



**Portsmouth Naval Shipyard
Public Works Department - Maine**

MEMORANDUM

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Subj: Navy Requirements for Low Impact Development
Date: July 27, 2010
Revised July 7, 2011

A/E firms are required to document compliance with LID for all applicable projects. This documentation must include stormwater calculations to demonstrate compliance or non-compliance. The stormwater calculations are different than both the LEED and Maine Department of Environmental Protection (MEDEP) requirements. NAVFAC MIDLANT has clarified this and acknowledges that projects will have to submit three sets of calculations to address all applicable requirements (LID, LEED, and MEDEP permit).

LID is required to be implemented for all FY11 projects meeting the trigger points. It applies to projects which alter the pre-development hydrology of a site. This usually equates to an increase in impervious area within the project site. For example, most of our CIA projects are exempt because we are not altering the pre-development hydrology simply because 100% impervious exists and will remain post-construction.

Two trigger points apply - one under LID and the other under EISA:

Navy LID >\$5 million for major renovation and >\$750,000 for new construction

EISA >5,000 square feet footprint of project site disturbance (not just the building)

Both trigger points require the same stormwater calculations and documentation which is described in UFC 3-210-10N LOW IMPACT DEVELOPMENT (one stop shopping for both requirements). The latest version of this UFC can be downloaded from the Whole Building Design guide website at <http://www.wbdg.org> under the Documents and References/Construction Criteria Base tab. Additional technical guidance is also available at this tab location under EPA Criteria titled "Technical Guidance on Implementing the Stormwater Runoff Requirements for Federal Projects and Section 438 of the Energy Independence and Security Act" EPA 841-B-09-001. A/E firms should review both the UFC and the guidance document to meet LID requirements for Navy projects.

LID evaluation requires analysis based on the 95th percentile storm event determined for the project area. For Portsmouth Naval Shipyard the 95th percentile storm event is 1.55 inches 24 hour rainfall event.