

## DESK INSTRUCTION FOR VISUAL INSPECTIONS OF 211-T AND 2706-T SUMPS

Effective Date: 10/06/93

REVISION 0

### 1.0 PURPOSE

The purpose of this desk instruction is to define the actions taken by the T Plant Environmental Control Group (ECG) to complete periodic visual examination of the 211-T and 2706-T sumps. The inspections are necessary to verify the fitness of the sumps for continued use.

### 2.0 SCOPE

This desk instruction applies only to the ECG and addresses visual inspection of the T Plant 211-T and 2706-T sumps.

### 3.0 RESPONSIBILITIES

Environmental Control Group - The ECG has the primary responsibility for implementation of this desk instruction. The ECG responsibilities shall include coordination of the surveillance and maintenance of records resulting from the surveillance.

Engineering Group - The Engineering Group, where requested, will provide support to the ECG in conducting the inspection. In the event that repairs to the sump(s) are deemed necessary, the EG will take primary responsibility for completion of the repairs.

Operations Group - The Operations Group (OPS), as necessary, will provide support to the ECG in completing the inspection (e.g., sump access, liquid transfer). An OPS representative will accompany ECG during the inspection. An OPS representative trained in confined space entry shall supervise entry into the sumps.

### 4.0 DISCUSSION/BACKGROUND

The 211-T and 2706-T sumps are single-walled, below-grade, concrete sumps used to accumulate liquid and solid wastes from T Plant low-level decontamination activities.



Two large interconnected sumps, the automotive and rail sump, are located in the 2706-T low-level decontamination facility. The 211-T sump, located to the southeast of the 2706-T facility, is used to transfer liquid wastes from the 2706-T sump system to the 221-T tank system. Because the sumps have been used to manage Resource Conservation and Recovery Act listed wastes in the past, the liquids accumulated are designated as mixed waste.

## 5.0 TOOLS/EQUIPMENT

The following tools and equipment are necessary for completion of the sump inspection:

- 2706-T Sump Fitness-For-Use Evaluation - Visual Inspection Log
- 211-T Sump Fitness-For-Use Evaluation - Visual Inspection Log
- Portable light source

## 6.0 INSTRUCTIONS

The following sub-sections provide direction to the ECG for completion of 2706-T and 211-T sump inspections; however, due to the nature of the test, many of the steps must be completed by T Plant Operations personnel.

### 6.1 2706-T Sump Inspection:

The following steps should be followed for completion of the 2706-T sump visual inspection.

- Empty the sumps by transferring the contents into the 221-T tank system. In the event that debris obscures vision of the sump walls or floor, clean the interior surface of the sump to the extent practical to allow adequate inspection.
- Enter each sump and visually **INSPECT THE ENTIRE INTERIOR SURFACE** (including all the walls and floor). Particular attention shall be given to seams, joints, corners, or areas where general deterioration is noted. Document the results of the sump inspection on the appropriate form.

**NOTE:** An OPS representative trained in confined space entry must be supervise entry into the sump.

- The following items shall be noted during inspection of the sump:
  - The amount of liquid remaining in the sump at the time of inspection.
  - Any remaining debris that obscures vision of the sump walls or floor.
  - A statement of the overall condition of the sump.
  - Any visible cracks in the structure and an assessment as to the extent of depth of the cracks, if present.
  - Any areas where spalling, chipping, erosion, or signs of general deterioration is present.
- The T Plant ECG and T Plant Engineering shall specify the appropriate repair actions, if needed, to be completed prior to approval of operation. Document the actions, if necessary, taken to repair the system on page 2 of the inspection data sheet.
- Inspect any areas where repair has been completed to document adequacy of the repair action.
- The completed inspection log shall be reviewed and approved prior to operation of the sump to accumulate liquid wastes.
- Sign and date the inspection data sheet.

#### 6.2 211-T Sump Visual Inspection

The following steps should be followed for completion of the 211-T sump visual inspection:

- Empty the sump to the maximum extent practical by transferring the contents into the 221-T tank system. Manual bypass of the automatic pump actuator will be required to ensure all the possible liquids have been removed.
- Remove the sump cover to allow visual access.
- Because the 211-T sump is classified as a confined space, entry will only be required when repair is necessary or when cracks or deterioration are noted which require further evaluation. Using an adequate light supply, visually **INSPECT THE ENTIRE INTERIOR SURFACE** (including all the walls and floor). Particular attention shall be given to seams, joints, corners, or areas where general deterioration is noted. Document the results of the sump inspection on the appropriate form.

- The following items shall be noted during inspection of the sump:
  - The amount of liquid remaining in the sump at the time of inspection.
  - Any remaining debris that obscures vision of the sump walls or floor.
  - A statement of the overall condition of the sump.
  - Any visible cracks in the structure and an assessment as to the extent of depth of the cracks, if present.
  - Any areas where spalling, chipping, erosion, or signs of general deterioration is present.
- The T Plant ECG and T Plant Engineering shall specify the appropriate repair actions, if needed, to be completed prior to approval of operation. Document the actions, if necessary, taken to repair the system on page 2 of the inspection data sheet.
- Inspect any areas where repair has been completed to document adequacy of repair action.
- The completed inspection log shall be reviewed and approved prior to operation of the sump to accumulate liquid wastes.
- Sign and date the inspection log.

### 6.3 Schedule:

The 2706-T and 211-T sumps shall be inspected in accordance with this desk instruction at least 2 times per year while operating.

## 7.0 RECORDS/DOCUMENTATION

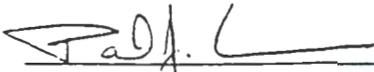
The following records shall be maintained by the ECG:

- Copies of completed inspection log sheets
- Records of actions taken to correct deficiencies noted during the inspections.

## 8.0 REFERENCES

None

9.0 APPROVAL



P. J. Crane, Manager, T Plant Environmental Control

Date: 10/6/94



W. Smith, Manager, T Plant Operations

Date: 10-6-93



R. J. Bottenus, Manager, T Plant Engineering

Date: 10/6/93

**2706-T SUMP FITNESS-FOR-USE EVALUATION - VISUAL INSPECTION** Pg 1 Of 2

Inspector Name:

Date of Inspection:

**CLEANLINESS OF SUMP AT TIME OF INSPECTION**

YES NO

Is sump free of liquid or sludge?

Is sump free of debris or waste on floor or walls?

If applicable, describe the amount and type of liquid, sludge, or debris remaining in sump:

Comments:

**CONDITION OF SUMP**

YES NO

Is sump free of visible cracks in walls or floor?

Is sump free of visible chipping, wear , or deterioration?

Is sump free of visible structural damage?

Describe the overall condition of the sump:

If applicable, identify the location and degree of cracks, deterioration, or structural damage:

Comments:

Inspector Signature:

Date:

# 2706-T FITNESS-FOR-USE EVALUATION-VISUAL INSPECTION

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Inspector Name:

Date of Inspection:

Repair Actions

YES

NO

Are any repair action necessary prior to operations?

Identify the repair actions necessary:

Comments:

Have repair items been completed satisfactory?

Identify the completion dates for corrective actions:

Comments:

ADDITIONAL COMMENTS/NOTES:

Inspector signature:

Date:

# 211-T SUMP FITNESS-FOR-USE EVALUATION - VISUAL INSPECTION

Inspector Name:

Date of Inspection:

## CLEANLINESS OF SUMP AT TIME OF INSPECTION

YES

NO

Is sump free of liquids or sludge?

Is sump free of debris or waste on floor or walls?

If applicable, describe the amount and type of liquid, sludge, or debris remaining in sump:

Comments:

## CONDITION OF SUMP

YES

NO

Is sump free of visible cracks in walls or floor?

Is sump free of visible chipping, wear, or deterioration?

Is sump free of visible structural damage?

Describe the overall condition of the sump:

If possible, identify the location and degree of cracks, deterioration, or structural damage:

Comments:

Inspector Signature:

Date:

# 211-T SUMP FITNESS-FOR-USE EVALUATION - VISUAL INSPECTION

Inspector Name:

Date of Inspection:

REPAIR ACTIONS

YES

NO

Are Repair actions necessary prior to operations?

Identify the repair actions necessary:

Comments:

Have repairs been completed satisfactory?

Identify the completion dates for corrective actions:

Comments:

ADDITIONAL COMMENTS/NOTES:

Inspector Signature:

Date: