

May 28-30, 2008

ITEM 139-1601-R0508 **Life Safety Improvements PE Complex; The University of Montana Western**

THAT: Consistent with the provisions of MCA 18-2-102, the Board of Regents of the Montana University System authorizes The University of Montana Western to implement steps necessary to address life safety issues in the PE Complex facility. The cost for this work will not exceed \$400,000. Auxiliary funds and an intercap loan will fund this project.

EXPLANATION: This project will address the following two life safety issues in the PE Complex facility at UM Western:

Ventilation:

Currently the PE Complex building does not meet code with air ventilation issues. This project will address the ventilation issues and upgrade the existing controls with direct digital controls for the HVAC System at the PE Complex building at UM Western.

The plan calls for upgrading 13 H&V units with new valves, sensors, actuators, and digital controls to provide proper operation including shutting off outside air during unoccupied periods of operation. Variable frequency drives will be evaluated and added to H&V Units with 5 hp motors and larger which have high run times. Upgrade 10 relief dampers with new actuators and digital controls. Upgrade unit heaters serving the racquetball courts with new actuators and digital controls. Digital control of the 5 exhaust fans will be completed and the fans will be shut down when the building is unoccupied. CO2 Sensors will be installed in each of the gyms and other high use areas of the building to control outside air to meet ventilation requirements.

Electrical:

The UM Western PE Complex has been troubled with limited electrical distribution throughout the building for the past several years. The original design included little to no spare capacity in the electrical system. The electrical switchgear, now 40 years old, has reached the end of its useful life.

Recently the main switch board – motor control center combination unit has had multiple failures in the control wiring. The most recent occurrence resulted in a small fire inside the motor control system. The condition of the electrical gear has now become a hazard to the building. It is reasonably likely that a catastrophic failure of the electrical system could result in the building becoming unusable until the main switchboard and motor control center could be replaced. Lead times for this equipment can approach 12 weeks.

The existing electrical service has very little spare capacity to accommodate additional loads. The University is currently shedding electricity and is not able to increase electrical loads to meet modern technology required in the building.

This authority request is for an amount greater than \$150,000, which requires the following additional information:

(a) Project Description:

The work performed under this authority encompasses the remedial work necessary to correct several life safety issues in the PE Complex facility at the Dillon campus.

(b) Cost Estimate and Funding Sources:

Construction	\$300,000
Architectural Fees and Project Administration	60,000
Contingency	40,000

PROJECT TOTAL	\$400,000
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This project will be financed with Auxiliary funds and an intercap loan.

(c) Programs Served, Enrollment Data, Projected Enrollments:

(Not applicable to this request)

(d) Space Utilization Data:

(Not applicable to this request)

(e) Projected Use for Available Residual Space:

(Not applicable to this request)

(f) Projected O&M Costs and Proposed Funding Sources:

(Not applicable to this request)