Radio-On-A-Chip
Honeywell-NASA Cooperative Research Agreement (CRA)

PROGRAM/PROJECT: Weather Accident Prevention Project/Weather Information Communications
LEAD AGENCY/COLLABORATING AGENCIES: National Aeronautics and Space Administration (NASA)
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SERVICE AREA (S)/INITIATIVE (S)

- ***National Aviation Weather Initiatives:***
  1: 6 **2:** 3 **3:** 4 **5:** 3 **6:** 3 **7:** 4 **8:** 4

FUNDING

- ***Programmed/Planned ($'s/FY):*** /FY03 /FY04

TYPE OF PROGRAM/APPLICATION

R&D

SCOPE OF PROGRAM/PROJECT

- ***What's being developed, procured, etc.:*** *technologies and prototype to enable display of graphical weather information in general aviation aircraft via data link using handheld low cost VDL avionics.*
- ***How will operations be changed/improved:*** *new weather information technologies will provide a capability to display graphical, intuitive weather information in general aviation cockpits, leading to improved situational awareness and improved decision making by General Aviation pilots with respect to weather hazards, assisting in the reduction of aircraft accidents attributable to weather.*

PROGRAM/PROJECT MANAGEMENT

- ***Basic guidance document for this program:*** WxAP Project Plan.
- ***Program/Project verification process:*** NASA sponsored annual Weather Accident Prevention reviews, Aviation Safety Program Executive Council reviews, and reviews/audits at the project/element level.
- ***Method used for end product validation:*** Combination of (a) system-level modeling and simulations, (b) laboratory-based experiments and (c) flight experiments via appropriate industry and/or NASA research aircraft. Many of these validation efforts are performed under cost-shared cooperative research agreements with industry partners.
- ***Operational training for the user:*** Training guidance for the use of new graphical weather information technologies will be developed in conjunction with the AvSP System Wide Accident Prevention (SWAP) project.

SCHEDULE/IMPLEMENTATION

- ***Next major program milestone:*** N/A
- ***Program becomes operational:*** CRA will end in Jan'04.
- ***Plans for further improvements:*** N/A