Optional Water Efficiency Measure: May contribute to the 30 percent water efficiency requirement, depending on the chosen WaterSense® Approved Certification Method (WACM).

UNDERSTAND

- Leaks can be associated with toilet flappers, dripping faucets, irrigation lines, or many other sources.
- Leak detection and flow monitoring systems are devices used to identify potential leaks in water systems. If a leak is detected, these devices sound an alarm or send a notification to the homeowner, helping to limit water waste and potential water damage.
- Some insurance companies may provide premium discounts or credits for leak detection or flow monitoring systems, particularly those connected to automatic shutoff devices.
- These devices use a variety of technologies, have unique installation requirements, and offer different features and benefits. It’s important to consider priorities for a particular house/project in selecting the appropriate leak detection device(s). See Potential Features of Leak Detection and Flow Monitoring Devices on the next page.

BUILD

- UNDERSTAND product limitations from the manufacturer. Some products do not work under certain conditions (e.g., under higher water pressure) or with certain models of meters.
- SELECT a device capable of monitoring for all water use in the home. For example, if a home has an irrigation system, select a device that can monitor for indoor and outdoor water use or leaks.
- FOLLOW the manufacturer’s installation instructions. If installing an in-line device, ensure the plumbing design has enough pipe length to accommodate the device and that the leak detection system is installed in an area that is easily accessible.
- ENSURE the device is installed such that it will not interfere with fire sprinkler systems.
- COMMUNICATE sign-up or subscription requirements, if applicable, to the homeowner upon turnover of the home.

VERIFY

- CONFIRM the location and installation of leak detection devices.

*NOTE: Consult with the Home Certification Organization for specific verification protocols.
### Potential Features of Leak Detection and Flow Monitoring Devices

| Monitoring Technology                                                                 | • Moisture-sensing devices use electrodes to detect water as it appears in a designated area and sound an alarm or activate a shut-off valve to notify homeowners when water is in a location that is not intended, such as on the floor near a water-using appliance or fixture.  
|                                                                                     | • Flow monitoring devices record water flow or water pressure in pipes to detect irregularities. If irregular water use or pressure changes are detected, the device notifies the homeowner and/or activates an associated shut-off valve to prevent water waste or damage.  

| Installation Requirements                                                          | • In-line devices, which typically come with shutoff capabilities, are more invasive and likely require a plumber to install within water piping.  
|                                                                                     | • Moisture-detection or external flow monitoring devices are less complicated to install.  
|                                                                                     | • Some systems integrate multiple technologies (e.g., separate devices for moisture detection and flow monitoring) in a mesh network to offer enhanced protection.  

| Area and Uses Being Monitored                                                      | • Some moisture detection and flow monitoring devices are focused on a specific point of use, such as a toilet or water heater, while others are installed at the point of entry to a home or unit to monitor whole-house water consumption.  
|                                                                                     | • Some devices are specifically intended for indoor or outdoor water use, while others can monitor water use in both areas.  

| Intervention Abilities                                                             | • Some devices offer integrated shutoff capabilities or otherwise activate a water shutoff valve.  
|                                                                                     | • Devices without shutoff abilities typically sound an alarm or send a notification.  