Project Summary
Rocky Mountains Cooperative Ecosystem Studies Unit

Project Title: Revise CADEnCE Condition Assessment Program

Discipline: Cultural
Type of Project: Technical Assistance
Funding Agency: National Park Service
Other Partners/Cooperators: Colorado State University
Effective Dates: 9/1/2010 – 12/31/2011
Funding Amount: $10,000

Investigators and Agency Representatives:

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Project Abstract: As the Nation's principal historic preservation agency, the National Park Service (NPS) developed and utilized a standardized system of inspecting and evaluating the condition of National Historic Landmark properties written a expired version of Dbase. In 2007 NPS agreed to provide technical assistance to Air Force Space Command (AFSPC) in helping to develop a condition assessment program to meet the needs to maintain and preserve their unique cultural resources based on the NPS program. This work was completed in 2009. An opportunity now exists to modify the AFSPC program called CADEnCE to meet NPS needs for providing assistance to National Historic Landmarks, the highest level of historic recognition, now exists. The program as written works well, but will need modification to remove AFSPC specific language and add NPS criteria and data fields.

The following project goals will provide the overall direction of the project and include the following:

1. Revise CADEnCE a cultural resources condition assessment methodology that uses a standardized system of inspecting and evaluating the physical condition of historic buildings and structures. A revised CADEnCE will provide a process for in-depth inspections to assess the condition of deteriorated and damaged buildings and structures and their components that provide historic property owners with valuable information to help them preserve and secure maintenance and repair funding with the objective to help to improve the overall condition of National Historic Landmarks. The revised condition assessment methodology should establish a useful format to evaluate the existing physical condition, fire and health safety issues, make recommendations and estimate the costs for corrective measures. Using a standardized list of building/structure elements ranging from site work to mechanical systems, the program should rank the historic significance of each element, identify the quantity of material, determine its condition and estimate the cost of repair. Needed repairs should be ranked according to the level of urgency.
2. The program should be capable to produce reports per building/structure as well as summaries of deficiency priorities and cost of need repair information.
3. Although based on a standardized inventory of elements the program should be flexible enough to be adapted to a variety of building and structure types, sizes, styles and construction materials.
4. Provide field testing and design refinement of the methodology to fine tune the program if necessary.
5. Provide the final CADEnCE condition assessment methodology in an electronic format, computer based software program compatible with existing Microsoft based computers. In addition to the computer program, a user manual/software user guide should be updated and made available electronically.

Outcomes with Completion Dates: May 1, 2011 A revised CADEnCE condition assessment computer based software program based on MS Access and supporting materials (users manual) as described above on CD.

Keywords: CADEnCE, National Historic Landmark properties, Force Space Command (AFSPC), National
         Park Service, Colorado State University