

Secure Rural Schools and Community Self-Determination Act of 2000  
Public Law 106-393

Title II Project Application for 2007 Funds (Round #7)  
Roseburg District Resource Advisory Committee

<b>1. Project Name:</b> Automated Smoke Detection System	<b>2. County:</b> Douglas
<b>3. Sponsoring Organization:</b> Douglas Forest Protective Assn.	<b>4. Date:</b> 08/13/08
<b>5. Sponsor's Phone Number:</b> (541) 672-6507	
<b>6. Sponsor's E-mail:</b> sjackson@odf.state.or.us	

<b>7. Project Location</b> (attach project area map)	
a. Description of Location: Project sites will be located at the Baughman, Silver Butte, and Dutchman lookout tower locations. (See attached map for more details)	
b. Sub Basin Name (4 <sup>th</sup> Field Watershed; e.g. North Umpqua):	
c. Watershed Name (5 <sup>th</sup> Field Watershed; e.g. Little River):	
d. Legal Location: Township <b>31s</b> Range <b>06w</b> Section(s) <b>23</b> Township <b>31s</b> Range <b>08w</b> Section(s) <b>21</b> Township <b>26s</b> Range <b>08w</b> Section(s) <b>31</b>	
e. BLM District: <b>Roseburg</b>	e. BLM Resource Area
f. State / Private / Other lands involved? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

<b>8. Project Goals and Objectives:</b> (Describe the goals and objectives of the project. If applicable list species that will benefit from the project) This project would add three additional automated smoke detection cameras to the existing network of eight. The three additional sites would complete the detection grid on the west side of the District, which would enhance the existing sites abilities to cross azimuths and see into blind spots.
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<b>9. Project Description:</b> (Describe how the project will be conducted and how its goals and objectives will be met.) The integrated camera system is intended to replace the need for the existing manned lookouts that are part of the current detection network. To replace a current manned lookout tower the costs range from \$150,000 for a wooden structure to \$350,000 for a metal structure. The automated detection cameras cost approximately \$35,000 to install where existing infrastructure is available and approximately \$75,000 where the infrastructure needs to be developed. At the Baughman and Dutchman sites existing structures would be utilized for installation of equipment, while the site at Silver Butte will require a camera tower to be constructed. All three sites will be solar powered and transmit data and pictures via microwave antennas. Upon installation of the equipment it will enable the control center, located at the DFPA Headquarters, to get an accurate location of a smoke and pass it on to the appropriate suppression agencies.
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**10. How will cooperative relationships among people that use federal lands be improved?**

This project will be completed with the cooperation of DFPA, BLM, Douglas County, and private landowners. The entire populace of Douglas County would benefit from improving the fire detection system in the area because of reduced resource damage from wildfires and forest users being able to enjoy the federal lands in their current pristine condition.

**11. How is this project in the best public interest and how will it benefit communities?**

Improving the capabilities of the current lookout system, by adding an automated smoke detection system, will provide a rapid awareness of fire starts that are not only located on BLM lands protected by DFPA but on city FD's, rural FD's, and USFS protected lands as well. Rapid detection of fire starts would benefit public safety and firefighter safety significantly by insuring timely initial attack, reducing resource and property damage, as well as minimizing exposure hours on the fireline.

**12. Who will accomplish the project?**

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Contractor   | <input type="checkbox"/> Federal Workforce |
| <input type="checkbox"/> County Workforce  | <input type="checkbox"/> Volunteers        |
| <input checked="" type="checkbox"/> Other (specify): DFPA and Oregon Dept. of Forestry personel. |  |

**13. Is this project coordinated with other related project(s) on adjacent lands?**

a.  Yes  No (If yes, then describe) This project is intended to be part of an integrated system of automated smoke detection cameras placed throughout Douglas County (see attached map). This system is intended to report smokes throughout the DFPA protected lands and surrounding areas providing overlapping coverage. With these additional sites, the cameras will be able to cross azimuth lines to pinpoint a smokes location to approximately 30 feet.

b. Are you seeking funds from other Resource Advisory Committees?  Yes  No (If yes, then describe) A Title II application has been submitted to the Rogue - Umpqua RAC for a similar project on Red Butte which would complete the detection grid on the east side of the Douglas District.

**14. If the project is on private land how does it benefit federal lands or resources?**

BLM, Bureau of Indian Affairs, and FAA land in Douglas County are protected by DFPA. DFPA also has mutual response agreements for fire on USFS lands bordering DFPA protected lands. An automated smoke detection system, with improved coverage, will provide a more coordinated response to fires that may be on or adjacent to federal lands. With this improved coverage and coordinated response, resource damage by uncontrolled wildfires will be reduced and land

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managers will be able to introduce fire into desired areas in a controlled and less destructive situation.

<b>15. Measure of Project Accomplishments</b>	
a. Total Acres: 1.5 million acres	b. Total Miles: N/A
c. Number of Structures: 1	d. Estimated Number of People Reached
e. Number of Laborer Days: 21	(for environmental education and workforce training projects): N/A
f. Other (specify): Improved detection times, provide smoke detection ability for extended hours, and allow fire managers to see and evaluate the smoke column and values at risk.	
g. Describe how long will the benefits of the project last: The life expectancy of the system is estimated at 10 to 15 years.	

<b>16. Will the project generate merchantable materials?</b>
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No      If yes, describe:

<b>17. How does the proposed project meet purposes of the legislation?</b> (Check at least one)
<input checked="" type="checkbox"/> Improves maintenance of existing infrastructure.
<input type="checkbox"/> Implements stewardship objectives that enhance forest ecosystems.
<input type="checkbox"/> Restores and improves land health.
<input type="checkbox"/> Restores water quality.

<b>18. Project Type</b> (Check at least one)	
<input type="checkbox"/> Road Maintenance	<input type="checkbox"/> Trail Maintenance
<input type="checkbox"/> Road Decommission/Obliteration	<input type="checkbox"/> Trail Obliteration
<input checked="" type="checkbox"/> Other Infrastructure Maintenance (specify): Electronic system for enhanced wildfire detection.	
<input type="checkbox"/> Soil Productivity Improvement	<input type="checkbox"/> Forest Health Improvement
<input type="checkbox"/> Watershed Restoration & Maintenance	<input type="checkbox"/> Wildlife Habitat Restoration
<input type="checkbox"/> Fish Habitat Restoration	<input type="checkbox"/> Control of Noxious Weeds
<input type="checkbox"/> Reestablish Native Species	
<input type="checkbox"/> Other Project Type (specify):	

<b>19. Project Initiation and Estimated Completion Dates:</b> (Describe the timing of the major phases of the project)
The estimated time to obtain equipment and establish the sites is 4 months. Equipment and materials will be purchased as soon as funds become available. The estimated completion date for this project is 12-31-08.

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<b>20. Status of Project Planning</b>			
a. NEPA process complete:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
b. Consultation complete:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	<input type="checkbox"/> Not Applicable
c. DSL/ODFW* permits for in-stream work obtained:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable
d. DSL/COE* 404 fill/removal permit obtained:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable
e. SHPO* concurrence received:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> Not Applicable
f. Project design(s) completed:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> Not Applicable
g. If you answered yes to any of the questions above, please describe who will accomplish the work and when it will be complete: <b>The NEPA for the Silver Butte site will be accomplished by the Roseburg BLM office. If The Roseburg BLM office is unable to take on the additional workload a private contractor will do the work.</b>			
* DSL = Dept. of State Lands, ODFW = Oregon Department of Fish and Wildlife, COE = Army Corps of Engineers, SHPO = State Historic Preservation Officer			

<b>21. Anticipated Project Costs</b>
a. Total Title II funds requested: <b>183,200</b>

**Table 1. Project Cost Analysis** (Includes all expenditures for the life of the project)

Item	Fed. Agency Appropriated Contribution	Requested County Title II Contribution	Other Contributions	Total Available Funds
Planning and Permits		1,200		1,200
Design & Engineering				
Project/Contract Administration				
Project/Contract Implementation <sup>1</sup>			25,000	25,000
Materials & Supplies <sup>2</sup>		170,000		165,000
Post-Project Monitoring			29,000	29,000
Other (NEPA)		12,000		12,000
<b>Total Cost Estimate</b>		<b>183,200</b>	<b>54,000</b>	<b>237,200</b>

<sup>1</sup>This could be either the cost of the labor for project implementation or the cost of a contract.

<sup>2</sup>If the project is implemented by contract, materials and supplies are likely included in the cost of the contract.

<b>22. Provide a budget narrative, including a description of other source(s) of funding for the project identified above and/or a clarification of any other aspects of the budget:</b>
Of the \$183,200 requested approximately \$13,200 will be spent on a NEPA and permits from the County Building Department. The remaining \$170,000 will be spent on system components, fencing, one 80 foot tower, and contracted labor for installation of the tower and fencing. The \$54,000 of other contributions will consist of labor provided by DFPA for installation of system components, monitoring, and maintenance of the system.

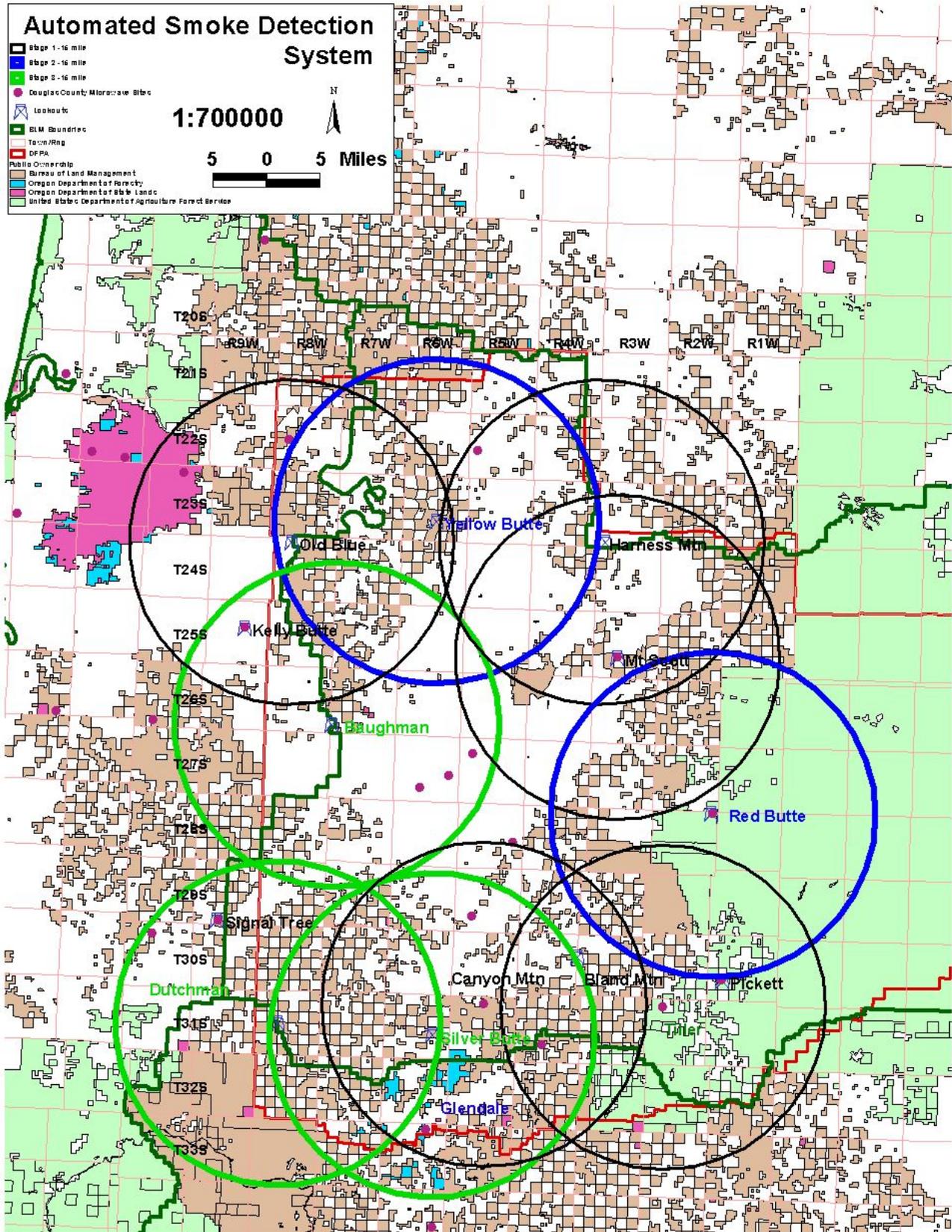
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<b>23. Monitoring Plan</b>
<p>a. What measures or evaluations will be made to determine how well the proposed project meets the desired ecological conditions? Who will be responsible for this monitoring item? N/A</p>
<p>b. How will the project be evaluated to determine how well it contributes to local employment and/or training opportunities, including summer youth jobs programs such as the Youth Conservation Corps? Who will be responsible for this monitoring item? This project will provide employment and training opportunities for site preparation and construction for contracted labor and five seasonal personnel for an estimated 21 days. This system will reduce the size of fires therefore minimizing the resource damage providing for employment for future timber harvesting.</p>
<p>c. What methods will be established to determine how well the proposed project improves the use of, or added value to, any products removed from federal lands consistent with the purposes of this Act? Who will be responsible for this monitoring item? Douglas Forest Protective Association will appoint a contract administrator to oversee and monitor the project through completion. We will compare 1<sup>st</sup> reports to historical numbers and compare the size of the fire at reporting.</p>
<b>24. What are the analyses, plans, legislation, or other supporting documents that support and guide this application?</b> (E.g. the Northwest Forest Plan, a watershed analysis, a late successional reserve assessment, or the Oregon Plan for Salmon.)
<p>The Fire Prevention, Detection, and Initial Attack, Western Oregon Contract with the BLM (Section C.5.2). This system would augment and improve the Districts required fire detection plan.</p>
<b>25. Who are the key people responsible for this project?</b> (List their names and titles)
<p>Melvin Thornton (District Manager), Scott Jackson (Assistant Unit Forester), George Day (Information Technology Specialist)</p>
<b>26. Attach a map and photograph(s) of the project.</b> (At a minimum, the map should show the project location, roads, and streams, and private versus BLM ownership. The photograph should show the project site or a representative portion of it. More than one photograph can be submitted, but they must all fit on one page. A digital photograph incorporated into this application is preferred; hard copies will be copied in black and white.)

Black circles signify existing sites, blue circles signify sites that are funded but not yet installed, and the green circles are sites proposed under this application.

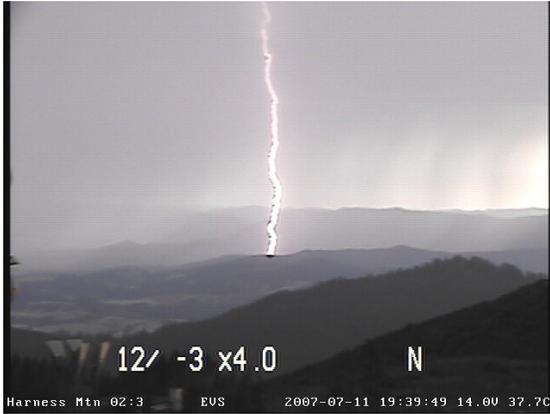
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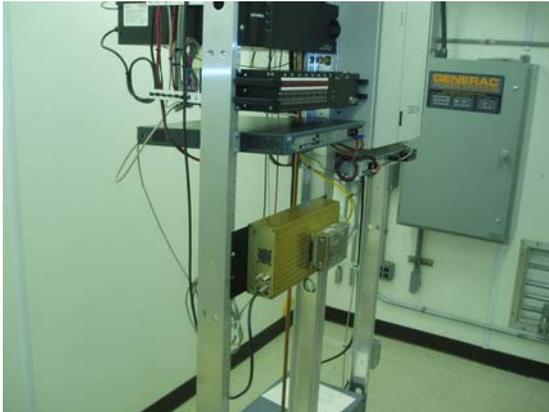
Lightning strike captured by Harness camera



Dave monitoring cameras from control center



ISE and router at County microwave site



Installation at Old Blue site



Mounting bracket (Tiller)



Non penetrating roof mount (Mt. Scott) Old Blue tower and camera

