



## CERTIFICATION COURSE

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# SCAQMD RULE 1176

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# COURSE OUTLINE

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**Goals and Objectives of this course**

**Definition of Terms**

**Waste Water Systems Equipment**

**Rule Requirements**

**Inspection Protocols**

**Sampling Method**

**Questions and Discussion**

**EXAM**

# COURSE GOALS & OBJECTIVES

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Review operations of Wastewater Systems and associated equipment

Increase understanding of Compliance Requirements for AQMD Rules

Limit emissions of Volatile Organic Compounds (VOC) from Wastewater Systems

Inspector Certification

**R1176(f)(2): all inspections and monitoring required under paragraph (f)(1) shall be done by a certified inspector.**

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# DEFINITIONS

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[HTTP://WWW.AQMD.GOV/HOME/REGULATIONS/RULES](http://www.aqmd.gov/home/regulations/rules)

# Volatile Organic Compound

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R102 : VOLATILE ORGANIC COMPOUND (VOC) is any volatile compound of carbon

**excluding:**

**methane,  
carbon monoxide,  
carbon dioxide,  
carbonic acid,**

**metallic carbides or carbonates  
ammonium carbonate  
and exempt compounds\*.**

\*exempt compounds defined in R102

## Wastewater (WW)

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R1176(c)(24): WASTEWATER is a water stream or other liquid waste stream generated in a manner which may contain petroleum liquid, emulsified oil, VOC, or other hydrocarbons.

# Wastewater (WW) System

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## **R1176(c)(26): Wastewater System consists of one or more:**

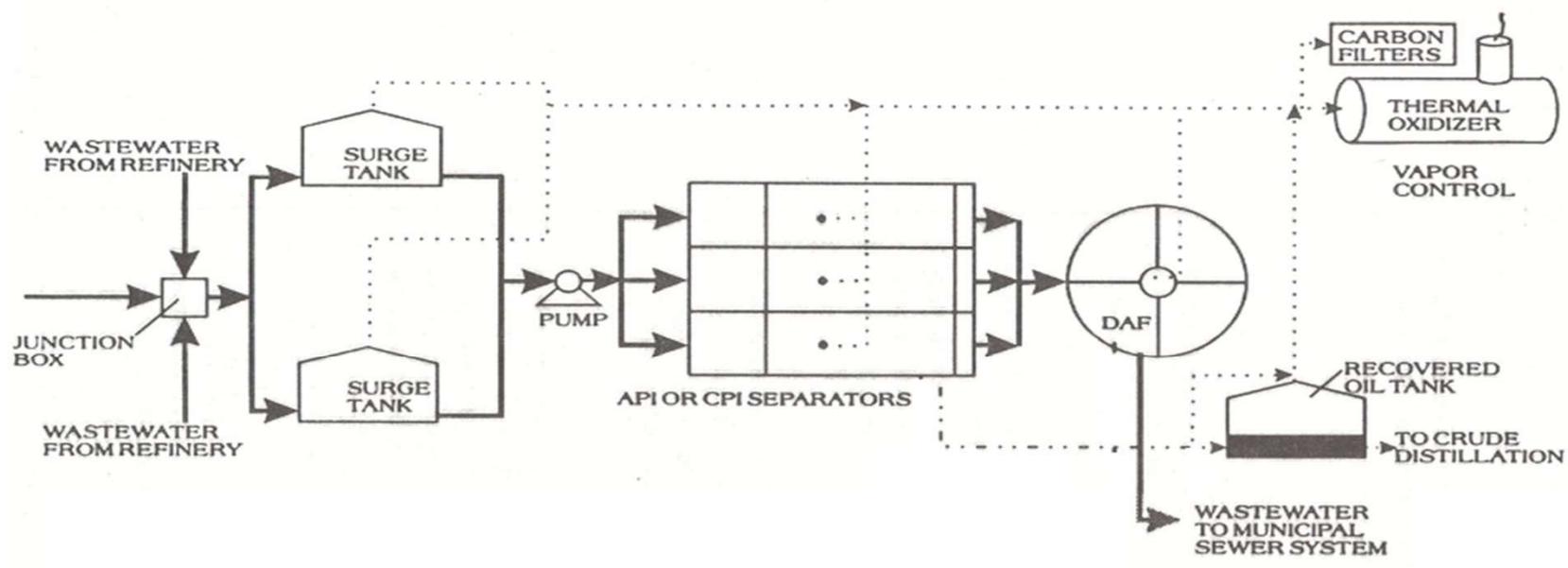
- process drains\*
- sewer lines\*
- junction boxes\*
- manholes\*
- sumps\*
- wastewater separators & associated components\*

◦ \*Specific component definitions are listed in R1176(c)

# The Wastewater System

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# The Wastewater System



## Drain System Component (DSC)

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### **R1176(c)(8): Drain System Components consist of:**

process drain\*

manhole cover\*

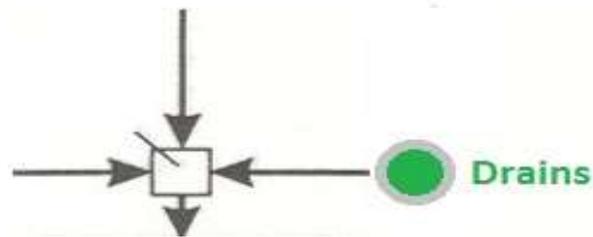
junction box vent\*

excludes closed vent systems\*

# Process Drains

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R1176(c)(19): PROCESS DRAIN is any opening (including covered or controlled openings) which is installed or used to receive or convey wastewater into the wastewater system.





# Types of Refinery Drains

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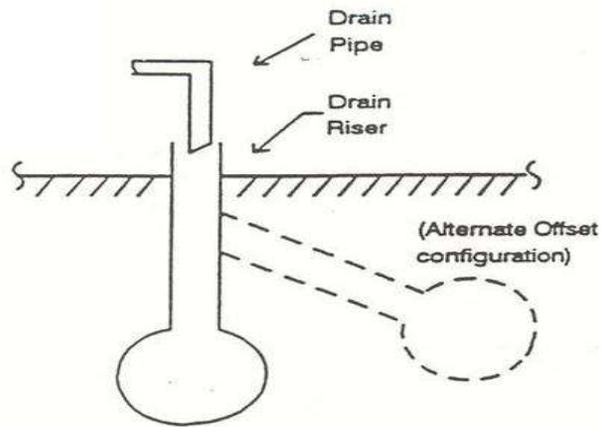
**O**<sub>pen</sub>

**P** - leg seal

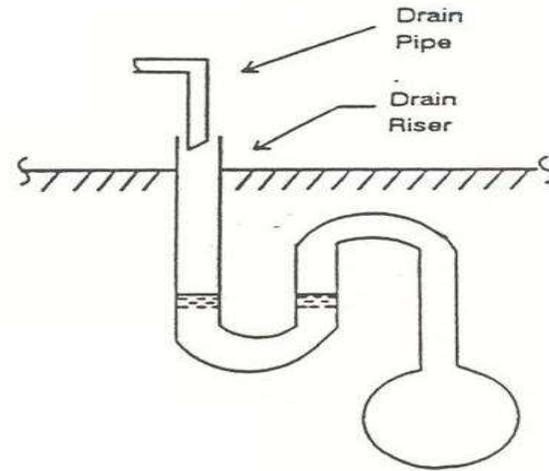
**S**<sub>eal Pot</sub>

**C**<sub>losed Drain</sub>

# Refinery Drain Types

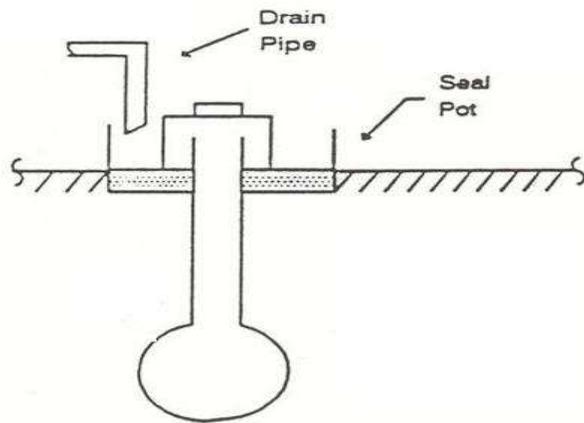


Open, Unsealed  
Configuration A

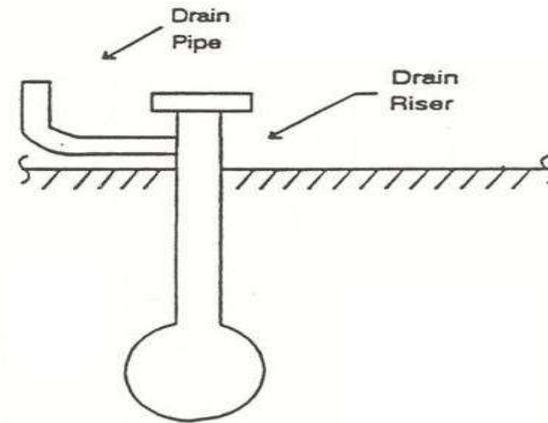


P-Leg Seal  
Configuration B

# Refinery Drain Types



Seal Pot  
Configuration C



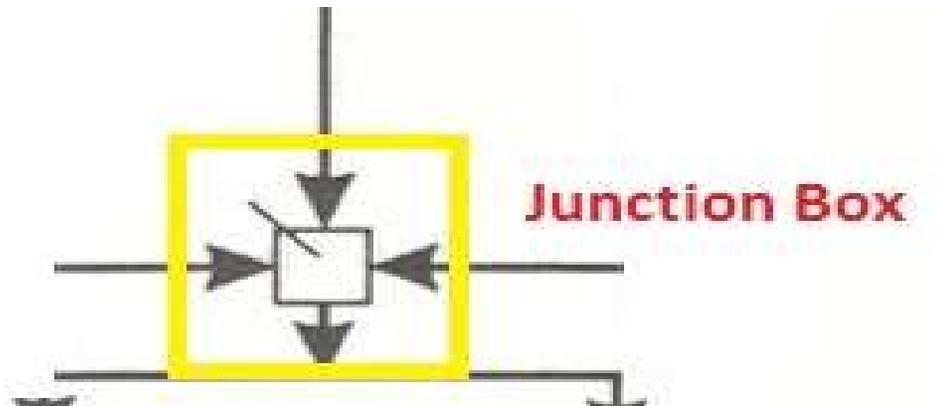
Closed Drain  
Configuration D



# Junction Box

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R1176(c)(15): JUNCTION BOX is a structure with a manhole or access point to a wastewater sewer system lines.



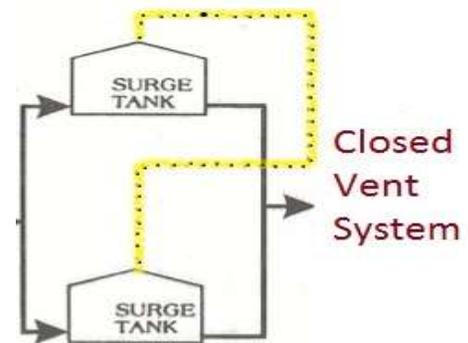


## Closed Vent System (CVS)

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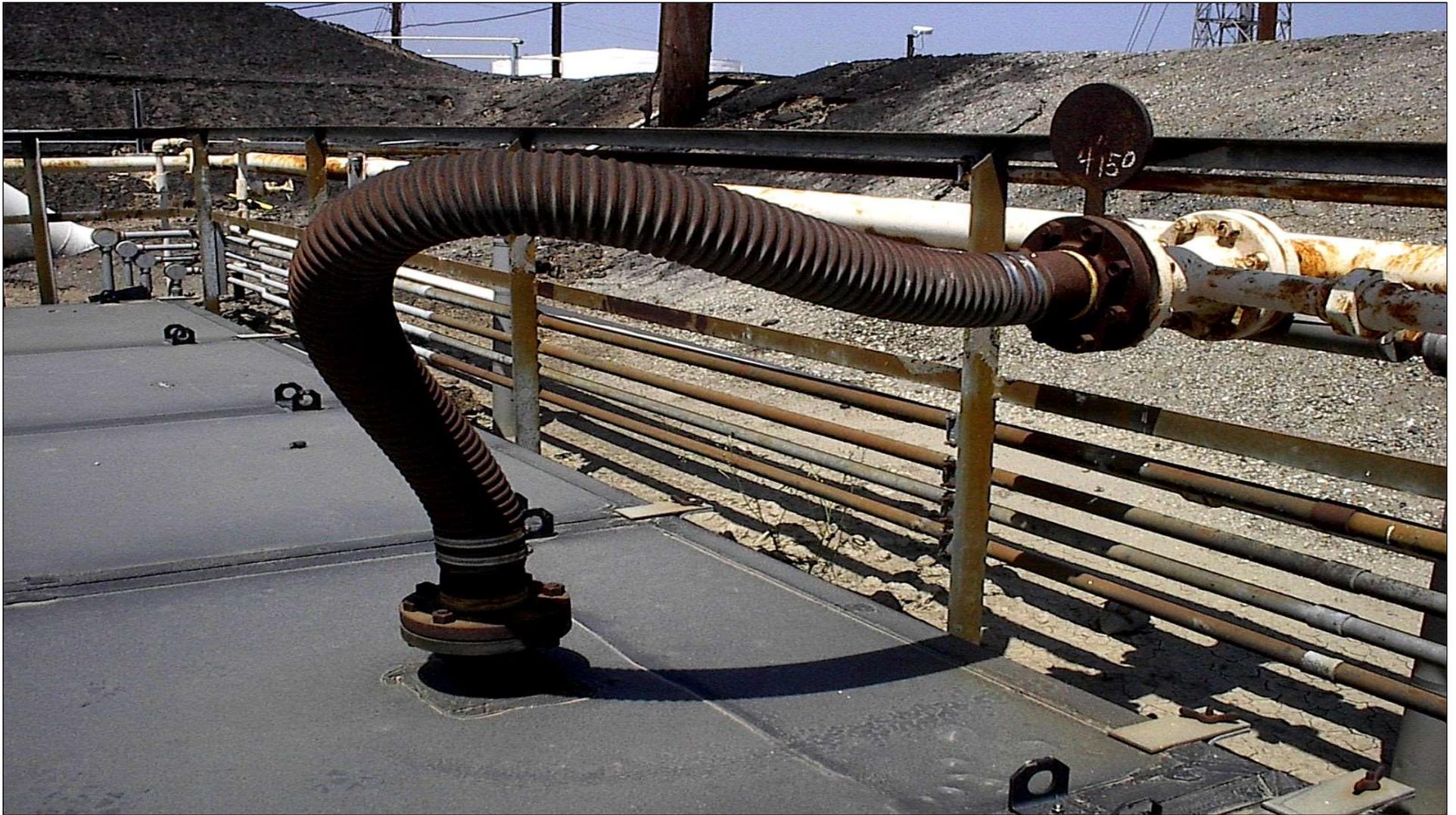
R1176(c)(7): Closed Vent System is:

composed of piping, ductwork, connections transporting **gas or vapor** from an emission source to an APC device or into gas recovery and/or combustion equipment



Components of the closed vent system

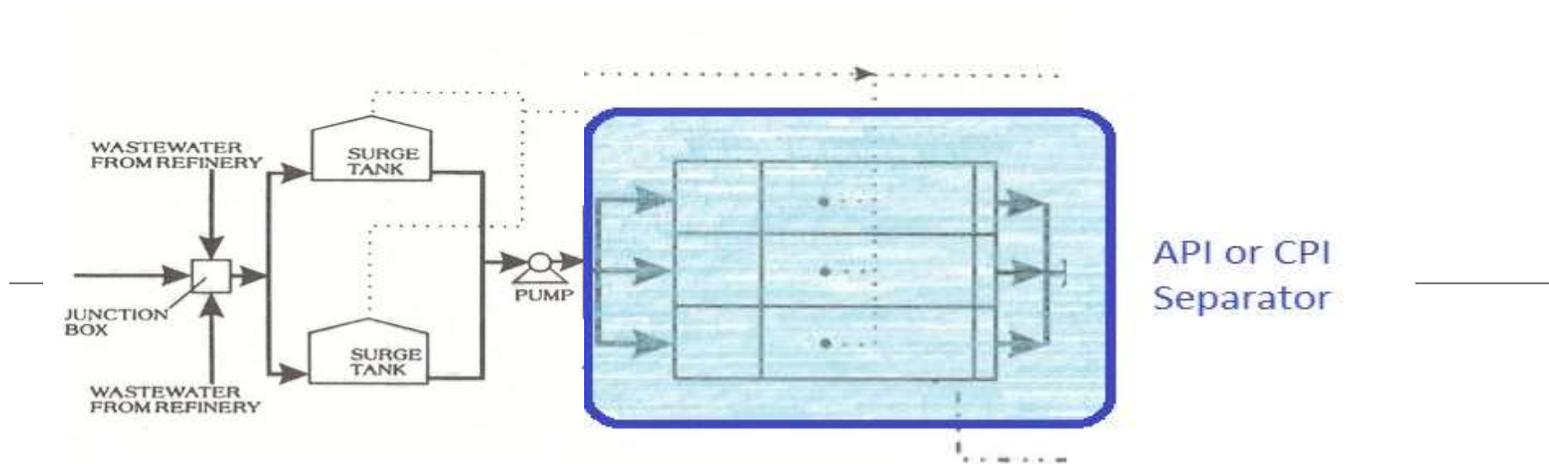
must not be open to the atmosphere





# Wastewater Separators

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R1176(c)(25): WASTEWATER SEPARATOR is:

any device, used to separate petroleum liquids and/or  
VOC containing liquids from wastewater including such  
devices as:

separator forebays\*,

clarifiers and

tanks (including dissolved air flotation tanks,

induced gas flotation tanks and induced air flotation tanks)

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# API Separator

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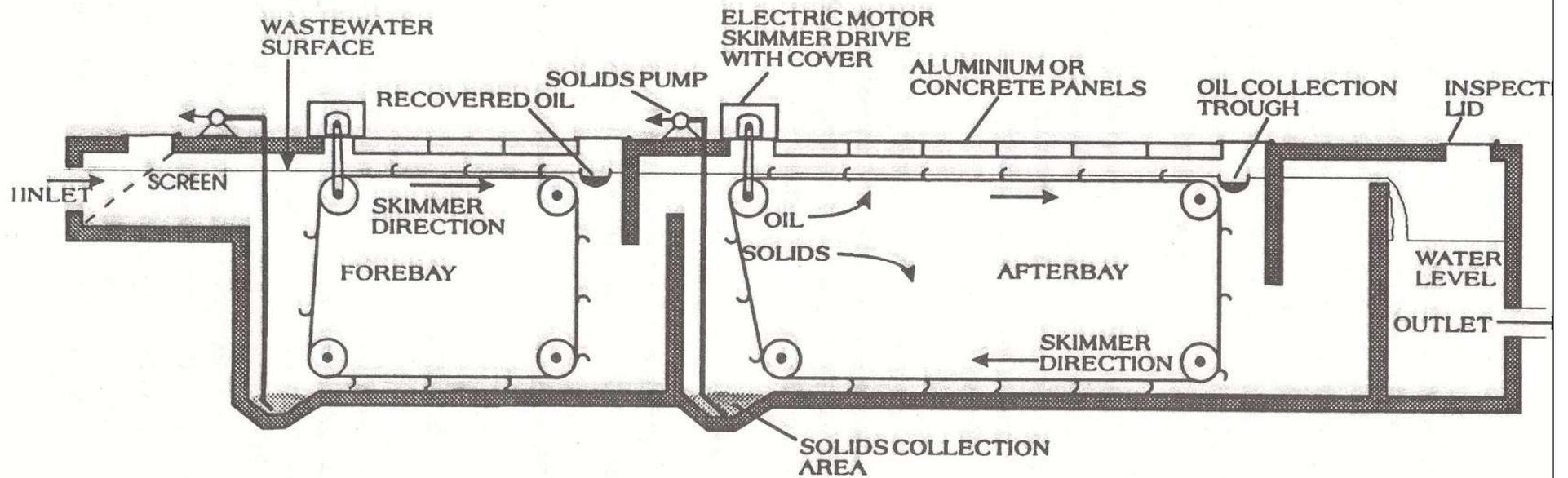


Figure 303.3 API Separator



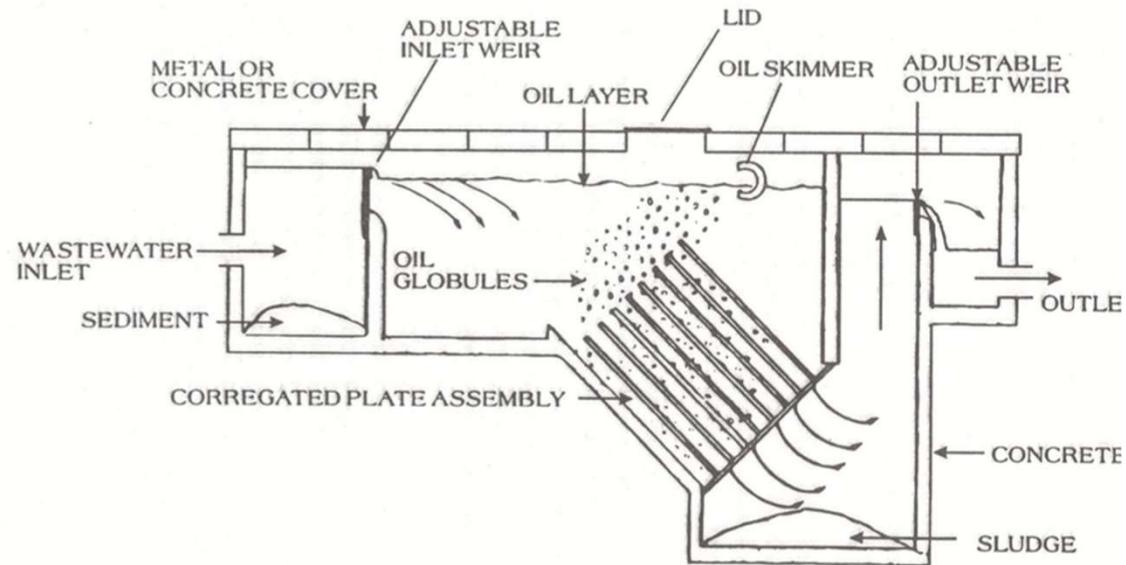


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# Corrugated Plate Interceptor (CPI) Separator

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# Corrugated Plate Interceptor (CPI) Separator

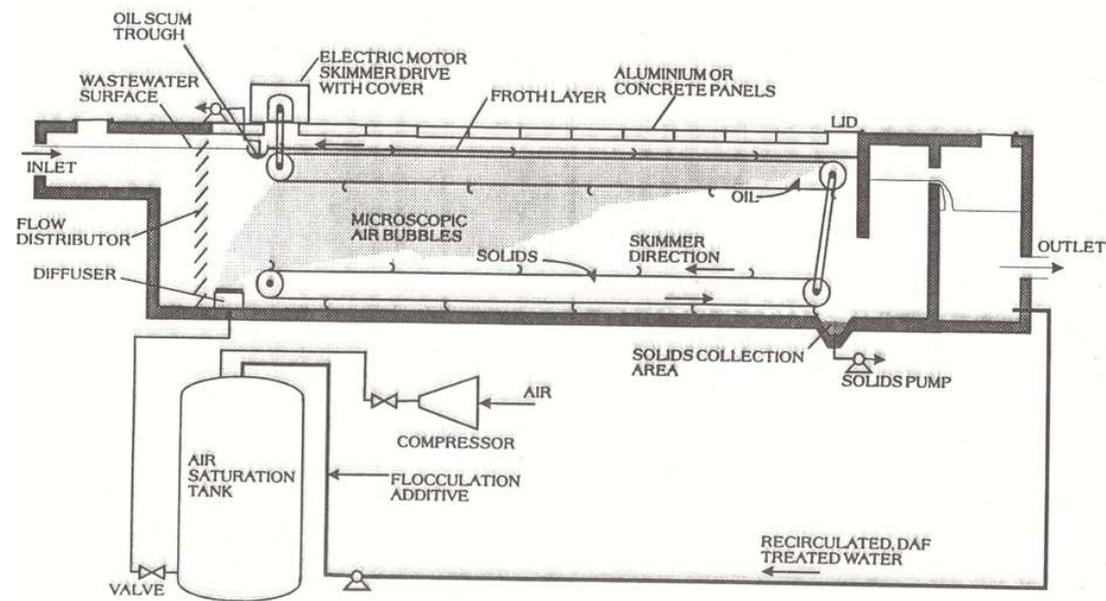


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# Dissolved Air Flotation (DAF) Unit

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# Dissolved Air Flotation (DAF) Unit







# TANK SEPARATOR

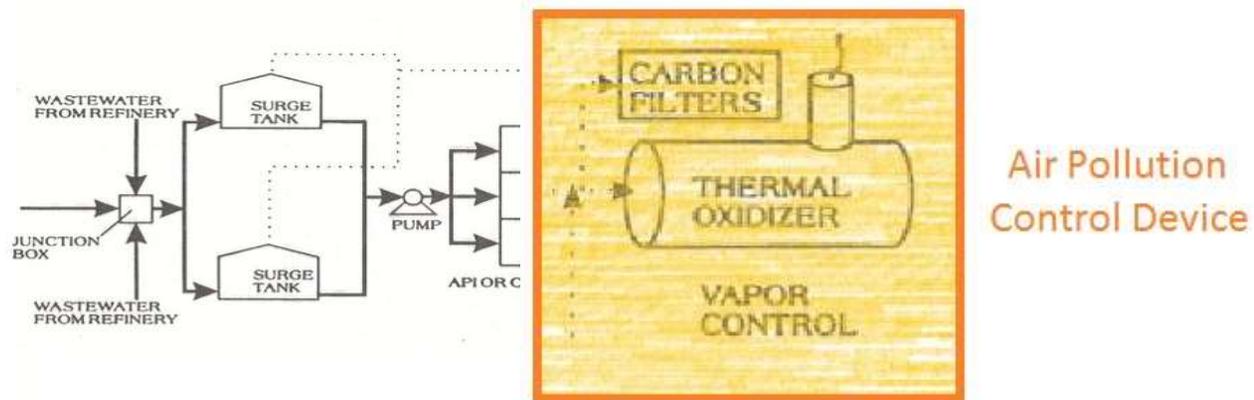
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# Air Pollution Control Equipment

1176(c)(2) AIR POLLUTION CONTROL (APC) DEVICE: means air pollution control equipment which eliminates, reduces or controls the issuance of air contaminants.



# Air Pollution Control Equipment

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## Absorption

- Carbon canisters

## Combustion

- Incinerator
- Make-up Heater
- Thermal Oxidizers



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# RULE 1176

# JURISDICTION

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## Jurisdiction

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### **Non Refineries**

**On-shore Oil Production  
Fields (SIC No. 1311)**

**Off-shore Oil Production  
Platforms (SIC No. 1311)**

**Chemical Plants (SIC first three  
digits are 282)**

**Industrial Facilities (SIC Code  
Nos. 492 or 461)**

## AQMD

- Review and approve industry compliance plans and reports
- Conduct unannounced inspections of industry wastewater systems
- Enforcement action
- Evaluate need for new or amended rules and regulations to further reduce wastewater emissions

## INDUSTRY

- Submit compliance plans
- Conduct inspections according to Rule 1176 requirements
- Submit compliance reports
- Ensure non-compliant DSCs are repaired and re-inspected within time limits required by Rule 1176

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# RULE REQUIREMENTS

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# Rule Requirements

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Compliance Plan

Wastewater System Operation & Control Requirements

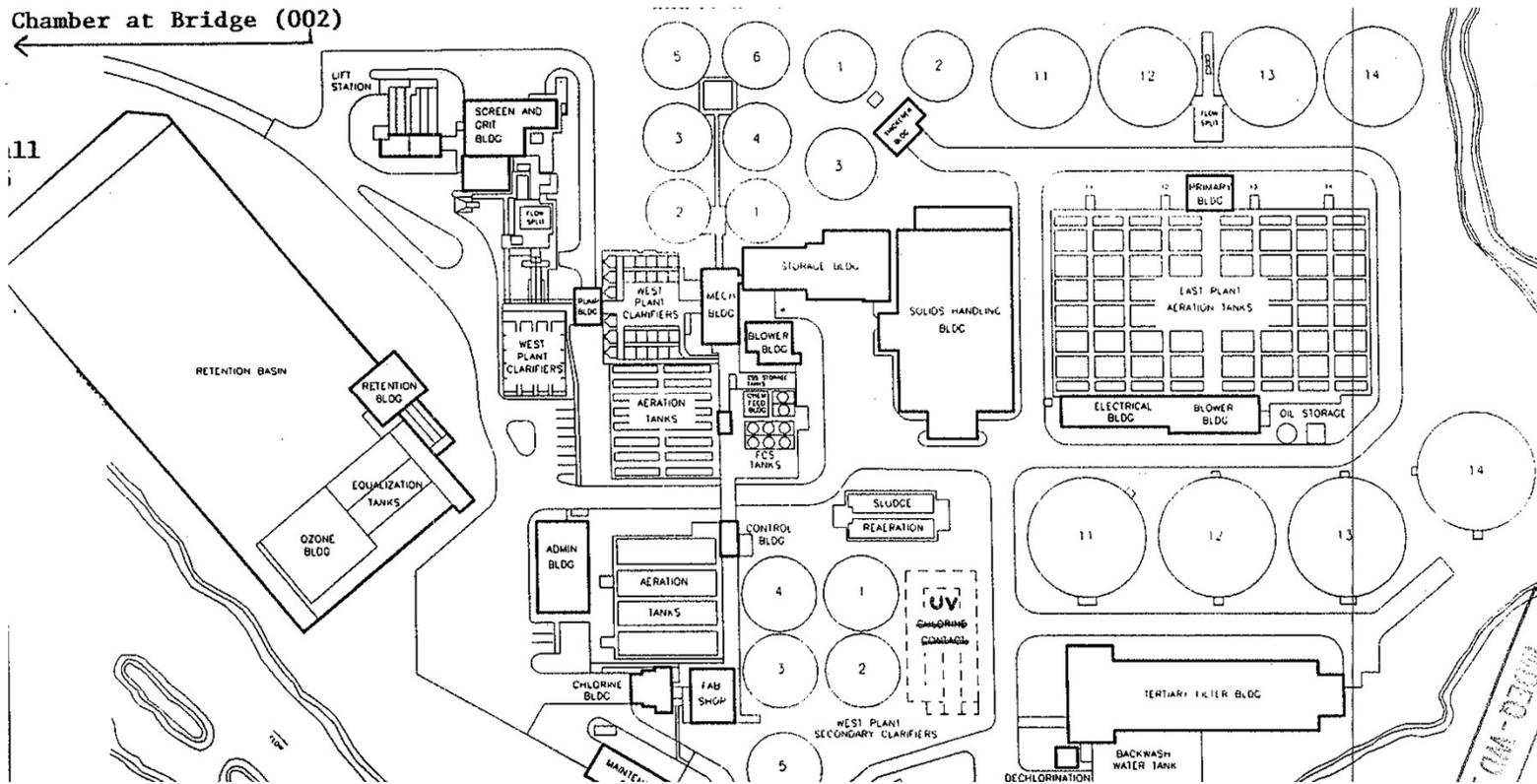
- Refinery
- Industrial Facilities

Monitoring & Repair Requirements

Reporting & Recordkeeping

Exemptions

# R1176 Compliance Plan



## Non-Refinery Compliance Plan

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1176(d)(1) : Within 60 days of written request by AQMD, submit:

- detailed schematic of the location of all
  - WW System components
  - all associated APC devices.

## Refinery Compliance Plan

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R1176(d)(2):Submit Compliance Plan by 6/30/97 that includes:

- Detailed schematic of WW System and associated APC devices
- Complete DSC list, type of DSC control and DSC categorization
- DSC Emission Control option (e)(7)(A) or (e)(7)(B)

## Refinery Compliance Plan continued

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R1176(d)(2) : Submit Compliance Plan by 6/30/97 that includes:

- Historical monitoring data used to categorize each DSC
- I.D. control methods, if necessary, for each junction box vent based on its emissions
- Description of any alternate DSC control and its specific applications



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# WASTE WATER SYSTEM OPERATION AND CONTROL REQUIREMENTS

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## Drain System Component (DSC)

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**R1176(c)(8): Drain System Components consist of:**

process drain\*

manhole cover\*

junction box vent\* or

other wastewater system vent\*

excludes closed vent systems\*

## DSC Categorization R1176(c)(8)

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**Drain System Components are categorized according to their emission history:**

- Non-emitting
- Low-emitting
- High-emitting
- Repeat-emitting

# Non-Emitting Drain System Component

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**R1176(c)(8)(A): A non-emitting DSC is a DSC which:**

Controlled DSC\* which:

- uses gas tight barrier between sewer and atmosphere and,
- no VOC emissions above 10 ppm in past 6 months, or

Uncontrolled DSC

- no VOC emissions above 10 ppm in past 24 months

◦ \*DSC Control defined in R1176(c)(9)

## LOW-EMITTING DSC

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R1176(c)(8): Low-Emitting Drain System Component is a DSC which has:

No excess emissions past 6 month

Effectively controlled pursuant to R1176(e)(7)(A) - for Repeat-Emitting DSCs

*R1176(e)(7)(A) Control of Repeat Emitting DSCs:*

*Within 60 days or longer, as approved by the Executive Officer, after a DSC becomes a repeat emitting DSC, effectively controlling the DSC by installing a DSC control, if previously uncontrolled, or a more efficient DSC control to eliminate excess emissions from the DSC.*

R1176(c)(10):

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EXCESS EMISSIONS =

greater than 500 PPM

# HIGH-EMITTING Drain System Component (DSC)

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R1176(c)(8)(C): A High-Emitting Drain System Component is a DSC which:

has at least **one** excess emission in the  
most recent 6 months

## REPEAT-EMITTING Drain System Component

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R1176(c)(8)(D): A repeat-emitting DSC is a petroleum refinery DSC that: emitted excess emissions **at least 3 times in any consecutive 12 months**, unless effectively controlled pursuant to subparagraph R1176(e)(7)(A).

*R1176(e)(7)(A) Control of Repeat Emitting DSCs:*

*Within 60 days or longer, as approved by the Executive Officer, after a DSC becomes a repeat emitting DSC, effectively controlling the DSC by installing a DSC control, if previously uncontrolled, or a more efficient DSC control to eliminate excess emissions from the DSC.*

# DSC Categorization R1176(c)(8)

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## Non-emitting

Readings  
<10ppm  
Per 6 MO

## Low Emitting

One <10<500  
Per 6 MO

## High emitting

One <500 ppm  
Per 6 Mo

## Repeat Emitting

Three <500ppm  
Per 12 Mo

# Drain System Component Emission Controls

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R1176(c)(9): A DSC control is :

any DSC control measure which utilizes:

- Water seal controls\*
- Air Pollution Control (APC) devices\*
- Hard piping, or
- Complete capping, plugging, or source elimination
- Alternate control approved in writing by the Executive Officer

\*Specific component definitions are listed in R1176(c)



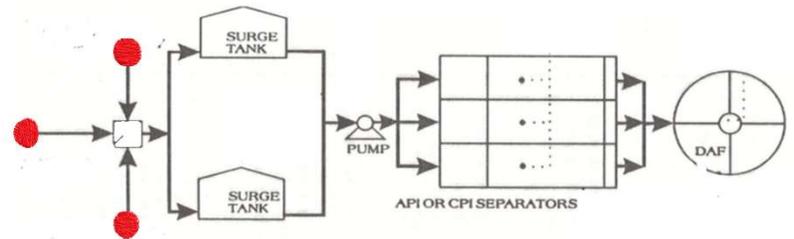
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# Refinery Drain System

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## Process Drains

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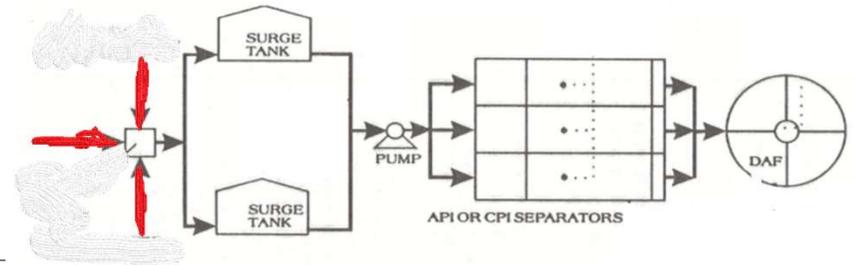


**R1176(e)(4): Any new process drain installed after September 13, 1996, shall be equipped with water seal controls or any other alternative control measure which is demonstrated by the applicant to be equivalent, or more effective than water seal controls in reducing VOC emissions, as approved in writing by the Executive Officer.**



# Sewer Lines

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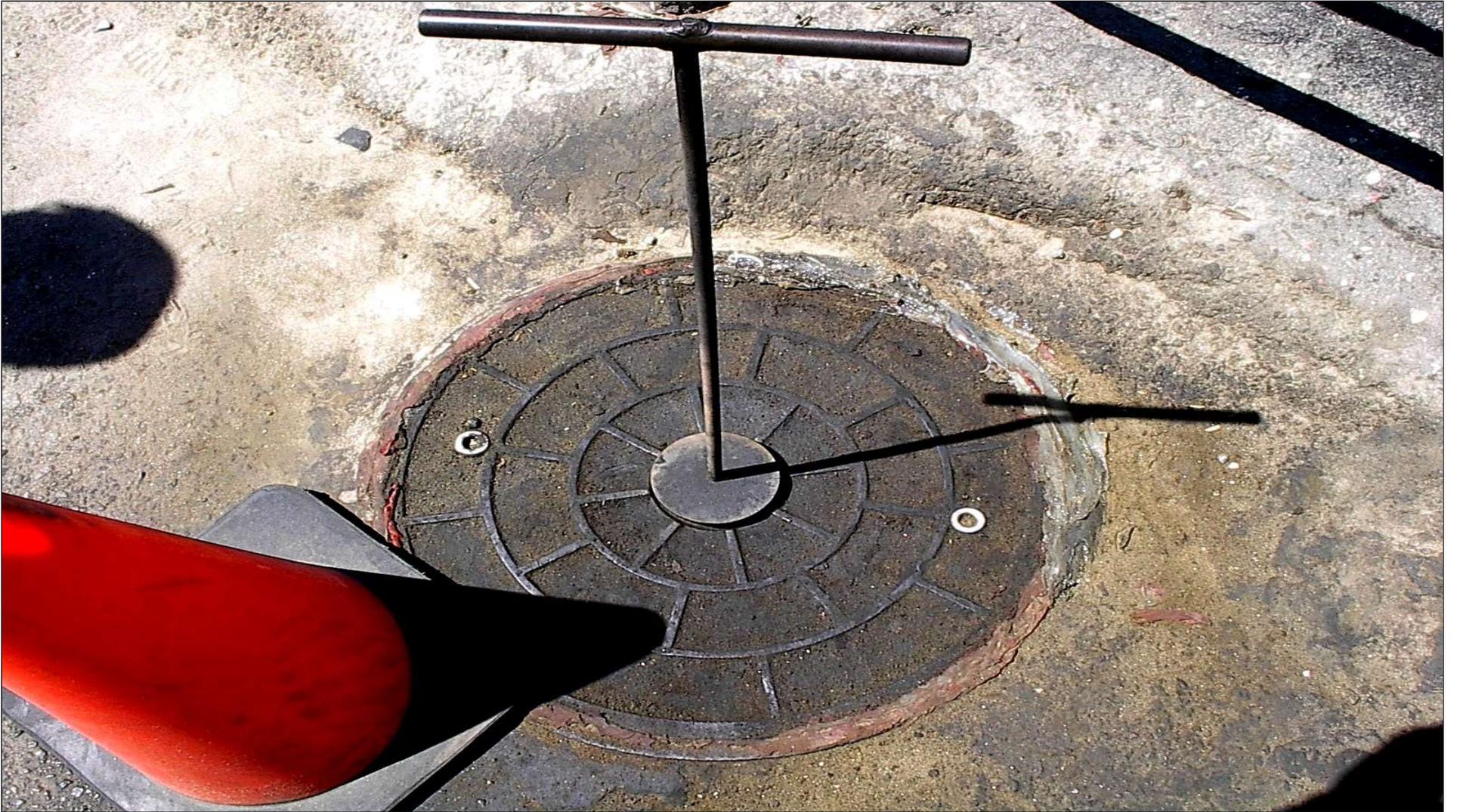


R1176(c)(21):SEWER LINE is a lateral trunk line, branch line, ditch, channel, or other conduit used to convey wastewater.

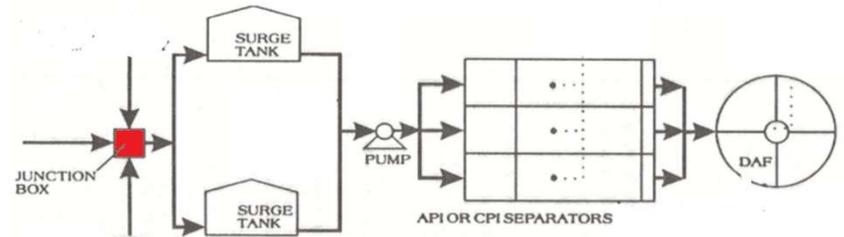
R1176(e)(3)(A): Sewer lines **must be completely enclosed** so that no liquid service is exposed to the atmosphere, including manhole covers except for:

- **M**aintenance,
- **A**ctive inspection,
- **R**epair,
- **S**ampling





## Junction Boxes\* R1176(c)(15)



R1176(e)(5)(A): Junction boxes shall be **totally enclosed with a solid, gasketed, fixed cover or a manhole cover.**

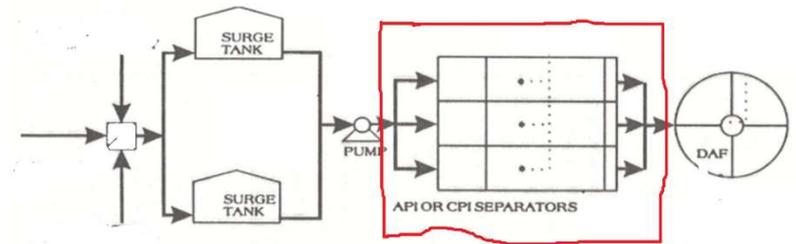
Each fixed cover shall be allowed to have an open vent pipe no more than four inches in diameter and at least three feet in length.

Each manhole cover on junction boxes shall be allowed to have openings totaling no more than 12 square inches. **The manhole cover shall remain fully closed**, except when opened for active inspection, maintenance, sampling, or repair.





## Sump & WW Separator Covers



R1176(e)(2)(B):Sump and Wastewater Separator Covers, both fixed and floating, shall meet all of the following requirements:

**Cover material shall be impermeable to VOCs**

**Cover material shall be free of holes, tears, openings**

Drains need slotted membrane cover

- 90% coverage

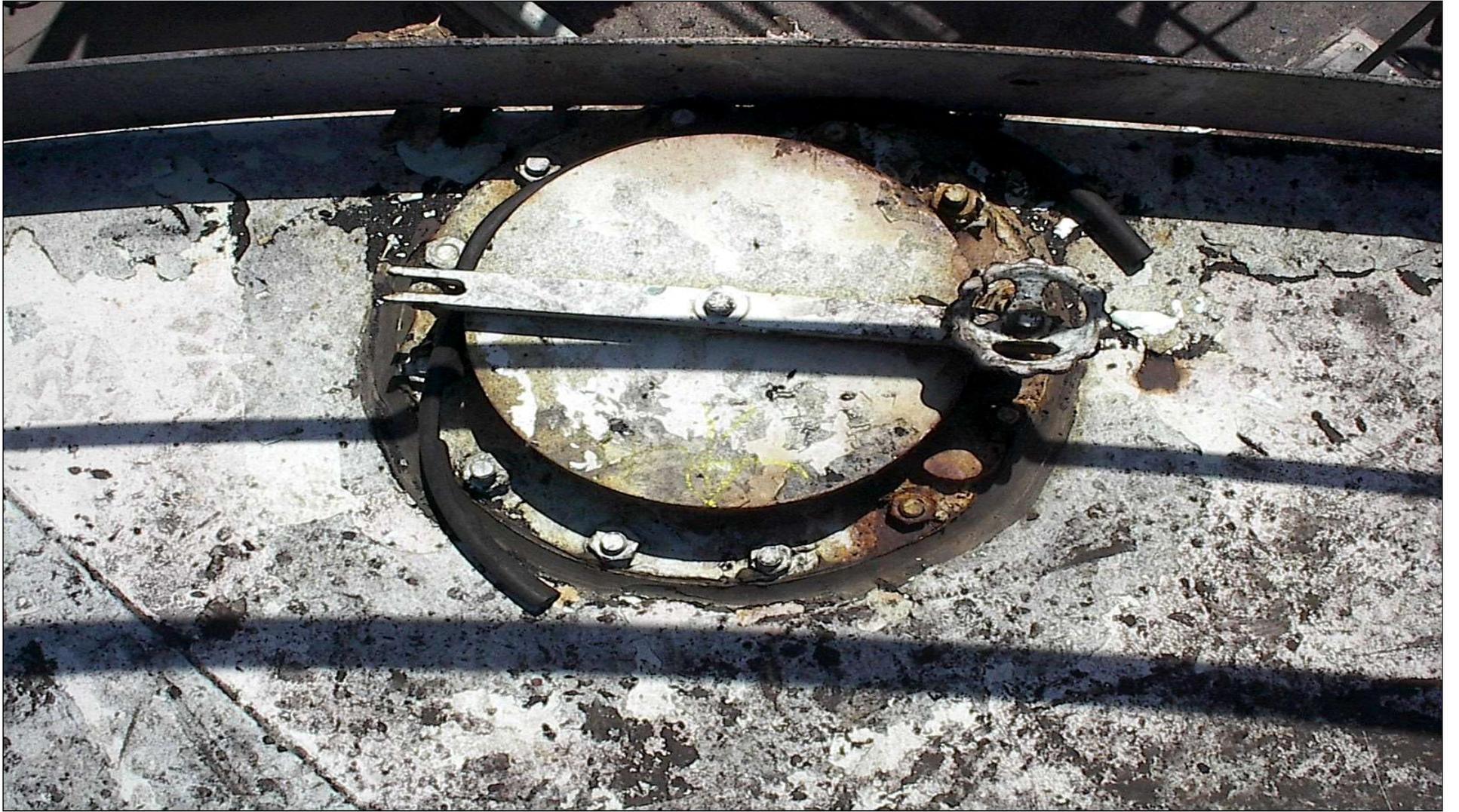
Gauging or sampling openings covered

Hatches closed and free of gaps

Fixed covers sealed with no gaps

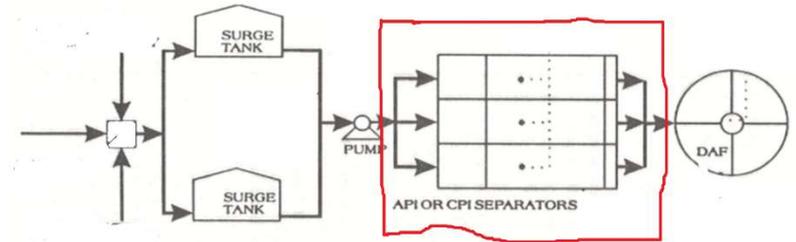






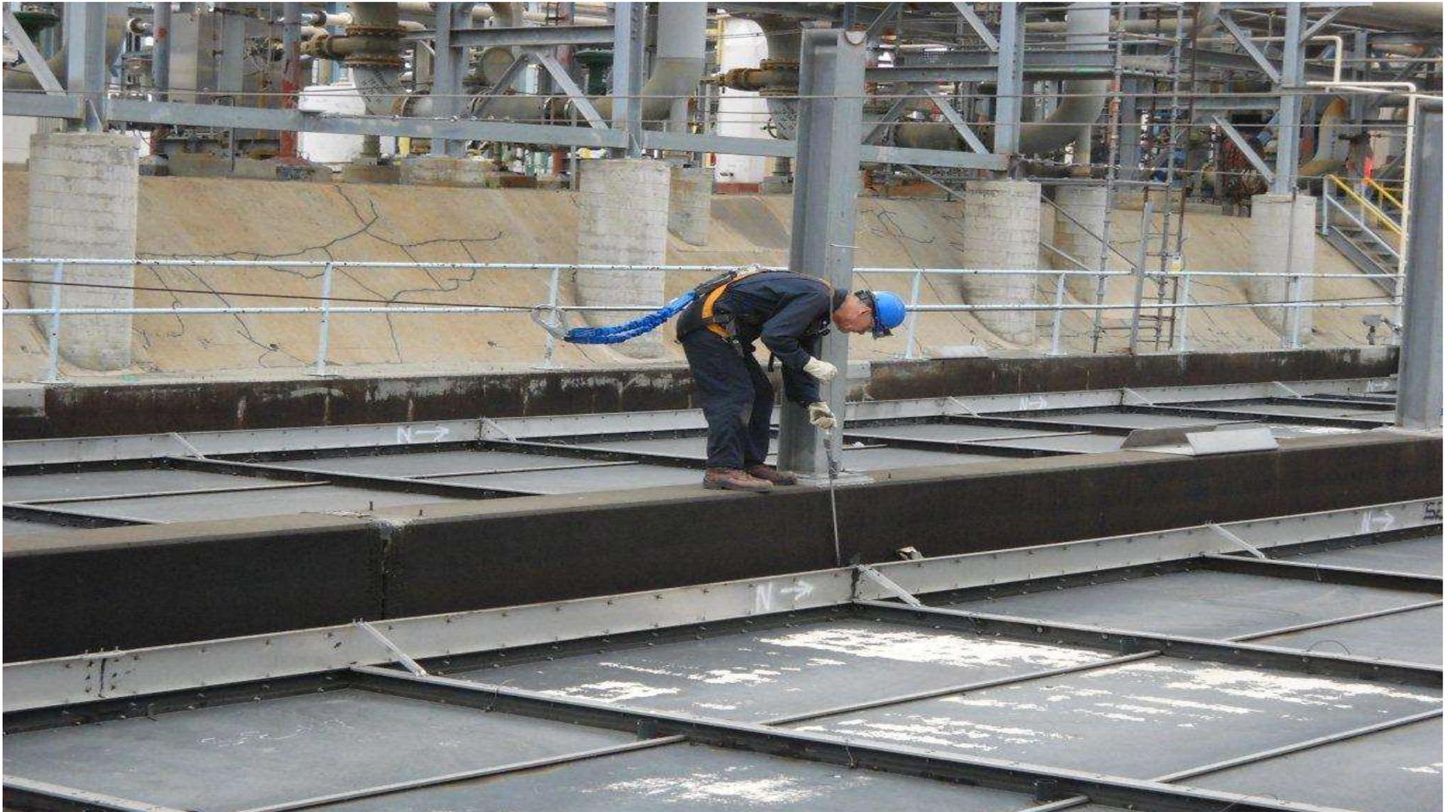
# Sump & WW Separator Covers

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Floating covers: R1176(e)(2)(B)(vi):

- Gap between wall and seal not to exceed 1/8 inch for cumulative length of 97 percent of perimeter and,
- No gaps between wall and seal to exceed 1/2 inch



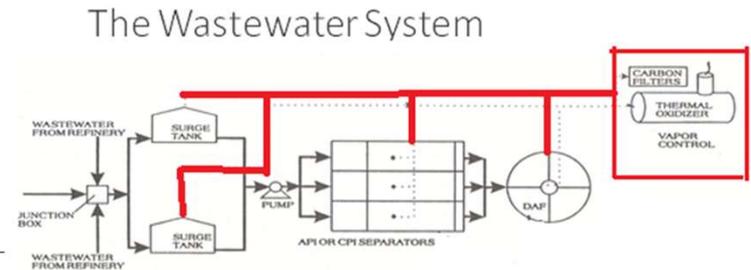


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## Air Pollution Control (APC) Device performance requirements



R1176(e)(6): APC operation must meet ONE of following requirements:

- Control efficiency of 95% or higher
  - annual performance source test required
- Emissions at the Outlet less than 500 ppm
- Alternate equivalent permitted system



SWITCH CANISTERS WHEN  
VOC ALARM FLASHES AT 500

04.21.2010 08:30

# INCINERATOR



# Refinery DSC Control Requirements

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The Refinery must designate which plan for controlling emitting DSCs:

- **Option (e)(7)(A)**
  - Control of repeat emitting DSCs
- **Option (e)(7)(B)**
  - Control of all DSCs

## Option (e)(7)(A): Repeat Emitting DSCs

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### Uncontrolled DSCs:

- After a DSC becomes a repeat emitting DSC, Install DSC control **within 60 days**, or longer with approval of Executive Officer

### Previously controlled DSCs:

- Install more efficient DSC control **within 60 days** or longer, with approval of Executive Officer

Option (e)(7)(B): All DSCs.

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**100 PERCENT OF UNCONTROLLED  
DSCs SHOULD BE CONTROLLED BY  
DECEMBER 31, 2000.**

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# INSPECTION PROTOCOLS

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## Non-Refinery R1176(f)(1)(C)

- **Quarterly** – Wastewater separators,
  - associated Closed Vent System(s) and Drain System Components (DSC)
- **Annually** – non-emitting DSCs, inaccessible DSCs\* [R1176(c)(13)]

# Refinery Inspection Protocols

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## Refineries R1176(f)(1)(A)

### Controlling Repeat-Emitting DSCs per Option (e)(7)(A):

- **Monthly**
  - High Emitting DSCs, WW separators and associated CVS(s)
- **Semi-annually**
  - Non-emitting DSCs
  - Low-emitters - if  $\leq 0.5\%$  all DSCs emitted excess emissions in last 12 months
- **Annually**
  - Inaccessible DSCs [R1176(c)(13)]

# Refinery Inspection Protocols

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## Refineries R1176(f)(1)(A)

### Controlling Repeat-Emitting DSCs per Option (e)(7)(B):

- **Monthly**
  - Wastewater separators and associated closed vent systems.
- **Quarterly**
  - DSCs (Excludes Non-Emitting DSCs)
- **Semi-annually**
  - Non-Emitting DSCs
- **Annually**
  - Inaccessible DSCs [R1176(c)(13)]

# Inspection and Monitoring Frequency

## R1176(f)(1)(A)

R1176(e)(7)(A)		R1176(e)(7)(B)	
Repair High Emitting DSCs		Install Controls on all DSCs	
EQUIPMENT	FREQUENCY	EQUIPMENT	FREQUENCY
Wastewater separator(s) and associated closed vent system(s)	Monthly	Wastewater separator(s) and associated closed vent system(s)	Monthly
High-Emitting DSCs	Monthly	DSCs (Excluding Non-Emitting DSCs)	Quarterly
Low-Emitting DSCs	Quarterly		
Non-Emitting DSCs	Semi-annually	Non-Emitting DSCs	Semi-annually
Inaccessible DSCs	Annually	Inaccessible DSCs	Annually

# REPAIRS and Reinspection R1176(f)(3)

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## REPAIRS :

- **within 3 calendar days**
- **[1 - 2- 3- 4]**
- **Wastewater systems with excess emissions or otherwise found in violation through either operator inspection or District inspection shall be repaired or rectified within three calendar days of detection.**
- **The operator shall take all feasible steps to minimize emissions during the repair or replacement period.**

# REPAIRS and Reinspection R1176(f)(3)

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## REINSPECTION R1176(f)(3):

- **Refineries** - between 24 to 48 hours after repair
- **Non-Refinery** - between 24 hours to 15 days after repair
- **The repaired or rectified component shall be reinspected by the facility operator between 24 hours to 48 hours for petroleum refineries and between 24 hours to 15 calendar days for other facilities after the repair or rectification to ensure that the repaired or rectified component is in compliance with this rule. The operator shall take all feasible steps to minimize emissions during the repair or replacement period.**

## Exemptions R1176 (i)

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Special conditions in which rule requirements are suspended.

# Exemptions R1176 (i)

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**Partial Exemptions**

**Complete Exemptions**

## PARTIAL EXEMPTIONS R1176 (i)

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Provisions of  
(e)(1) shall not  
apply to Active  
Draining



## PARTIAL EXEMPTIONS R1176 (i)

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Operator Detected Violations  
are exempt from  
provisions of  
(e)(1) & (e)(2)(B)



# PARTIAL EXEMPTIONS R1176 (i)

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## Natural Gas Handling Facilities



# COMPLETE EXEMPTIONS R1176 (i)

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## COMPLETE EXEMPTIONS R1176 (i)

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### Safety:

Components which present a safety hazard for inspection as **documented and established in a previous safety manual or policy**, or with the prior written approval of the Executive Officer except that these components shall be monitored for excess emissions when it is safe to do so.

## COMPLETE EXEMPTIONS R1176 (i)

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Pressure-vacuum valves  
when open, due to a vacuum  
produced within the  
wastewater system.



# COMPLETE EXEMPTIONS R1176 (i)

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Spill containment for tanks



# COMPLETE EXEMPTIONS R1176 (i)

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Open pipe channels designed for spill containment



# COMPLETE EXEMPTIONS R1176 (i)

Rule 463 tanks

**ORGANIC LIQUID STORAGE**



# COMPLETE EXEMPTIONS R1176 (i)

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Equipment subject to Rule 1173

Rule 1173 – Control of VOC Leaks and releases from components at petroleum facilities and chemical plants



## COMPLETE EXEMPTIONS R1176 (i)

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Equipment, including catch basins, **exclusively** handling rain water, storm water, and non-contact water\*.

## COMPLETE EXEMPTIONS R1176 (i)

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Well cellars used in emergencies at oil production fields, if clean-up procedures are implemented within 24 hours after each emergency occurrence and completed within ten (10) calendar days.

## COMPLETE EXEMPTIONS R1176 (i)

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Sampling junction boxes of the wastewater system prior to discharge into the municipal sewer lines and which are designated as the legal sample point on the facility's industrial wastewater permit.

## COMPLETE EXEMPTIONS R1176 (i)(5)(J)

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Wastewater system(s), if the VOC content of each liquid stream entering each sump and/or wastewater separator does not exceed at all times 5 mg per liter

## COMPLETE EXEMPTIONS R1176 (i)(5)(K)

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Biological Wastewater systems if VOC samples measure less than or equal to 5 mg per liter when entering secondary treatment

# COMPLETE EXEMPTIONS R1176 (i)(5)(L)

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Sanitary Sewers not processing wastewater

# Rule 430

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## Breakdown Provisions

- This rule applies to any breakdown which results in a violation of any rule or permit condition

Relief from permit conditions due to breakdown can be granted by:

- 1) Notification within one hour of such breakdown
- 2) Cause of breakdown not due to operator error or neglect
- 3) Mitigation of emissions

Equipment breakdowns covered by Rule 430 are not exempt from Rule 402

# Rule 402

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## Public Nuisance

A person shall not discharge from any source whatsoever such quantities of air contaminants or other material which cause injury, detriment, nuisance, or annoyance to any considerable number of persons or to the public

- The facility may be operating compliant to Rule 1176 and to permit conditions, however, the facility can be found in violation of Rule 402.
- Notice of Violation issuance for Rule 402 for a single event based on multiple confirmed complaints received over a given period of time
- Equipment breakdowns covered by Rule 430 are not exempt from Rule 402

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# Key points for an inspection

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# Key Points for an Inspection

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High Traffic Areas

Aged Equipment

Dirt, Stains and Grime

Repeat Emitting DSCs

Moving Parts

Previous Repairs

High Background

Odors

# Rule 1176

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OIL PRODUCTION FIELDS, CHEMICAL  
PLANTS, AND INDUSTRIAL SOURCES

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## Non-Refinery Definitions

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**Oil Production Field** is a facility at which crude petroleum production and handling are conducted.

**Chemical Plant** is defined as any facility engaged in producing chemicals and/or manufacturing products by chemical processes.

**Industrial Facilities** are those engaged in the production and distribution of natural gas, pipeline distribution or wholesale distribution of crude petroleum and petroleum products.

## Non-Refinery Compliance Comparison

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Quarterly inspections for wastewater separators, closed vent systems, and DSCs.

Extended time for re-inspection of repaired components, between 24 hrs to 15 calendar days.

## Non-Refinery

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### Some Common Areas of Concern

Drainage of process fluids from stock tanks

WEMCO DAF units

Sumps

Hatches on Clarifiers

Sampling points

## Non-Refinery

Some Common Areas of Concern

### Leaks and Spills



## Non-Refinery

Some Common Areas of Concern

Stock Tank Drainage



## Non-Refinery

Some Common Areas of Concern

Stock Tank Drainage

Correction:  
Flow rerouted



# Non-Refinery

Some Common Areas of Concern

WEMCO DAF Units



# Non-Refinery

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Some Common Areas of Concern

WEMCO DAF Units

Worn seals



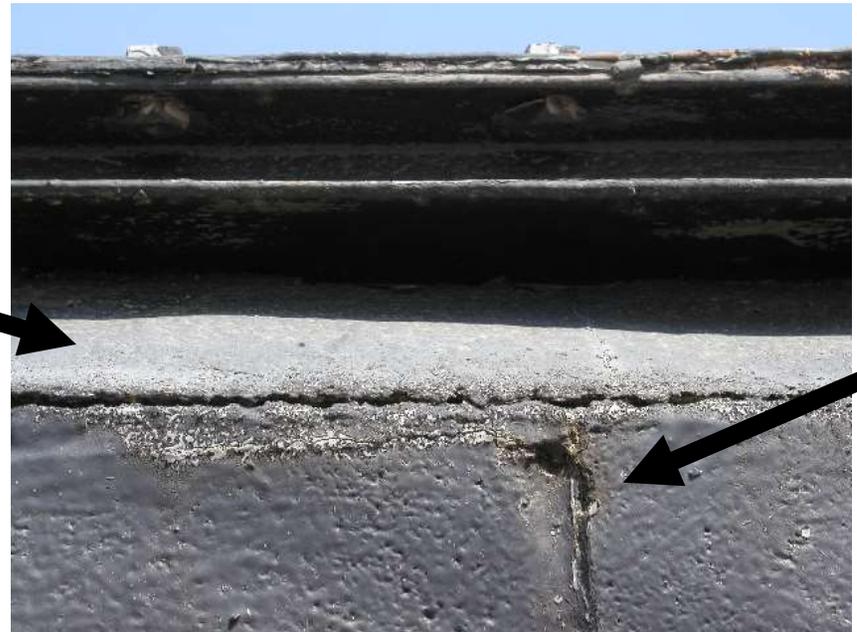
# Non-Refinery

Some Common Areas of Concern

WEMCO DAF Units

Uneven surfaces

Holes



# Non-Refinery

Some Common Areas of Concern

Tanks

Roof and Hatches  
In Poor Condition



# Non-Refinery

Some Common Areas of Concern

Tanks

Roof and Hatches

In replaced and repaired



# Non-Refinery

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Some Common Areas of Concern

Open Wastewater Sluiceway

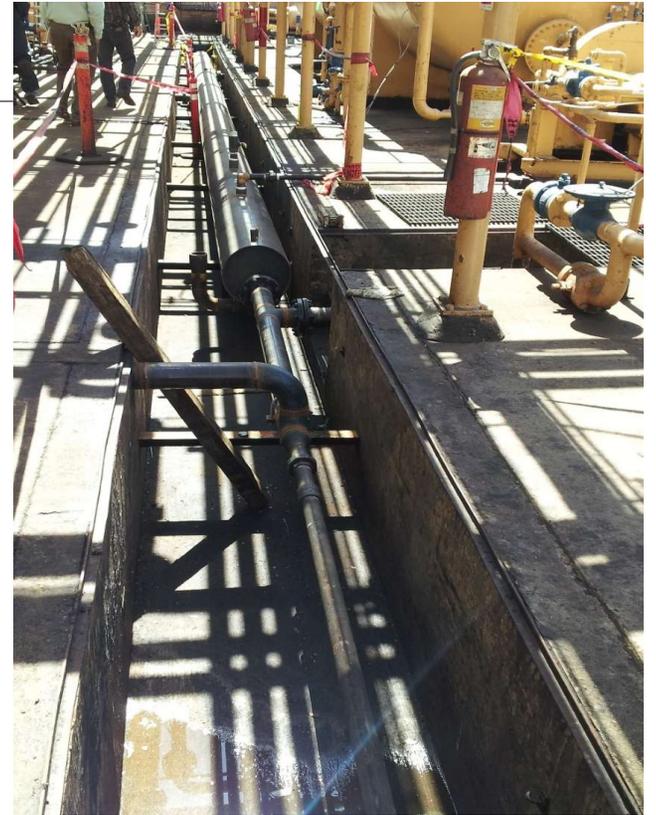


## Non-Refinery

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Some Common Areas of Concern

Wastewater Sluiceway hard piped



## Non-Refinery

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### Preventative Maintenance

Grease hatches on a regular basis

Replaces seals and gaskets on a regular basis

Leak Inspection conducted quarterly or more frequently as needed

# Exemptions

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WW System(s), if the VOC content of each liquid stream does not exceed at all times 5 mg per liter, as determined by EPA Method 8240 or equivalent method

All VOC tests should be sampled and tested by an independent lab

The sample must be taken at the inlet of the liquid stream, prior to the entrance of the WW System(s)

Change in production may change equipment exemption status

# Permitting Issues

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Some equipment (i.e. clarifiers, tanks) may be exempt from permitting per Rule 219

Equipment exempt from permit requirements per Rule 219 may still be subject to Rule 1176

# Clarifier Exempt From Permitting



## Recap

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Process fluids may not drain to open storage basins or tanks unless the fluid has less than 5 mg/L VOC

Moveable parts, hatches, and old equipment are more likely to leak

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# REPORTING & RECORD KEEPING

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## RECORD KEEPING REQUIREMENTS R1176(g)(1)(C)

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Inspection records for the wastewater system shall be made and documented as follows:

Document all written or machine recorded operator inspections

## RECORD KEEPING REQUIREMENTS R1176(g)(1)(C)

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Inspection records for the wastewater system shall be made and documented as follows:

Document all VOC measurements including corresponding background levels,

## RECORD KEEPING REQUIREMENTS R1176(g)(1)(C)

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Inspection records for the wastewater system shall be made and documented as follows:

Document all

source tests,            repairs,

replacements,        and reinspections

## RECORD KEEPING REQUIREMENTS R1176(g)(1)(C)

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R1176(g)(1)(C) Inspection records for the wastewater system shall be made and documented as follows:

(ii) include the date(s) they were taken.

(iii) include the name and signature of the certified inspector (s). An electronic identification code may be used instead of a signature provided that the certified inspector verifies, in writing, that he or she has conducted the inspection and monitoring.

## Example Report for Refineries Complying with R1176(e)(7)(A) – DSCs with Excess Emissions

<b>DSC I.D.</b>	<b>Type</b>	<b>Inspect Date</b>	<b>PPM Level</b>	<b>Corrective Actions</b>	<b>Re-Inspect Date</b>	<b>PPM Level</b>
1	Drain	9/25/19	10000	Flushed with water (9/25/19)	9/26/19	15
2	Sump	9/25/19	7500	Sealed w/caulking (9/25/19)	9/26/19	50
3	Hatch	10/31/19	2200	Sealed w/caulking (10/31/19)	11/1/19	5
4	M.H.C.	10/31/19	25000	Sealed w/caulking (10/31/19)	11/1/19	0

# Reporting Requirements for Refineries

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Additionally.....

R1176(e)(7)(A) (Repeat Emitters 12 mo. Report):

Quarterly Report : Must be **submitted** 30 Days after the end of each quarter listing:

- all DSCs with excess emissions and ppm levels
- Component ID of repeat emitting drains, including ppm levels and repairs within last 12 months
- corrective actions taken pursuant to (e)(7)(A)
- each monitoring record after corrective action until report submitted

## Example Report for Refineries Complying with R1176(e)(7)(A) – Repeat Emitting DSCs

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<b>DSC I.D.</b>	<b>Type</b>	<b>Inspect Date</b>	<b>PPM Level</b>	<b>Corrective Actions</b>	<b>Re-Inspect Date</b>	<b>PPM Level</b>
1	Drain	9/25/11	150			
		1/14/12	1500	Flushed with water (1/14/12)	1/15/12	25
		4/1/12	200			
		6/15/12	800	Flushed with water (6/15/12)	6/16/12	100
		9/25/12	10000	Flushed with water (9/25/12)	9/26/12	15

## R1176 RECORD KEEPING REQUIREMENTS

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R1176(g)(1)(B): maintain records of system operation or maintenance which will demonstrate proper operation and compliance of the APC device during periods of emission producing activities.

## Reporting Requirements for Refineries

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R1176(e)(7)(B) (Control All DSCs):

Semi Annual Report :

Must be **submitted** 30 days after the end of each six month period listing:

- all DSCs having excess emissions

## Reporting Requirements for Refineries

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Example Report for Refineries Complying with R1176(e)(7)(B)

<b>DSC I.D.</b>	<b>Type</b>	<b>Inspect Date</b>	<b>PPM Level</b>
1	Drain	10/25/12	10000
2	Sump	10/25/12	7500
3	Hatch	10/31/12	2200
4	M.H.C.	10/31/12	25000

# R1176 RECORD KEEPING REQUIREMENTS

## Refinery and Non-Refinery

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R1176(g)(1)(A): All records shall be maintained at the facility for a period of **two years** and made available to District staff upon request.

R3004(a)(4)(E): **Facilities under Title V** requirements must retain records for **FIVE years** and made available to District staff upon request.

## Reporting Requirements for Refineries

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### R1176(g)(2)(A): Refineries

Any change to the wastewater system or any other component required to be identified by paragraph R1176(d)(2) [WW Compliance Plan], shall be **submitted** to the District within 60 calendar days after construction is completed.

## Reporting Requirements for Non-Refineries

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### R1176(g)(1)(A): Non-Refineries

All records shall be maintained at the facility for a period of two years and **made available** to District staff upon request.

# Reporting Requirements for Refineries

<b>R1176(e)(7)(A)</b>	<b>R1176(e)(7)(B)</b>
<b>Repair High Emitting DSCs</b>	<b>Install Controls on all DSCs</b>
Quarterly	Semi-Annual

# Reporting Requirements for Refineries

R1176(e)(7)(A) Repair High Emitting DSCs	R1176(e)(7)(B) Install Controls on all DSCs
All DSCs with recordings of excess emissions and levels of emissions in ppm	All DSCs identified to have an excess emission.
Repeat emitting drains including each record of excess emissions and repairs within the last 12 months	
The corrective actions taken pursuant to subparagraph (e)(7)(A)	
Each monitoring record after corrective actions until the report is submitted.	

# Requirements for Non-Refineries

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**Reporting :** Semi-Annual

**Inspection:**

- **Quarterly** – Waste Water separators, associated Closed Vent System(s) and Drain System Components
- **Annually** – non-emitting DSCs, inaccessible DSC

**Recordkeeping :**

APC device for a wastewater system:

System operation, maintenance during periods of emission producing activities.

Wastewater system:

Operator inspections, VOC measurements including corresponding background levels, source tests, repairs, replacements, and reinspection records.

## Verification of Records

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### R1176(g)(3): Verification of Records:

All inspection records and reports submitted to the District, shall be **signed by the facility official with responsibility for operation of the equipment subject to this rule**, to verify that the inspection(s) have been conducted by certified inspectors consistent with the requirements of this rule.

## Verification of Records

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R1176(g)(4) Any inaccurate verification of inspection records shall constitute a **violation** of this rule.

# TEST METHODS

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## Screening Method:

- EPA Reference Method 21

## District Grab Sample Method to determine quantity of Exempt Compounds

## Sample Analysis

- EPA Method 25, or
- District Test Method 25.1

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# DISTRICT GRAB SAMPLE METHOD

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# EXAM

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