

**TABLE 4.3.2.2–1.—Estimated Annual Utility Consumption by New Facilities<sup>1</sup>**

PROJECT	EMPLOY- MENT	DOM. WATER 1,000 L/yr (1,000 gal/yr)	IND. WATER 1,000 L/yr (1,000 gal/ yr)	DOM. WASTE- WATER 1,000 L/yr (1,000 gal/ yr)	IND. WASTE- WATER 1,000 L/yr (1,000 gal/ yr)	ELEC- TRICITY MWH/yr	STEAM (HEAT) Mkg/yr (Mlb/yr)	BOILER- HOUSE WATER 1,000 L/yr (gal/yr)	BOILER- HOUSE NATURAL GAS Mm <sup>3</sup> /yr (Mft <sup>3</sup> /yr)
<b>HAZARDOUS WASTE TREATMENT AND PROCESSING FACILITY</b>									
Proposed	20	912 (241)	3,400 (900)	912 (241)	2890 (765)	598	4.5 (9.9)	564 (149)	0.3 (9.5)
Current	15	685 (181)	0 (0)	685 (181)	0 (0)	411	3.4 (7.4)	451 (119)	0.2 (7.1)
<b>PIT REUSE FACILITY</b>									
Proposed	7	320 (84)	0 (0)	320 (84)	0 (0)	192	0 (0)	0 (0)	0 (0)
Current	0	0 (0)	0 (0)	0 (0)	0 (0)	0	0 (0)	0 (0)	0 (0)
<b>GAS ANALYSIS LABORATORY</b>									
Proposed	20	912 (241)	0 (0)	912 (241)	0 (0)	548	4.5 (9.9)	564 (149)	0.3 (9.5)
Current	20	912 (241)	0 (0)	912 (241)	0 (0)	548	4.5 (9.9)	564 (149)	0.3 (9.5)
<b>NONDESTRUCTIVE EVALUATION FACILITY</b>									
Proposed	42	1,920 (507)	7,200 (1,900)	1,920 (507)	6,100 (1,600)	1,150	2.9 (6.5)	451 (119)	0.2 (6.2)
Current	42	1,920 (507)	7,200 (1,900)	1,920 (507)	6,100 (1,600)	1,150	2.9 (6.5)	451 (119)	0.2 (6.2)
<b>METROLOGY AND HEALTH PHYSICS CALIBRATION AND ACCEPTANCE FACILITY</b>									
Proposed	48	2,200 (579)	8,300 (2,200)	2,200 (579)	7,100 (1,870)	1,315	4.4 (9.6)	564 (149)	0.3 (9.2)
Current	48	2,200 (579)	8,300 (2,200)	2,200 (579)	7,100 (1,870)	1,315	4.4 (9.6)	564 (149)	0.3 (9.2)
<b>MATERIALS COMPATIBILITY ASSURANCE FACILITY</b>									
Proposed	40	1,830 (483)	6,800 (1,800)	1,830 (483)	5,780 (1,530)	1,096	4.4 (9.6)	564 (149)	0.3 (9.2)
Current	40	1,830 (483)	6,800 (1,800)	1,830 (483)	5,780 (1,530)	1,096	4.4 (9.6)	564 (149)	0.3 (9.2)

<sup>1</sup>These facilities are not anticipated to utilize natural gas.

M = Million

Assumptions:

- Number of employees are based on Conceptual Design Report (CDR) information.
- Domestic water use is based on current use per employee.
- Industrial water use is based on current use per employee for the HWTPF, Nondestructive Evaluation Facility, Materials Compatibility Assurance Facility, and Metrology and Health Physics Calibration and Acceptance Facility. No water is expected to be used by Pit Packaging, Pit Reuse, and Gas Analysis Lab.
- Domestic wastewater generated is assumed to equal domestic water use.
- Industrial wastewater generated is assumed to equal 85 percent industrial water use.
- Electricity use is based on current use per employee.
- Natural gas for heating is taken from CDRs.
- Steam requirements are taken from CDRs.
- 0.125 gallon of water is needed to produce one pound of steam.
- 0.96 ft<sup>3</sup> of natural gas is needed to produce one pound of steam.

Source: PC 1995g