

PS 0067
Dry Cleaners
TCE

A Simple Guide To Air Quality Rules For Perc Dry Cleaners

Revised December 1996



A Simple Guide To Perc Dry Cleaning Rules

- All dry cleaners who use perc (perchloroethylene) as their cleaning solvent are required to follow these rules.
- September 22, 1996 is the deadline for dry cleaners to meet the requirements of the rule.
- The state government has the main responsibility for enforcing this rule.
- The rules were written by the federal government and published on September 22, 1993.

This booklet was designed to clarify the dry cleaner air quality rules. It contains nine sections, labeled (A) through (I). To use this guide, simply find the section that applies to your business and follow the Air Quality requirements outlined in that section (**See INSTRUCTIONS below**). At the back of this booklet, in the **ATTACHMENTS** section you will find forms that you need for reporting to the State and for keeping track of leak inspections and control equipment measurements.

INSTRUCTIONS:

Follow the steps outlined below to identify which section applies to your facility:

(1) Identify the TYPE OF EQUIPMENT: transfer system or dry-to-dry system?

- A **transfer system** has a separate washer and dryer. The clothing must be removed from the washer at the end of the washing cycle and placed in a separate dryer. If you use a reclaimer, then your equipment is considered to be a transfer system. New transfer units are allowed **only if they were installed prior to September 23, 1993.** After September 22, 1993, no new transfer units are allowed. However, you are allowed to purchase a facility with an existing transfer system.

IF YOU HAVE A TRANSFER SYSTEM, SEE (2) BELOW.

- A **dry-to-dry system** washes and dries the clothing in the same machine.

IF YOU HAVE A DRY-TO-DRY SYSTEM, SEE (3) BELOW.

(2) TRANSFER SYSTEMS: Identify the amount of perc used per year in your transfer system:

- If your transfer system uses 200 gallons or less of perc per year, **SECTION (A)** will explain the rules for your facility. Turn to **SECTION A**.

- If your transfer system uses more than 200 gallons but no more than 1,800 gallons of perc per year, **SECTION (B)** will explain the rules for your facility. Turn to **SECTION B**.

- If your transfer system uses more than 1,800 gallons of perc per year, **SECTION ©** will explain the rules for your facility. Turn to **SECTION C**.

(3) DRY-TO-DRY SYSTEMS: Identify whether the dry-to-dry system is EXISTING or NEW:

- EXISTING dry-to-dry systems are systems installed before December 9, 1991.

- NEW dry-to-dry systems are systems installed on or after December 9, 1991.

IF YOUR DRY-TO-DRY SYSTEM IS EXISTING, SEE (4) BELOW.

IF YOUR DRY-TO-DRY SYSTEM IS NEW, SEE (5) BELOW.

(4) EXISTING DRY-TO-DRY SYSTEMS: Identify the amount of perc used per year:

- If your existing dry-to-dry system uses 140 gallons or less of perc per year, SECTION (D) will explain the rules for your facility. TURN TO **SECTION D**.

- If your existing dry-to-dry system uses more than 140 gallons but not more than 2,100 gallons of perc per year, SECTION (E) will explain the rules for your facility. Turn to **SECTION E**.

- If your existing dry-to-dry system uses more than 2,100 gallons of perc per year, SECTION (F) will explain the rules for your facility. Turn to **SECTION F**.

(5) NEW DRY-TO-DRY SYSTEMS: Identify the amount of perc used per year:

- If your new dry-to-dry system uses 140 gallons or less of perc per year, SECTION (G) will explain the rules for your facility. Turn to **SECTION G**.

- If your new dry-to-dry system uses more than 140 gallons but not more than 2,100 gallons of perc per year, SECTION (H) will explain the rules for your facility. Turn to **SECTION H**.

- If your new dry-to-dry system uses more than 2,100 gallons of perc per year, SECTION (I) will explain the rules for your facility. Turn to **SECTION I**.

If you have questions about the information contained in this packet, call the Air Pollution Control Division at (303) 692-3150. In the Grand Junction area, call (970) 249-6337.

SECTION A
EXISTING TRANSFER MACHINES
Small Area Sources

This rule applies to dry cleaners who meet BOTH of the following conditions:

- Dry cleaners whose transfer machines were installed before September 23, 1993.
- Dry cleaners who use 200 gallons or less of perc (perchloroethylene) per year. The amount of perc used is based on adding together the purchasing records for the past 12 months. See the attached Perc Consumption Record.

Requirements (General)

- No new air pollution equipment is required.
- Each time the operator adds or removes clothes from the washer or dryer, the operator must close the door immediately. Also, the door should stay closed except when the operator is adding or removing clothes.
- The operator must run the machine based on the manufacturer specifications and recommendations. This information should have been provided when the operator purchased the machine. If you don't have this information call your perc distributor, dry cleaning machine salesperson, or the manufacturer.
- Before removing any filters from the dry cleaning machine, the operator must drain the filters in their housing or in a sealed container for a 24 hour period.
- The operator must store all perc and perc wastes in sealed containers that do not leak.
- The operator must check for leaks in and around the machine every two weeks while the machine is running. The attached Leak Detection Inspection Log will help the operator with these inspections.
- The operator must repair any leaks found in the inspection within 24 hours. If new parts are needed, they should be ordered within two days of finding the leak, and new parts should be installed within five days of receiving the part.

(Monitoring)

- On the first day of every month, the operator should write down the amount of perc purchased the month before and add together the amount purchased in the past 12 months. This information should be written down in the attached Perc Consumption Record.

(Reports and Records)

- Each operator must keep all receipts, inspection logs, and logs of the perc the operator has bought for 5 years.
- Each operator must send to the State the following reports:
 - An Initial Notification Report due by June 18, 1994.
 - A Compliance Report for Pollution Prevention by June 18, 1994.
 - A Compliance Report for Control Requirements by October 23, 1996.

Copies of the above three reports are attached for your use. If you have not already submitted these, please send the completed forms to the following address:

The Colorado Department of Public Health and Environment
APCD - Small Business Assistance Program
4300 Cherry Creek Drive South
Denver, CO 80222-1530

SECTION B
EXISTING TRANSFER MACHINES
Large Area Sources

This rule applies to dry cleaners who meet BOTH of the following conditions:

- Dry cleaners whose transfer machines were installed before September 23, 1993.
- Dry cleaners who use more than 200 but no more than 1800 gallons of perc (perchloroethylene) per year. The amount of perc used is based on adding together the purchasing records for the past 12 months. See the attached Perc Consumption Record.

Requirements (General)

- The operator must have either a refrigerated condenser on each dry cleaning machine, **OR** use a sniffer (carbon adsorber), **ONLY IF THE SNIFFER WAS INSTALLED BEFORE SEPTEMBER 22, 1993.**
- Each time the operator adds or removes clothes from the machine, the operator must close the door immediately. Also, the door should stay closed except when the operator is adding or removing clothes.
- The operator must run the machine based on the manufacturer specifications and recommendations. This information should have been provided when the operator purchased the machine. If you don't have this information call your perc distributor, dry cleaning machine salesperson, or the manufacturer.
- If the operator installs a refrigerated condenser on the dryer, the operator must make sure that the condenser does not release perc vapor while the machine is operating.
- The operator must make sure that a valve is installed on the refrigerated condenser of the dryer to prevent outside air from coming into the condenser when the door is open.
- If the operator installs a refrigerated condenser on a washer, the operator needs to ensure that the perc emissions are not released to the air until the door is open.
- The operator cannot use the same refrigeration coil for the washer and the dryer. There must be a separate coil for each.
- If the operator has a sniffer, the sniffer should be used at all times the machine is running.
- Before removing any filters from the dry cleaning machine, the operator must drain the filters in their housing or in a sealed container for a 24 hour period.
- The operator must store all perc and perc wastes in sealed containers that do not leak.

- The operator must check for leaks in and around the machine every week while the machine is running. The attached Leak Detection Inspection Log will help the operator with these inspections.
- The operator must repair any leaks found in the inspection within 24 hours. If new parts are needed, they should be ordered within two days of finding the leak, and new parts should be installed within five days of receiving the part.

(Monitoring)

- If the operator uses a refrigerated condenser on the **dryer**, the operator must measure and record the temperature of the exhaust on the outlet of the refrigerated condenser once a week. The temperature must be 45°F or less. If the temperature is greater than 45°F, the operator should make repairs or adjustments and write down all changes. Attached is a Weekly Temperature Log to assist the operator.
- If the operator uses a refrigerated condenser on the **washer**, the operator must measure the temperatures of the perc vapors at the inlet and outlet of the refrigerated condenser once a week. The difference between the temperature of the vapors going into the refrigerated condenser and the temperature of the vapors coming out must be 20°F or greater.
- If the operator uses a sniffer, the amount of perc vapor in the exhaust of the sniffer must be measured once a week. A colorimetric detector tube should be used to measure the perc. The measurement should be taken at the end of the last dry cleaning cycle while the perc is released to the sniffer prior to steaming out (cleaning) of the sniffer. The concentration of perc must be 100 ppm or less. Attached is a Weekly Concentration Log to assist the operator.
- On the first day of every month, the operator should write down the amount of perc purchased the month before and total the amount purchased the past 12 months. This information should be recorded in the attached Perc Consumption Record.

(Reports and Records)

- Each operator must also keep all receipts, inspection logs, and logs of the perc the operator has bought for 5 years.
- Each operator must send to the State the following reports:
 - An Initial Notification Report due by June 18, 1994.
 - A Compliance Report for Pollution Prevention by June 18, 1994.
 - A Compliance Report for Control Requirements by October 23, 1996.

Copies of the above three reports are attached for your use. If you have not already submitted these, please send the completed forms to the following address:

The Colorado Department of Public Health and Environment
 APCD - Small Business Assistance Program
 4300 Cherry Creek Drive South
 Denver, CO 80222-1530

SECTION C
EXISTING TRANSFER MACHINES
Major Sources

This rule applies to dry cleaners who meet BOTH of the following conditions:

- Dry cleaners whose transfer machines were installed before September 23, 1993.
- Dry cleaners who use more than 1800 gallons of perc (perchloroethylene) per year. The amount of perc used is based on adding together the purchasing records for the past 12 months. See the attached Perc Consumption Record.

Requirements

(General)

- The operator must have either a refrigerated condenser on the transfer machine or use a sniffer (carbon adsorber) **ONLY IF THE SNIFFER WAS INSTALLED BEFORE SEPTEMBER 22, 1993.**
- The operator must have this dry cleaning unit in a separate enclosed room. The room needs to have walls that will not allow perc to escape and the room needs to have fans at the doorway so that no perc will be released when doors are opened.
- Each time the operator adds or removes clothes from the machine, the operator must close the door immediately. Also, the door should stay closed except when the operator is adding or removing clothes.
- The operator must run the machine based on the manufacturer specifications and recommendations. This information should have been provided when the operator purchased the machine. If you don't have this information call your perc distributor, dry cleaning machine salesperson, or the manufacturer.
- If the operator installs a refrigerated condenser on the dryer, the operator must make sure that the condenser does not release perc vapor while the machine is operating
- The operator must make sure that a valve is installed to prevent outside air from coming into the condenser when the door is open.
- If the operator installs a refrigerated condenser on a washer, the operator needs to ensure that the perc emissions are not released to the air until the door is open.
- The operator cannot use the same refrigeration coil for the washer and the dryer. There must be a separate coil for each.

- If the operator has a sniffer, the sniffer must be used at all times the machine is running.
- The operator needs to make sure that all of the air from inside the room enclosure is vented through a sniffer. This sniffer is required in addition to any sniffer already used on the machines.
- Before removing any filters from the dry cleaning machine, the operator must drain the filters in their housing or in a sealed container for a 24 hour period.
- The operator must store all perc and perc wastes in sealed containers that do not leak.
- The operator must check for leaks in and around the machine every week while the machine is running. The attached Leak Detection Inspection Log will help the operator with these inspections.
- The operator must repair any leaks found in the inspection within 24 hours. If new parts are needed, they should be ordered within two days of finding the leak, and new parts should be installed within five days of receiving the part.

(Monitoring)

- If the operator uses a refrigerated condenser on the **dryer**, the operator needs to measure and record the temperature of the exhaust on the outlet of the condenser once a week. The temperature must be 45°F or less. If the temperature is greater than 45°F, the operator should make repairs or adjustments and write down all corrections. Attached is Weekly Temperature Log to assist the operator.
- If the operator uses a refrigerated condenser on the **washer**, the operator must monitor the temperature of the perc vapors at the inlet and outlet of refrigerated condenser. The difference between the temperature of the vapors going into the refrigerated condenser and the temperature of the vapors coming out must be 20°F or greater.
- If the operator uses a sniffer, the amount of perc in the exhaust of the sniffer needs to be measured once a week. A colorimetric detector tube should be used to measure the perc. The measurement should be taken at the end of the last dry cleaning cycle while the perc is released to the sniffer prior to steaming out (cleaning) of the sniffer. The concentration of perc must be 100 ppm or less. Attached is a Weekly Concentration Log to assist the operator.
- On the first day of every month, the operator should write down the amount of perc purchased the month before and total the amount purchased in the past 12 months. This information should be recorded in the attached Perc Consumption Record.

(Reports and Records)

- Each operator must also keep all receipts, inspection logs, and logs of the perc the operator has bought for 5 years.

- Each operator must send to the State the following reports:
 - An Initial Notification Report due by June 18, 1994.
 - A Compliance Report for Pollution Prevention by June 18, 1994.
 - A Compliance Report for Control Requirements by October 23, 1996.

Copies of the above three reports are attached for your use. If you have not already submitted these, please send the completed forms to the following address:

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APCD - Small Business Assistance Program
4300 Cherry Creek Drive South
Denver, CO 80222-1530

****** IMPORTANT: ******

- THE OPERATOR MUST APPLY IMMEDIATELY FOR AN "OPERATING PERMIT".
CALL (303) 692-3100.

SECTION D
EXISTING DRY TO DRY MACHINES
Small Area Sources

This rule applies to dry cleaners who meet BOTH of the following conditions:

- Dry cleaners whose dry to dry machines were installed before December 9, 1991.
- Dry cleaners that use 140 gallons or less of perc (perchloroethylene) per year. The amount of perc used is based on adding together the purchasing records for the past 12 months. See the attached Perc Consumption Record.

Requirements (General)

- No new air pollution control equipment is required.
- Each time the operator adds or removes clothes from the dry to dry machine, the operator must close the door immediately. Also, the door should stay closed except when the operator is adding or removing clothes.
- The operator must run the machine based on the manufacturer specifications and recommendations. This information should have been provided when the operator purchased the machine. If you don't have this information call your perc distributor, dry cleaning machine salesperson, or the manufacturer.
- Before removing any filters from the dry cleaning machine, the operator must drain the filters in their housing or in a sealed container for a 24 hour period.
- The operator must store all perc and perc wastes in sealed containers that do not leak.
- The operator must check for leaks in and around the machine every two weeks while the machine is running. The attached Leak Detection Inspection Log will help the operator with these inspections.
- The operator must repair any leaks found in the inspection within 24 hours. If new parts are needed, they should be ordered within two days of finding the leak, and new parts should be installed within five days of receiving the part.

(Monitoring)

- On the first day of every month, the operator should write down the amount of perc purchased the month before and add together the amount purchased in the past 12 months. This information should be written down in the attached Perc Consumption Record.

(Reports and Records)

- Each operator must also keep all receipts, inspection logs, and logs of the perc the operator has bought for 5 years.
- Each operator must send to the State the following reports:
 - An Initial Notification Report due by June 18, 1994.
 - A Compliance Report for Pollution Prevention by June 18, 1994.
 - A Compliance Report for Control Requirements by October 23, 1996.

Copies of the above three reports are attached for your use. If you have not already submitted these, please send the completed forms to the following address:

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SECTION E
EXISTING DRY TO DRY MACHINES
Large Area Sources

This rule applies to dry cleaners who meet BOTH of the following conditions:

- Dry cleaners whose dry-to-dry machines were installed before December 9, 1991.
- Dry cleaners that use more than 140 but no more than 2,100 gallons of perc (perchloroethylene) per year. The amount of perc used is based on adding together the purchasing records for the past 12 months. See the attached Perc Consumption Record.

Requirements
(General)

- The operator must have either a refrigerated condenser on the dry to dry machine or use a sniffer (carbon adsorber) **ONLY IF THE SNIFFER WAS INSTALLED BEFORE SEPTEMBER 22, 1993.**
- Each time the operator adds or removes clothes from the machine, the operator must close the door immediately. Also, the door should stay closed except when the operator is adding or removing clothes.
- The operator must run the machine based on the manufacturer specifications and recommendations. This information should have been provided when the operator purchased the machine. If you don't have this information call your perc distributor, dry cleaning machine salesperson, or the manufacturer.
- If the operator installs a refrigerated condenser on the dryer, the operator must make sure that the condenser does not release perc vapor while the machine is operating.
- The operator must make sure that a valve is installed on the refrigerated condenser of the dryer to prevent outside air from coming into the condenser when the door is open.
- If the operator has a sniffer, the sniffer should be used at all times the machine is running.
- Before removing any filters from the dry cleaning machine, the operator should drain the filters in their housing or in a sealed container for a 24 hour period.
- The operator must store all perc and perc wastes in sealed containers that do not leak.
- The operator must check for leaks in and around the machine every week while the machine is running. The attached Leak Detection Inspection Log will help the operator with these inspections.

- The operator must repair any leaks found in the inspection within 24 hours. If new parts are needed, they should be ordered within two days of finding the leak, and new parts should be installed within five days of receiving the part.

(Monitoring)

- If the operator uses a refrigerated condenser on the dryer, the operator must measure and record the temperature of the exhaust on the outlet of the refrigerated condenser once a week. The temperature must be 45 °F or less. If the temperature is greater than 45 °F, the operator should make repairs or adjustments and write down all changes. Attached is a Weekly Temperature Log to assist the operator.
- If the operator uses a sniffer, the amount of perc vapor in the exhaust of the sniffer needs to be measured once a week. A colorimetric detector tube should be used to measure the perc. The measurement should be taken at the end of the last dry cleaning cycle while the perc is released to the sniffer prior to desorption of the sniffer. The concentration of perc must be 100 ppm or less. Attached is a Weekly Concentration Log to assist the operator.
- On the first day of every month, the operator should write down the amount of perc purchased the month before and total the amount purchased the past 12 months. This information should be recorded in the attached Perc Consumption Record.

(Reports and Records)

- Each operator must also keep all receipts, inspection logs, and logs of the perc the operator has bought for 5 years.
- Each operator must send to the State the following reports:
 - An Initial Notification Report due by June 18, 1994.
 - A Compliance Report for Pollution Prevention by June 18, 1994.
 - A Compliance Report for Control Requirements by October 23, 1996.

Copies of the above three reports are attached for your use. If you have not already submitted these, please send the completed forms to the following address:

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4300 Cherry Creek Drive South
Denver, CO 80222-1530

SECTION F
EXISTING DRY TO DRY MACHINES
Major Sources

This rule applies to dry cleaners who meet BOTH of the following conditions:

- Dry cleaners whose dry-to-dry machines were installed before December 9, 1991.
- Dry cleaners who use more than 2,100 gallons of perc (perchloroethylene) per year. The amount of perc used is based on adding together the purchasing records for the past 12 months. See the attached Perc Consumption Record.

Requirements

(General)

- The operator must have either a refrigerated condenser on the dry to dry machine or use a carbon adsorber (ie. sniffer) ONLY IF THE SNIFFER WAS INSTALLED BEFORE SEPTEMBER 22, 1993.
- The operator must have this dry cleaning unit in a separate enclosed room. The room needs to have walls that will not allow perc to escape and the room needs to have fans at the doorway so that no perc will be released when doors are opened.
- Each time the operator adds or removes clothes from the machine, the operator must close the door immediately. Also, the door should stay closed except when the operator is adding or removing clothes.
- The operator must run the machine based on the manufacturer specifications and recommendations. This information should have been provided when the operator purchased the machine. If you don't have this information call your perc distributor, dry cleaning machine salesperson, or the manufacturer.
- If the operator installs a refrigerated condenser on the dryer, the operator must make sure that the condenser does not release perc vapor while the machine is operating.
- The operator must make sure that a valve is installed to prevent outside air from coming into the condenser when the door is open.
- If the operator has a sniffer, the sniffer must be used at all times the machine is running.
- The operator needs to make sure that all of the air from inside the room enclosure is vented through a sniffer. This sniffer is needed in addition to any sniffer already used on the machines.
- Before removing any filters from the dry cleaning machine, the operator must drain the filters in their housing or in a sealed container for a 24 hour period.

- The operator must store all perc and perc wastes in sealed containers that do not leak.
- The operator must check for leaks in and around the machine every week while the machine is running. The attached Leak Detection Inspection Log will help the operator with these inspections.
- The operator must repair any leaks found in the inspection within 24 hours. If new parts are needed, they should be ordered within two days of finding the leak, and new parts should be installed within five days of receiving the part.

(Monitoring)

- If the operator uses a refrigerated condenser on the dryer, the operator needs to measure and record the temperature of the exhaust on the outlet of the condenser once a week. The temperature must be 45 °F or less. If the temperature is greater than 45 °F, the operator should make repairs or adjustments and write down all corrections. Attached is Weekly Temperature Log to assist the operator.
- If the operator uses a sniffer, the amount of perc in the exhaust of the sniffer needs to be measured once a week. A colorimetric detector tube should be used to measure the perc. The measurement should be taken at the end of the last dry cleaning cycle while the perc is released to the sniffer prior to desorption of the sniffer. The concentration of perc must be 100 ppm or less. Attached is a Weekly Concentration Log to assist the operator.
- On the first day of every month, the operator should write down the amount of perc purchased the month before and total the amount purchased the past 12 months. This information should be recorded in the attached Perc Consumption Record.

(Reports and Records)

- Each operator must also keep all receipts, inspection logs, and logs of the perc the operator has bought for 5 years.
- Each operator must send to the State the following reports:
 - An Initial Notification Report due by June 18, 1994.
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Denver, CO 80222-1530

****** IMPORTANT ******

**THE OPERATOR MUST IMMEDIATELY APPLY FOR AN OPERATING PERMIT
CALL: (303) 692-3100**



SECTION G
NEW DRY TO DRY MACHINES
Small Area Sources

This rule applies to dry cleaners who meet BOTH of the following conditions:

- Dry cleaners whose dry to dry machines were installed on or after December 9, 1991.
- Dry cleaners who use 140 gallons or less of perc (perchloroethylene) per year. The amount of perc used is based on adding together the purchasing records for the past 12 months. See the attached Perc Consumption Record.

Requirements
(General)

- The operator must have a refrigerated condenser on the dry to dry machine.
- Each time the operator adds or removes clothes from the dryer, the operator must close the door immediately. Also, the door should stay closed except when the operator is adding or removing clothes.
- The operator must run the machine based on the manufacturer specifications and recommendations. This information should have been provided when the operator purchased the machine. If you don't have this information call your perc distributor, dry cleaning machine salesperson, or the manufacturer.
- The operator must make sure the refrigerated condenser does not release perc while the machine is operating.
- The operator must make sure that a valve is installed to prevent outside air from coming into the refrigerated condenser when the door is open.
- Before removing any filters from the dry cleaning machine, the operator must drain the filters in their housing or in a sealed container for a 24 hour period.
- The operator must store all perc and perc wastes in sealed containers that do not leak.
- The operator must check for leaks in and around the machine every two weeks while the machine is running. The attached Leak Detection Inspection Log will help the operator with these inspections.
- The operator must repair any leaks found in the inspection within 24 hours. If new parts are needed, they should be ordered within two days of finding the leak, and new parts should be installed within five days of receiving the part.

(Monitoring)

If the operator uses a refrigerated condenser on the dryer, the operator must measure and record the temperature of the exhaust on the outlet of the refrigerated condenser once a week. The temperature must be 45°F or less. If the temperature is greater than 45°F, the operator should make repairs or adjustments and write down all changes. Attached is a Weekly Temperature Log to assist the operator.

- On the first day of every month, the operator should write down the amount of perc purchased the month before and add together the amount purchased in the past 12 months. This information should be written down in the attached Perc Consumption Record.

Each operator must also keep all receipts, inspection logs, and logs of the perc the operator has bought for 5 years.

(Reports and Records)

Each operator must send to the State the following reports:

- An Initial Notification Report due by June 18, 1994.
- A Compliance Report for Pollution Prevention by June 18, 1994.
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SECTION H
NEW DRY TO DRY MACHINES
Large Area Sources

This rule applies to dry cleaners who meet BOTH of the following conditions:

- Dry cleaners whose dry to dry machines were installed on or after December 9, 1991.
- Dry cleaners that use more than 140 but no more than 2,100 gallons of perchloroethylene (Perc) per year. The amount of perc used is based on adding together the purchasing records for the past 12 months. See the attached Perc Consumption Record.

Requirements

(General)

- The operator must have a refrigerated condenser on the dry to dry machine.
- Each time the operator adds or removes clothes from the dryer, the operator must close the door immediately. Also, the door should stay closed except when the operator is adding or removing clothes.
- The operator must run the machine based on the manufacturer specifications and recommendations. This information should have been provided when the operator purchased the machine. If you don't have this information call your perc distributor, dry cleaning machine salesperson, or the manufacturer.
- The operator must make sure the refrigerated condenser does not release perc while the machine is operating.
- The operator must make sure that a valve is installed to prevent outside air from coming into the refrigerated condenser when the door is open.
- Before removing any filters from the dry cleaning machine, the operator must drain the filters in their housing or in a sealed container for a 24 hour period.
- The operator must store all perc and perc wastes in sealed containers that do not leak.
- The operator should check for leaks in and around the machine every week while the machine is running. The attached Leak Detection Inspection Log will help the operator with these inspections.
- The operator must repair any leaks found in the inspection within 24 hours. If new parts are needed, they should be ordered within two days of finding the leak, and new parts should be installed within five days of receiving the part.

(Monitoring)

- If the operator uses a refrigerated condenser on the dryer, the operator must measure and record the temperature of the exhaust on the outlet of the refrigerated condenser once a week. The temperature must be 45°F or less. If the temperature is greater than 45°F, the operator should make repairs or adjustments and write down all changes. Attached is a Weekly Temperature Log to assist the operator.
- On the first day of every month, the operator should write down the amount of perc purchased the month before and add together the amount purchased in the past 12 months. This information should be written down in the attached Perc Consumption Record.

(Reports and Records)

- Each operator must also keep all receipts, inspection logs, and logs of the perc the operator has bought for 5 years.
- Each operator must send to the State the following reports:
 - An Initial Notification Report due by June 18, 1994.
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Denver, CO 80222-1530

NEW DRY TO DRY MACHINES

Major Sources

This rule applies to dry cleaners who meet BOTH of the following conditions:

- Dry cleaners who bought dry to dry machines on or after December 9, 1991.
- Dry cleaners who use more than 2,100 gallons of perc (perchloroethylene) per year. The amount of perc used is based on adding together the purchasing records for the past 12 months. See the attached Perc Consumption Record.

Requirements (General)

- The operator must have either a refrigerated condenser on the dry to dry machine or use a carbon adsorber (ie. sniffer) immediately before the door of the machine is opened or as the machine door is opened.
- Each time the operator adds or removes clothes from the machine, the operator must close the door immediately. Also, the door should stay closed except when the operator is adding or removing clothes.
- The operator must run the machine based on the manufacturer specifications and recommendations. This information should have been provided when the operator purchased the machine. If you don't have this information call your perc distributor, dry cleaning machine salesperson, or the manufacturer.
- If the operator installs a refrigerated condenser on the dryer, the operator must make sure that the condenser does not release perc vapor while the machine is operating.
- If the operator uses a sniffer, the sniffer must be used at all times the machine is running.
- Before removing any filters from the dry cleaning machine, the operator must drain the filters as they sit in the machine or in a sealed container for a 24 hour period.
- The operator must store all perc and perc wastes in sealed containers that do not leak.
- The operator must check for leaks in and around the machine every week while the machine is running. The attached Leak Detection Inspection Log will help the operator with these inspections.
- The operator must repair any leaks found in the inspection within 24 hours. If new parts are needed, they should be ordered within two days of finding the leak, and new parts should be installed within five days of receiving the part.

- If the operator uses a refrigerated condenser on the dryer, the operator needs to measure and record the temperature of the exhaust on the outlet of the condenser once a week. The temperature must be 45°F or less. If the temperature is greater than 45°F, the operator should make repairs or adjustments and write down all corrections. Attached is Weekly Temperature Log to assist the operator.
- If the operator uses a sniffer, the amount of perc in the exhaust of the sniffer needs to be measured once a week. A colorimetric detector tube should be used to measure the perc. The measurement should be taken at the end of the last dry cleaning cycle while the perc is released to the sniffer prior to steaming out (cleaning) of the sniffer. The concentration of perc must be 100 ppm or less. Attached is a Weekly Concentration Log to assist you.
- If the sniffer is used before the door of the machine is opened, the operator should measure the perc with a colorimetric tube at the end of the dry clean cycle on a weekly basis. The perc vapor must be equal to or less than 300 ppm.
- On the first day of every month, the operator should write down the amount of perc purchased the month before and total the amount purchased the past 12 months. This information should be recorded in the attached Perc Consumption Record.

(Reports and Records)

- Each operator must also keep all receipts, inspection logs, and logs of the perc the operator has bought for 5 years.
- Each operator must send to the State the following reports:
 - An Initial Notification Report due by June 18, 1994.
 - A Compliance Report for Pollution Prevention by June 18, 1994.
 - A Compliance Report for Control Requirements by October 23, 1996.

Copies of the above three reports are attached for your use. If you have not already submitted these, please send the completed forms to the following address:

The Colorado Department of Public Health and Environment
APCD - Small Business Assistance Program
4300 Cherry Creek Drive South
Denver, CO 80222-1530

**IMPORTANT: Operator must IMMEDIATELY apply for an operating permit.
Call (303) 692-3100.**

ATTACHMENTS

RECORDS:

- PERC CONSUMPTION RECORD
 - LEAK DETECTION INSPECTION LOG
 - REFRIGERATED CONDENSER WEEKLY TEMPERATURE LOG
 - CARBON ADSORBER WEEKLY PERC CONCENTRATION LOG
 - SUPPLEMENTAL CARBON ADSORBER WEEKLY PERC CONCENTRATION LOG
-

REPORTS:

- INITIAL NOTIFICATION REPORT
- COMPLIANCE REPORT FOR POLLUTION PREVENTION
- COMPLIANCE REPORT FOR CONTROL REQUIREMENTS

LEAK DETECTION INSPECTION LOG

DATE _____

MACHINE NO. _____

INSPECTOR _____

Inspection done by SIGHT SMELL FEEL MONITORING INSTRUMENT
circle one

Inspect the following items for leaks.

		<u>SIGNS OF LEAKING?</u>	
		YES	NO
1.	Hose and pipe connections, fittings, couplings, valves	YES	NO
2.	Door gasket and seating	YES	NO
3.	Pump	YES	NO
4.	Solvent tank and containers	YES	NO
5.	Water separator	YES	NO
6.	Muck cooker	YES	NO
7.	Sill	YES	NO
8.	Exhaust damper	YES	NO
9.	Diverter valve	YES	NO
10.	Filter gasket and seating	YES	NO
11.	Cartridge filter housings	YES	NO

INITIAL NOTIFICATION REPORT

1. Print or type the following for each separately located dry cleaning plant (facility). The owner of more than one plant must fill out a separate form for each plant.

Owner/operator _____

Company Name _____

Mailing Address _____

City _____ State _____ Zip _____

Plant Address (If Different Than Mailing Address)

Street Address _____

City _____ State _____

Phone Number _____

2. Check the box below if:

your dry cleaner is a pick-up store.

your dry cleaning plant has only coin-operated dry cleaning machines that are operated by the customers.

If you checked either box above, you can STOP HERE and return the form to the address given in the accompanying letter.

3. Write in the total volume of perchloroethylene (perc) purchased for ALL of the machines at the dry cleaning plant over the past 12 months:

_____ gallons

NOTE: If perchloroethylene purchase records have not been kept at the plant, the volume may be estimated for this initial report.

Method of determining gallons (circle one):

actual estimated

4. Next to each machine type listed below, write the number of machines of that type located at your plant:

___ Dry-to-Dry

___ Transfer

5. Provide the following information for EACH MACHINE at your plant. If you have more than 4 machines at your plant, make additional copies of this page.

	Machine 1	Machine 2	Machine 3	Machine 4
Machine Type (Circle One)	Dry-to-Dry or Transfer	Dry-to-Dry or Transfer	Dry-to-Dry or Transfer	Dry-to-Dry or Transfer
Date Machine Was Installed				
Control Device (Use WORKSHEET on Pages 5 & 6 to Determine Required Control)				
Date Control Device was Installed or Is Planned to Be Installed				

6. The following pollution prevention practices must be performed at your plant starting on 12/20/93. These practices are listed on an attached sheet that can be posted next to your machine:

- Conduct a weekly leak detection and repair program to inspect all dry cleaning equipment for leaks that are obvious from sight, smell, or touch. NOTE: This program is required every other week if you wrote NO CONTROL REQUIRED in the shaded box in Question 5.
- Repair leaks within 24 hours after they are found, or order repair parts within 2 working days after detecting a leak that needs repair parts. Install the repair parts by 5 working days after they are received.
- Keep a log of the weekly (or biweekly) results of the leak detection and repair program.
- Follow good housekeeping practices, which include keeping all perc and wastes containing perc in covered containers with no leaks, draining cartridge filters in closed containers, and keeping machine doors shut when clothing is not being transferred.
- Operate and maintain all dry cleaning equipment according to manufacturers' instructions.

WORKSHEET

A. To find out if control is required:

Check all boxes that apply:

- I reported less than 140 gallons in Question 3 (page 1).
- I reported less than 200 gallons in Question 3 (page 1) AND reported only transfer machines in Question 4 (page 1).

If you checked either box above and all your machines were installed before 12/9/91, you can STOP HERE. Write NO CONTROL REQUIRED in the shaded box on page 2 for each machine at your plant that was installed before 12/9/91. For those machines installed on or after 12/9/91, continue with the rest of the worksheet.

YOU ARE FINISHED WITH THE WORKSHEET. GO TO QUESTION 6 (page 2).

If you did not check a box above, go to Part B below.

B. Control is required. Fill out Part B for EACH MACHINE at your plant.

Check the appropriate box:

- Machine was installed BEFORE 12/9/91.

If you checked this box, your required control is a refrigerated condenser or a carbon adsorber that was installed before 9/22/93. Write REFRIGERATED CONDENSER or CARBON ADSORBER in the shaded box below the machine on page 2.

Control must be installed by 9/22/96.

- Machine was installed ON OR AFTER 9/22/93.

If you checked this box, your required control is a dry-to-dry machine with refrigerated condenser.

Write DRY-TO-DRY MACHINE WITH REFRIGERATED CONDENSER in the shaded box below the machine on page 2. NOTE: NO NEW OR USED TRANSFER MACHINES CAN BE INSTALLED AFTER 9/22/93.

Control must be installed when machine is installed.

- Machine was installed ON OR AFTER 12/9/91 AND BEFORE 9/22/93.

If you checked this box, your required control is a dry-to-dry machine with refrigerated condenser. Write DRY-TO-DRY MACHINE WITH REFRIGERATED CONDENSER in the shaded box below the machine on page 2.

If the machine you have is NOT a dry-to-dry machine with a refrigerated condenser, the machine must use either a refrigerated condenser or carbon adsorber from 9/22/93 until 9/22/96. On or after 9/22/96, any carbon adsorbers on dry-to-dry machines must be replaced with a refrigerated condenser. If the machine is a transfer machine with a carbon adsorber or a refrigerated condenser, you may keep this installation until 9/22/96. If you plan to keep a dry-to-dry machine with a carbon adsorber or a transfer machine with either a refrigerated condenser or carbon adsorber until 9/22/96, also write this information in the shaded box.

7. The following records must be kept at your plant:
- A log of the results of the leak detection and repair program.
 - A log of the amount of perc purchased for the past 12 months, calculated each month.
 - The operation and maintenance manuals for all dry cleaning equipment at the plant.
8. If a room enclosure is installed on a transfer machine as stated in Question 4, the following information about the room enclosure must be attached to this report.
- Description of the materials that the room enclosure is constructed of to show that it is impermeable to perchloroethylene, and
 - Explanation of how the room enclosure is operated to maintain a negative pressure at all times while the transfer machine is operating.
 - Explanation of how the room enclosure exhausts into a carbon adsorber
9. Print or type the name and title of the Responsible Official for the dry cleaning plant:

Name	Title
------	-------

A Responsible Official can be:

- The president, vice president, secretary, or treasurer of the company that owns the dry cleaning plant,
- An owner of the dry cleaning plant,
- The manager of the dry cleaning plant, or
- A government official if the dry cleaning plant is owned by the Federal, State, City, or County government.
- A ranking military officer if the dry cleaning plant is located at a military base.

The Responsible Official must certify below that all of the information presented in this initial report is accurate and true.

I CERTIFY THE INFORMATION CONTAINED IN THIS REPORT TO BE ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE.

(Signature of Responsible Official)

C. To find out if additional control is required:

Check all boxes that apply:

- I reported 1,800 gallons or less in Question 3 (page 1).
- I reported 2,100 gallons or less in Question 3 (page 1) AND I reported only dry-to-dry machines in Question 4 (page 1).

If you checked either box above, you can STOP HERE. No additional controls are required.

YOU ARE FINISHED WITH THE WORKSHEET. RETURN TO QUESTION 5 (page 2) and write in the dates the controls were or will be installed.

If you did not check a box above, go to Part D below.

D. If additional control is required, fill out Part D for EACH machine at your plant:

Check a box below, if it applies:

- Machine is a dry-to-dry machine that was installed ON or AFTER 12/9/91.

If you checked this box, you are also required to install a supplemental carbon adsorber.

Write SUPPLEMENTAL CARBON ADSORBER in the shaded box below the machine on page 2.

- Machine is a transfer machine.

If you checked this box, you are also required to install a room enclosure. Write ROOM ENCLOSURE in the shaded box below the machine on page 2.

YOU ARE FINISHED WITH THE WORKSHEET. RETURN TO QUESTION 5 and write in the dates all controls were or will be installed (page 2).

Send Form to:

The Colorado Department of
Public Health and Environment
APCD - SBAP
4300 Cherry Creek Drive South
Denver, CO 80222-1530



COMPLIANCE REPORT FOR POLLUTION PREVENTION

1. Print or type the following for each separately located dry cleaning plant (facility). The owner of more than one plant must fill out a separate form for each plant.

Owner/operator _____

Company Name _____

Mailing Address _____

City _____ State _____ Zip _____

Plant Address (If Different Than Mailing Address)

Street Address _____

City _____ State _____

Phone Number _____

2. Write in the total volume of perchloroethylene (perc) purchased for ALL of the machines at the dry cleaning plant over the past 12 months (based on actual purchase receipts):

_____ gallons

3. The following pollution prevention practices must be performed at your plant starting on 12/20/93.
- Conduct a weekly leak detection and repair program to inspect all dry cleaning equipment for leaks that are obvious from sight, smell, or touch. NOTE: This program is required only every other week (biweekly) if you reported NO CONTROLS REQUIRED in the INITIAL NOTIFICATION REPORT.
 - Repair leaks within 24 hours after they are found, or order repair parts within 2 working days after detecting a leak that needs repair parts. Install the repair parts by 5 working days after they are received.
 - Keep a log of the weekly (or biweekly) results of the leak detection and repair program.
 - Follow good housekeeping practices, which include keeping all perc and wastes containing perc in covered containers with no leaks, draining cartridge filters in closed containers, and keeping machine doors shut when clothing is not being transferred.
 - Operate and maintain all dry cleaning equipment according to manufacturers' instructions.
4. The following records must be kept at your plant:
- A log of the results of the leak detection and repair program.
 - A log of the amount of perc purchased for the past 12 months, calculated each month.

- The operation and maintenance manuals for all dry cleaning equipment at the plant.

5. Print or type the name and title of the Responsible Official for the dry cleaning plant:

Name	Title
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A Responsible Official can be:

- The president, vice president, secretary, or treasurer of the company that owns the dry cleaning plant,
- An owner of the dry cleaning plant,
- The manager of the dry cleaning plant, or
- A government official if the dry cleaning plant is owned by the Federal, State, City, or County government, or
- A ranking military officer if the dry cleaning plant is located at a military base.

The Responsible Official must certify the statement below.

I CERTIFY THE INFORMATION CONTAINED IN THIS REPORT TO BE ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE AND THAT THIS PLANT IS IN COMPLIANCE WITH THE POLLUTION PREVENTION PRACTICES LISTED IN THIS REPORT.

(Signature of Responsible Official)

Send Form to:

**The Colorado Department of
Public Health and Environment
APCD - SBAP
4300 Cherry Creek Drive South
Denver, CO 80222-1530**

COMPLIANCE REPORT FOR CONTROL REQUIREMENTS

1. Print or type the following for each separately located dry cleaning plant (facility). The owner of more than one plant must fill out a separate form for each plant.

Owner/operator _____

Company Name _____

Mailing Address _____

City _____ State _____ Zip _____

Plant Address (If Different Than Mailing Address)

Street Address _____

City _____ State _____

Phone Number _____

2. Write in the total volume of perchloroethylene (perc) purchased for the dry cleaning plant over the last 12 months (based on actual purchase receipts):
- _____ gallons

3. Fill out the table below for each machine at your plant. Use the WORKSHEET on pages 5 and 6 of the INITIAL NOTIFICATION REPORT to determine required controls. A copy of the INITIAL NOTIFICATION REPORT is attached.

Machine Type (Dry-to-Dry or Transfer)	Date Machine Purchased	Required Control	Date Control Installed
1.			
2.			
3.			
4.			
5.			
6.			
7.			

4. If you listed a required control in Question 3 (page 1) for any machine at your plant, you must monitor your control.

To find out what type of monitoring is required,

Check all boxes that apply:

- I use a refrigerated condenser on a dry-to-dry machine to meet the required control.

If you checked this box, you are required to perform a weekly monitoring test to show that the temperature on the outlet side of the refrigerated condenser is less than or equal to 45 degrees Fahrenheit.

- I use a refrigerated condenser on a transfer machine to meet the required control.

If you checked this box, you are required to perform a weekly monitoring test to show that the temperature on the outlet side of the refrigerated condenser on the transfer dryer is less than or equal to 45 degrees Fahrenheit AND that the difference between the inlet and the outlet temperature of the refrigerated condenser on the transfer washer is greater than or equal to 20 degrees Fahrenheit.

- I use a carbon adsorber on a dry-to-dry or a transfer machine to meet the required control, OR

- I use a supplemental carbon adsorber on a dry-to-dry machine and the exhaust passes through the carbon adsorber IMMEDIATELY UPON door opening.

If you checked either of the two boxes above, you are required to perform a weekly monitoring test with a colorimetric detector tube to show that the concentration of perc in the exhaust from the carbon adsorber is not over 100 parts per million.

- I use a supplemental carbon adsorber on a dry-to-dry machine and the exhaust passes through the carbon adsorber BEFORE the machine door is opened.

If you checked this box, you are required to perform a weekly monitoring test with a colorimetric detector tube to show that the concentration of perc inside the dry cleaning machine drum at the end of the drying cycle is not over 300 parts per million.

- I use a room enclosure on a transfer machine.

If you checked this box, you are required to vent all air from inside the room enclosure through a carbon adsorber. The room enclosure must be constructed of materials impermeable to perc, must be designed and operated to maintain a negative pressure at all times while the transfer machine is operating, and must exhaust to a carbon adsorber.

5. Print or type the name and title of the Responsible Official for the dry cleaning facility:

Name

Title

Examples of Responsible Officials:

- The president, vice president, secretary, or treasurer of the company that owns the dry cleaning facility,
- An owner of the dry cleaning facility,
- The manager of the dry cleaning facility, or
- A government official if the dry cleaning facility is owned by the Federal, State, City, or County government,
- A ranking military officer if located at a military base.

The Responsible Official must certify below that all of the information presented in this initial report is accurate and true.

I CERTIFY THE INFORMATION CONTAINED IN THIS REPORT TO BE ACCURATE AND TRUE TO THE BEST OF MY KNOWLEDGE AND THAT THIS PLANT IS IN COMPLIANCE WITH ALL APPLICABLE CONTROL DEVICE AND MONITORING REQUIREMENTS LISTED IN THIS REPORT.

(Signature of Responsible Official)

Send Form to:

**The Colorado Department of
Public Health and Environment
APCD - SBAP
4300 Cherry Creek Drive South
Denver, CO 80222-1530**

