



DATE: July 20, 2010

TO: FIMS User Community

FROM: Gary Horn
Office of Engineering and Construction Management

SUBJECT: Facilities Information Management System (FIMS) Version 1.34 Release

Today, Tuesday, July 20, 2010, version 1.34 of the Facilities Information Management System (FIMS) was released. This release addresses the following enhancement which will automatically be available to you when you log into FIMS from your browser.

- In response to the Secretary of Energy's memorandum, Installation of Cool Roofs on Department of Energy Buildings, dated June 1, 2010, a Cool Roof window with appropriate data fields has been added to FIMS to track the Department's performance. This enhancement addresses the request on FIMS Change Request 10-16 which is available on the FIMS website at http://fimsinfo.doe.gov/change_requests.htm.
 - The Cool Roof window is accessible for all DOE owned, DOE leased and Contractor Leased buildings and trailers.
 - The data on the Cool Roof window is to be populated by November 12, 2010.
 - The following new data fields reside on the Cool Roof window:
 - Total Roof Projected Area (GSF) - projected area is the two-dimensional area measurement of a three-dimensional object by projecting its shape on to an arbitrary plane. For reporting purposes, the total roof projected area is generally the same as the building footprint.
 - Vegetative Area (GSF) - a building roof covered with vegetation and a growing medium, planted over a waterproofing membrane, absorbing rainwater, providing insulation, creating a habitat for wildlife, and helping to lower urban air temperatures and combat heat island effect. Additionally, cool roofs must provide a thermal resistance of at least R-30.
 - Reflective Area (GSF) - a building roof that strongly reflects sunlight and so is minimally heated by the sun. Low sloped roofs (pitch 2:12 or less) must have a minimum 3-year aged solar reflectance of 0.55 and a minimum 3-year aged thermal emittance of 0.75 in accordance with the Cool Roof Rating Council program, or a minimum 3-year aged solar reflectance index (SRI) of 64 in accordance with ASTM Standard E1980-01. Steep sloped roofs (pitch greater than 2:12) must have a 3-year aged SRI of 29 or higher. Additionally, cool roofs must provide a thermal resistance of at least R-30.
 - Photovoltaic Area (GSF) - a building roof covered with photovoltaic materials used as a principle or ancillary source of electric power. Additionally, cool roofs must provide a thermal resistance of at least R-30.

- Total Cool Roof Area (GSF) - This is a system generated data element that contains the sum of the Vegetative Area (GSF), Reflective Area (GSF), and Photovoltaic Area (GSF).
 - Planned Complete Cool Roof Date – the fiscal year that the Total Roof Projected Area will be comprised of cool roof technology. If a phased roof replacement is planned, report the completion data of the final phase. This data element is required only for work planned for the current fiscal year and three outyears.
 - Cool Roof Not Economically Feasible – a life cycle cost analysis has been performed and installation of a cool roof has been determined to be uneconomical.
- Updates to the FIMS User's Guide, Data Element Dictionary and FIMS Reporting Guide will be provided next week. All of the new data elements found in the Data Element Dictionary are prefixed with "Cool Roof". For example, "Cool Roof - Reflective Area".

If you have any questions related to these enhancements, please contact the FIMS Hotline at 301-903-0850. You can also email Mark Gordy (mark.gordy@hq.doe.gov), Gayle Smith (gayle.smith@hq.doe.gov), or Mike Kohut (Michael.kohut@hq.doe.gov).