

SECTION 4-13: FACILITIES LEAK DETECTION

4-13-00	Policy
10	Procedures
20	Guidance and Information
30	(Reserved)

4-13-00 POLICY

The implementation of leak detection programs will help HHS meet the water conservation goals established by Executive Orders 13423 and 13514. These orders require federal agencies to reduce water consumption intensity by 2% annually to achieve a 16% total reduction by the end of FY 2015 and a 26% total reduction by the end of FY2020. Consumption shall be based upon a FY 2007 benchmark. In addition to supporting water consumption reduction, a successful leak detection program provides the following benefits:

- Improved operational efficiency
- Reduced water system operational costs
- Reduced potential for contamination
- Extended life of facilities
- Reduced potential property damage and water system liability
- Reduced water outage events
- Increased knowledge of the distribution system, which can be used to respond more quickly to emergencies and to develop plans for replacement or rehabilitation programs
- More efficient use of existing supplies
- Increased firefighting capability

4-13-10 PROCEDURES

OPDIVs with water distribution systems shall implement leak detection and repair programs with a goal of achieving a 5 percent or less “unaccounted for” water loss in their systems within 3 years. The program should include an initial assessment, estimation of unaccounted-for-water, system survey with in-field leak detection, leak repair, and record maintenance.

OPDIVS should draw from their own technical expertise, knowledge of each facility water distribution system, guidance documents and the multitude of sources available to develop their program. If possible, ultrasonic meters and data loggers shall be used to verify the accuracy of incoming water meters.

4-13-20 GUIDANCE AND INFORMATION

Leak detection Guidance can be found at the following websites:

http://www1.eere.energy.gov/femp/program/waterefficiency_bmp.html

http://www1.eere.energy.gov/femp/pdfs/om_water.pdf

http://www1.gadnr.org/cws/Documents/Leak_Detection_and_Repair.pdf

AWWA Manual M36, Water Audits and Leak Detection: <http://www.awwa.org>