

**JOINT BASE LEWIS MCCHORD  
PERMIT REQUIRED MANAGEMENT PRACTICES  
WASTEWATER PRETREATMENT**

This permit required management practice (PRMP) is being issued instead of an individual permit. PRMPs are mandatory under the Clean Water Act (CWA) and promote compliance with the NPDES permit requirements for stormwater and pretreatment programs. The intent is to provide efficient and effective procedures that protect personnel, plant operations, groundwater, surface water, marine waters and prevent wastewater treatment plant pass through. When these PRMPs are followed properly, they are an effective means of source control which prevents potential pass through or 'slugs' of untreated pollutants from entering the sanitary sewer system or illicit discharges to the stormwater system.

**BOILERS**

Steam produced by boilers is typically circulated to users in a closed-loop system where condensate is recycled back to the boiler. Due to evaporation or inability to recycle condensate at some points of use, however, the amount of condensate is generally less than the amount of steam produced. As a result, water must be added to the boiler to make-up for the condensate losses. Dissolved salts in the make-up water will accumulate in the boiler over time because the steam that leaves the system contains no dissolved salts. Because dissolved salts can cause corrosion or scaling of the steam/condensate pipe system, the salt concentration is controlled by periodically discharging (or "blowing down") some of the boiler water. In addition to periodic blow down, chemicals are often added to the boiler water to help control scaling and corrosion.

**Things to do to Minimize Waste Discharge from Boilers:**

1. Use contract services specializing in boiler water maintenance and control to determine chemical requirements.
2. Periodically analyze boiler water to determine blow down and chemical additive requirements.
3. Control chemical additive use using metering pumps.
4. Only use approved chemical additives.
5. Locate chemical metering systems within secondary containment areas to prevent spills or leaks from entering the sewer.
6. For specific instructions, refer to the Operational Manuals for each of the boilers or contact the Public Works Boiler Shop Supervisor at (253) 982-2005.

**Things not to do:**

1. Do not overuse chemical additives; use only as much as needed.
2. Do not dispose of waste chemicals into the sewer. Do not rinse out waste chemical containers into the sewer. Always dispose of waste chemicals and containers in the approved manner.

For additional pretreatment information, contact the Public Works Pretreatment Program at [usarmy.jblm.imcom-central.list.dpw-pretreatment@mail.mil](mailto:usarmy.jblm.imcom-central.list.dpw-pretreatment@mail.mil).

**NOTE:** All PRMPs are in the process of significant format and content update to meet multiple NPDES permit discharge requirements, JBLM 200-2 and JBLM 200-3.