

# DOUBLE-CONTAINED WASTE PIPING: MAINTENANCE OPERATING PROCEDURE

## APPLICATION

This procedure specifies safe work conditions for the maintenance and repair of double-contained waste piping, in order to avoid possible contact with, or release of, hazardous waste. It applies to the double-contained waste piping connected to the waste disposal systems of Buildings 002, 70A, and 77A.

## INTRODUCTION

These pipes contain hazardous wastes that, if released into the environment, can cause environmental damage as well as serious injuries through bodily contact or inhalation of fumes. When it becomes necessary to open these pipes, it is imperative that the work be approved and monitored by appropriate EH&S personnel and performed **only** under the conditions specified in this procedure.

## CONTACTS

EH&S Waste Management Group, Building Managers, and system users.

## SPECIAL EQUIPMENT

Rubber gloves, safety glasses, full face shield, and an acid-resistant plastic bucket or pan.

## WORK STEPS

### ESTABLISH SAFE CONDITIONS: PLANT MAINTENANCE TECHNICIANS (PMT)

1. Schedule the work with system users, the Building Manager, and an EH&S Waste Management representative. The Building Manager can supply a complete list of system users.
  - **SPECIAL INSTRUCTIONS:** If work must be done immediately, notify the Building Manager and an EH&S Waste Management representative of shutdown time and estimated duration of work.
  - Arrange for a qualified EH&S representative to be present during work to advise and approve as necessary (Steps 3, 6 and 9).
2. Flush and neutralize the system per EH&S instruction.
3. Secure all flow through the system using standard Lockout/Tagout and sign posting procedures.
  - **SPECIAL INSTRUCTION:** Refer to *OPER-045 Lockout/Tagout* and *OPER-043 Barricades* if necessary.

### PPE: PLUMBERS

4. Wear PPE: rubber gloves, safety glasses **and** full face shield, rubber boots.
5. Use an acid-resistant plastic bucket or pan to collect any liquids present when the system is opened.
  - The Trace-Tek leak detection system cables located at buildings 002 and 77A must be handled with rubber gloves at **all** times, including during removal and drying operations.
  - **SPECIAL INSTRUCTIONS:** Exercise caution: The cable may be coated with acid waste or residue.

### PERFORM WORK: PLUMBERS

6. If fluids are present, contain and dispose of them as instructed by EH&S personnel.
7. If repairs to the system involve replacement of material, discarded material must be neutralized, rinsed clean, and disposed of according to instructions by EH&S personnel.

**REASSEMBLE AND TEST SYSTEM: PLUMBERS**

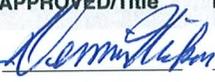
8. Ensure that alignment is correct, so that the leak detection system is functioning properly.
  - After the work is completed, test the repaired system according to manufacturer's recommendations. This typically includes:
    1. Capping the system and pressurizing;
    2. Testing the system for leaks;
    3. Removing the tests, and putting system back in service.
  - **SPECIAL INSTRUCTIONS:** Obtain recommendations from the Plumbing Supervisor.

**RESTORE TO NORMAL OPERATION: PLANT MAINTENANCE TECHNICIANS (PMT)**

9. After approval by EH&S personnel, restart the system, and notify system users and the Building Manager.

**RESPONSIBILITIES AND CONTROLS**

Provide signature lines as follows:

REV NO.	SME/Title	REV/Title	APPROVED/Title	DATE	EFFECTIVE DATE
1				5/29/09	6/1/09.
	William Mattson Facilities CSG Mechanical Services Supervisor	Michael Dong Facilities Utilities Manager	Dennis Nielsen Facilities Small Projects Department Head		