CONFIGURATION CHANGE REQUEST (CCR) Part A

CCR SEQUENCE NUMBER

USCRN2005-26

1. BASIS FOR CCR

___ CORRECTIVE

___ PROBLEM PREVENTION

_X_ IMPROVEMENT

2. SUBMITTING AUTHORITY (Name & Org Code)

Mark Hall OAR/ATDD

3. PHONE NUMBER

865-576-0366

4. SUBMISSION DATE

April 11, 2005

5. COGNIZANT TECHNICAL INDIVIDUAL
Mark Hall

6. PHONE NUMBER
865-576-0366

7. TITLE OF CHANGE

USCRN high data rate transmitter antenna model and manufacturer change.

8. TYPE OF CHANGE

_X_ HARDWARE ___ SOFTWARE

___ DOCUMENTATION ONLY

9. EFFECTIVITY

___ SYSTEM

_X_ SPECIFIC SITE

10. STATEMENT OF REQUIREMENT, PROBLEM, OR DEFICIENCY

When severe icing conditions occur, the high data rate GOES transmitter antenna currently deployed at USCRN sites will sometimes accumulate enough ice buildup to temporarily disrupt proper operation of the antenna. The standard antenna deployed is Model TGA-200 manufactured by Telonics, Inc.

11. KNOWN OR PROPOSED SOLUTION

Stevens Water Monitoring Systems, Inc. manufactures an antenna (Model V4TH) designed to eliminate transmission problems due to icing and compatible with current USCRN site configuration.
The V4TH was installed at Barrow and Fairbanks AK to test the performance, and had made a major improvement in data recovery.
There is no coct difference between the TGA-200 and the V4TH.
The recommendation is to replace current antennas with this unit throughout the USCRN system.

12. REQUIRED CHANGE DATE

13. RATIONALE FOR REQUIRED CHANGE DATE

14. RISK FACTOR FOR CHANGE

_X_ LOW ___ MEDIUM ___ HIGH

15. DECISION AUTHORITY LEVEL

___ FAST TRACK (* e.g.; correct documentation)

___ USCRN CCB ONLY ___ PMC

16. USCRN CCB DISPOSITION

_X_ APPROVED

___ DISAPPROVED

___ RECOMMEND APPROVAL

17. AUTHORIZING SIGNATURE

/s/ Richard G. Reynolds

18. DISPOSITON DATE

13 April 2005

19. PMC DISPOSITION

___ APPROVED

___ DISAPPROVED

20. AUTHORIZING SIGNATURE

21. DISPOSITION DATE

CONFIGURATION CHANGE REQUEST (CCR) Part B	CCR SEQUENCE NUMBER USCRN2005-26

1. APPROVED SOLUTION
Transition the USCRN site antenna to the Stevens Model-V4TH, as funding allows.
Focus on sites prone to icing, and all new installations.
Reuse of the TGA-200 antenna is acceptable at site not subject to icing, until full deployment can be supported.

2. WORK AUTHORIZATION NUMBER	3. ASSIGNED ACTION ENGINEER

FUNDING INFORMATION	FUNDING SOURCE	COST DATA
4. DEVELOPMENT COSTS		
5. OPERATIONAL TEST AND EVALUATION COSTS		
6. PRODUCTION COSTS		
7. COMMUNICATION SERVICE/CIRCUIT COSTS		
8. IMPLEMENTATION SUPPORT COSTS		
9. LIFE CYCLE SUPPORT COSTS		
10. TOTAL ESTIMATED COSTS		

SUPPORT INFORMATION AND SCHEDULES

11. DEVELOPMENT SCHEDULE & STATUS	12. PROCUREMENT SCHEDULE & STATUS
13. IMPLEMENT/RETROFIT SCHEDULE & STATUS As funding allows, and during visits to existing sites for other purposes. (e.g., site visits shall not be done for the sole purpose of antenna installation)	14. REQUIRED CLEARANCES/WAIVERS/LICENSES
15. PHYSICAL ITEMS & DOCUMENTS AFFECTED	16. LOGISTICS IMPACTS
17. OPERATIONS IMPACTS	18. STAFF RESOURCES IMPACTS

IMPLEMENTATION

19. PLANNED IMPLEMENTATION DATE	20. CHANGE NOTICE NUMBER
21. CHANGE NOTICE ISSUE DATE	22. CHANGE COMPLETION DATE