Desirable to have overlapping coverage available during deployment
 - Constraint: Avoid deployment during periods when probability of local severe weather is high
 - Number of deployment teams under discussion
- Risk reduction initiatives
 - Early configuration of Vance radar
 - Run radar uninterrupted for extended period to validate reliability and stability and obtain complementary data to KOUN prototype
 - Government develops unambiguous method to validate L3 calibration meets specification
 - Early reconfiguration of Pedestal radar
 - Provides resource to validate L3 meets maintenance specification
 - Frees KOUN for refining calibration techniques
- Delays Beta Test Readiness Review till May 24, 2011












NEXRAD Dual Polarization Pre-Beta Test Readiness Review Schedule

NEXRAD DUAL POLARIZATION PROPOSED REVISED OPERATIONAL TEST PHASE SCHEDULE

	Targeted Installation Date	Jan 2011	Feb 2011	Mar 2011	Apr 2011	May 2011
Vance (KVNX) Installation and Data Collection	Install – 2/11/ - 3/4/11 Data – On-going				KVNX Operations	
KOUN Data Collection	On-going		KOUN Operations			
Update Technical Manual Illustrations and Engineering Drawings to document system improvements	2/7 – 3/11/11				MDemo	
Update Calibration Procedures	3/7 – 3/11/11					
PTF Installation	3/14 – 3/25/11					
Verification of Technical Manual Documentation updates at PTF (RF Flowcharts & R&R Procedures Only)	3/28 – 4/1/11					
Validate Calibration Procedure updates at KOUN	4/4 – 4/5/11					
ROC Finalize and Print Technical Manuals	4/6 – 4/15/11					
Conduct EI-Tech training (PTF)	4/11 – 4/15/11					
M-Demo 2 (PTF + KOUN)	4/18 – 4/29/11					
Conduct ESSCO Training (PTF)	5/2 – 5/6/11					
BTRR Preparation	5/2 – 5/6/11					
BTRR	5/24/11					

NEXRAD Dual Polarization Beta Test Phase Schedule

NEXRAD DUAL POLARIZATION BETA SITE DEPLOYMENT SCHEDULE

	Targeted Installation Date	May 2011	June 2011	July 2011	Aug 2011	Sept 2011
BTRR – Single Thread	5/24/11					
Vance (KVNK) Beta Test Start	5/24/11					
Wichita (KICT)	6/1 – 6/21/11		 			
Phoenix (KIWA)	6/27 – 7/11/11		 			
Morehead City (KMHX)	7/18 – 7/29/11			 		
Chicago (KLOT)	7/18 – 7/29/11			 		
DRR – Single Thread	9/6/11					



Considerations

- Schedules are proposed
- Vance replaces Ft Polk as DOD Beta Site
 - Require coordination with the Regions/Forecast Offices
- Extensive pre-installation will take place with all sites
- Coordinate Maintenance and Operations Training to ensure sites are ready for installation



NPI Science Improvement Activity

- DOC directed no NPI funding be spent on Program Management and Science Improvement in FY10 and FY11
 - All funding directed to Dual Polarization
- Impacts support by OS&T/SEC, OHD and NSSL among others
- NOAA/NWS management assessing alternatives
- Continues as a risk