

# Juneau-Douglas Wastewater Treatment Plant

## CONFINED SPACE ENTRY PLAN

Revised May 13, 2002

**PURPOSE:** The purpose of this plan is to provide safe working conditions for our employees and expedite confined space entry by establishing standardized procedures and practices.

**POLICY:** Confined space entry will be eliminated by engineering or working from outside the space whenever possible. When this is not practical, the space should be rendered as safe as possible, and re-classified as non-permit required if it can be done. Permit-required entry should only be done as a last resort. Plant policy does not allow the entry of any confined space that is Immediately Dangerous to Life and Health except for personnel rescue, and then only by trained, certified Rescue Team members.

**PROCEDURES:** The Juneau-Douglas Plant has been surveyed by supervisory personnel and warning signs posted on all OSHA permit-required confined spaces. Entry into these spaces must be performed in full compliance with OSHA/CBJ written standards. Plant personnel should also be aware that other confined spaces could exist or be created, such as a partially empty 55-gallon fuel drum or a sludge dump truck bed and exercise appropriate caution.

This means that EVERY designated confined space entry at this plant must have a formal written permit filled out and signed by an authorized supervisor before it can be entered and any work performed. In addition, the supervisor must sign off on the permit before the job is considered complete. The permitting supervisor is responsible for the safety of the job.

Each confined space will have its own written Job Hazard Analysis (JHA) performed before the first entry is permitted into it. If a JHA has already been written, it must be reviewed by the permitting supervisor to make sure that no new job hazards have been introduced. A copy of the JHA for the space must be attached to a filled out confined space entry permit and becomes a part of it. When all the hazards listed on the JHA have been rendered harmless by approved procedures, an OSHA designated confined space may be re-classified by the supervisor as a non-permit required confined space. This should be clearly stated on the entry permit. All confined spaces should be re-classified if possible. A CBJ confined space permit and JHA are still required for every entry, and must be posted at the entrance to the space until the permit is closed by the supervisor. A re-classified confined space remains so only while no hazards exist. If a hazardous situation re-occurs or a new hazard is introduced, the space is to be vacated

immediately and the permitting supervisor notified so that the space entry procedure can be re-evaluated and corrective action taken before the space is entered again.

If all the hazards on the JHA for a confined space cannot be eliminated by OSHA approved procedures, then the space will remain a permit-required confined space and appropriate precautions such as the wearing of a harness and lifeline and the use of a trained attendant must be taken. In addition, Plant policy requires rescue equipment to be on site, and the crew to perform a practice rescue before the permitted work is undertaken. The practice rescue should be done by trained certified personnel, (Rescue Team) and recorded on the permit. All personnel entering any confined space or serving as an attendant will be briefed by the permitting supervisor regarding expected hazards, safety precautions, job duties and emergency procedures. All J-D personnel are required to have current First Aid and CPR training.

After completion of a confined space entry or at the end of a shift, the permitting supervisor will sign off the permit, officially closing it. Before another entry can take place, a new permit must be completed. The completed permit will be reviewed with the plant supervisor, and the JHA for the space revised if deemed necessary. The completed permit and its attached JHA, along with any associated paperwork, such as air test logs, will be kept on file in the confined space entry log located in the operators' office for at least one year.

**Unauthorized confined space entry or bypass of the permit system will not be tolerated, and disciplinary action will result.**

## **Juneau-Douglas Wastewater Treatment Plant Confined Spaces List**

Grit Chamber

Septage Pit

Clarifiers (2 each)

Waste Pump Dry Well

Return Sludge Wet Well

Scum Pit

Aeration Basins (2 each)

Digester

Piping System

UV Channel, Inlet & Outlet Structures

Pond Box

Incinerator Areas:

Reactor Vessel

Vernturi/Tray Scrubbers

Polymer Batch Tanks (2 each)

Hot Gas Duct

Used Oil Tank

Cake Sludge Hoppers (2 each)

Cake Storage Trough