

ERMS Seasonal Emissions Report Instructions

GENERAL INFORMATION

Section 205.300 of the ERMS rule specifies that for each seasonal allotment period after the effective date of the rule each participant shall submit a seasonal emission report to the Agency as a component of its Annual Emission Report.

Since allotments have been issued to sources, emissions reported on this report will be used to perform reconciliation. Please compare the emissions you have reported to the number of ATUs you have been issued. You have until December 31st to reconcile your account.

The seasonal report is not required to be submitted on these forms. If you do submit the data in an alternate method, make sure that the data you provide is the data that is asked for on these forms and is in the same arrangement.

ACRONYMS

ATU - Allotment Trading Unit
CAAPP - Clean Air Act Permit Program
ERMS - Emissions Reduction Market System
HAP - Hazardous Air Pollutant
MACT - Maximum Achievable Control
Technology
VOM - Volatile Organic Material

REPORTING DEADLINE

- October 31 for sources that generate VOM emissions from less than 10 emission units.
- November 30 for sources that generate VOM emissions from 10 or more emission units.

WHERE TO SEND COMPLETED REPORT

Send two copies to:

Illinois Environmental Protection Agency
Bureau of Air
Air Quality Planning Section #39
1021 North Grand Avenue East
P. O. Box 19276
Springfield, IL 62794-9276

Attention: Seasonal Emission Report

ROUNDING INSTRUCTIONS

Supplemental forms - The Actual VOM Emissions for the Season field (or VOM Emissions field) is rounded to the nearest pound. Specifically, if the decimal portion of the emissions you calculate is 0.5 or less, round down to the next whole number. For example, 123.4 rounds to 123. If the decimal portion of the emissions you calculate is greater than or equal to 0.5, round up to the next whole number. For example, 123.5 (or 123.7) rounds to 124. This rounding is performed on each line for the following forms:

- 100A-ERMS - Total Actual Seasonal VOM Emissions
- 100B-ERMS - Emission Units Permitted Prior to January 1, 1998, Without Three Years of Data
- 100C-ERMS - Emissions Attributable to Major Modifications
- 100D-ERMS - Emissions From Approved Emergencies
- 100E-ERMS - Emissions Due to Variance, Consent Order or CAAPP Compliance Schedule
- 100F-ERMS - Hazardous Air Pollutant (HAP) Seasonal Emissions

Emissions Summary Page Lines 1 through 5

- These values are simply transferred from the totals field on the supplemental forms so rounding should have already taken place.

Emissions Summary Page Line 6 - The result of this calculation should be rounded to the nearest whole number using the methods described in the supplemental forms section above.

Emissions Summary Page Line 7 - This value should not be rounded. Rounding will take place on Line 8. Two decimal places will be sufficient to accomplish rounding in Line 8.

Emissions Summary Page Line 8 - If the value in Line 7 includes decimal places that are not zero (that is, greater than or equal to 0.01), round up to the next whole number. For example, if the value in Line 7 is 123.01 (or 123.10 or 123.9), the value entered in Line 8 is 124. If the value in Line 7 ends with zeros in the decimal places, do not round. For example, if

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the value in Line 7 is 123.00, the value entered in Line 8 is 123.

EMISSIONS SUMMARY PAGE

This page is intended to be a summary of the data contained on supplemental forms of the seasonal report. Values for Lines 1, 2, 3, 4 and 5 will be transferred from the total field from the appropriate pages of the report.

For Lines 6, 7 and 8, perform the calculation as described on the form. Round the value as described in the Rounding Instructions section above. Sources that have requested a 15 ton per season limit or that have indicated they will reduce emissions by 18% are not required to complete Lines 7 and 8.

Line 9 is intended to indicate whether there were reportable HAP emissions or not. Check here if you have checked the Yes box for at least one question or have provided emissions for HAPs.

TOTAL ACTUAL SEASONAL VOM EMISSIONS

For each emission unit, including emission units that are excluded from the 12% reduction, at your source that emits VOM, provide the total VOM emissions that occurred in the period May 1st through September 30th. Emissions reported on this page include emissions from emergencies, emissions units not included in the baseline, emissions due to variances (and the like) and major modifications. These emissions will be dealt with on subsequent pages of the report.

When identifying emission units, identify/group the emission units as stated in your CAAPP Permit. If your source has not been issued a CAAPP permit at this time, identify/group the emission units as stated in your application for baseline determination.

Provide the actual season production or material usage for the period May 1st through September 30th for each emission unit. The specific information to be provided will most likely be the data you indicated in your application for baseline determination. Specific data to be provided may be included in your CAAPP

permit. Please make sure to include appropriate units. For example, 35,000 gallons of coating, 10 tons of product.

The method of calculation is the method you used to calculate seasonal emissions for the emission unit. If you calculated emissions as stated in your CAAPP permit, all you need to provide is the condition number from your CAAPP permit.

If you calculate emissions in a manner other than stated in your CAAPP permit, indicate this in the method column and provide an attachment describing your calculation method.

Provide the actual VOM emissions for the period May 1st through September 30th for each emission unit. This value should be rounded as described in the Rounding Instructions section.

Once you have completed this information for all emission units, sum the VOM emissions column and enter this value in the Total field. Transfer this total to Line 1 of the first page. Use additional pages if necessary and number the pages.

EMISSION UNITS PERMITTED PRIOR TO JANUARY 1, 1998, WITHOUT THREE YEARS OF DATA

Provide the VOM emissions from emission units that were issued a permit prior to January 1, 1998, that do not have three years of operating data. In cases where the past season is the third season for which data is available, the emission unit should still be listed on this page.

Emissions provided must be for the period May 1st through September 30th.

All data fields follow the same instructions as described in the Total Actual Seasonal VOM Emissions section above. Transfer the total from this page to Line 2 of the first page.

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EMISSIONS ATTRIBUTABLE TO MAJOR MODIFICATIONS

Provide the VOM emissions from emission units that were classified as being or having major modifications. The VOM emissions provided are to be the emissions due to the major modification. For example, if a completely new emission unit was constructed that was a major modification, all emissions would be provided on this form. If an existing unit was included in a major modification, the emissions reported on this form would be the difference before and after the major modification (new emissions minus existing emissions).

Emissions provided must be for the period May 1st through September 30th.

All data fields follow the same instructions as described in the Total Actual Seasonal VOM Emissions section above. Transfer the total from this page to Line 3 of the first page.

EMISSIONS FROM APPROVED EMERGENCIES

List the approved emergencies (date, description) your source had and the VOM emissions that were associated with each emergency. Provide additional information as necessary as an attachment.

Emissions provided must be for the period May 1st through September 30th.

All data fields follow the same instructions as described in the Total Actual Seasonal VOM Emissions section above. Transfer the total from this page to Line 4 of the first page.

EMISSIONS DUE TO VARIANCE, CONSENT ORDER OR CAAPP COMPLIANCE SCHEDULE

List the emissions from emission units at your source that were subject to a variance, consent order or CAAPP compliance schedule. Where applicable, provide the variance, consent order or CAAPP permit number in the column provided. Provide any additional information as necessary as an attachment.

When calculating VOM emissions for this section, provide only the emissions that were above the applicable limit of the emission unit. Do not provide the total amount allowed by your variance, consent order or CAAPP compliance schedule unless you actually emitted that amount.

For example, let's say the rule applicable to the single emission unit at your source requires a control efficiency of 90% and you have a variance that allows your control efficiency to be 80%.

Also assume:

- Seasonal emissions at 90% control efficiency are 50,000 pounds
- Seasonal emissions at 85% control efficiency are 75,000 pounds
- Seasonal emissions at 80% control efficiency are 100,000 pounds

If you operate the control device at an 80% control efficiency, the number you report on this form would be 50,000 pounds (100,000 - 50,000).

If you operate the control device at an 85% control efficiency, the number you report on this form would be 25,000 pounds (75,000 - 50,000).

The example given above is a simple example meant to illustrate what emissions are supplied on this form. A true calculation will most likely be much more involved. Check your variance, consent order and/or CAAPP permit on specific instructions on how to calculate this value.

Transfer the total from this page to Line 5 of the first page.

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Hazardous Air Pollutant (HAP) Seasonal Emissions

Please check the appropriate box in response to each question. Then, for each HAP that is also a VOM, report the seasonal emissions for those HAPs that meet the following criteria:

- The emissions were subject to a promulgated MACT regulation
- The source is required to submit data for TRI and the pollutant meets the reporting threshold for TRI
- The source is major for HAPs (either by 10 tons/year for an individual HAP or by the combination of HAPs over 25 tons/year)

Examples:

A source has one emission point and it emits HAPs A and B. If pollutant A is regulated by MACT and pollutant B is not, report only pollutant A.

A source emits many HAPs that are not subject to a MACT or not required to be reported to TRI.

- If the sum of those emissions is less than 25 tons/year and the emissions of each individual HAP is less than 10 tons/year, nothing needs to be reported.
- If the sum of those emissions is less than 25 tons/year and some pollutant's emissions are greater than 10 tons/year, report only the pollutants emitted in an amount greater than 10 tons/year.
- If the sum of those emissions are greater than 25 tons/year, report all pollutants.

Remember, the criteria is cumulative. If pollutant A is regulated by MACT and pollutant B is emitted in an amount greater than 10 tons/year, both pollutant A and B are reported.

The codes to use for reporting HAP emissions follow.

QUESTIONS?

Contact the Compliance and Systems Management Section at 217-782-5811 and ask to talk to someone about the seasonal emissions report for ERMS.

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Pollutant Codes to be Used for Reporting HAPs on 100F-ERMS

| | |
|----------|-------------------------------------|
| 79005 | 1,1,2-Trichloroethane |
| 79345 | 1,1,2,2-Tetrachloroethane |
| 75343 | 1,1-Dichloroethane |
| 57147 | 1,1-Dimethylhydrazine |
| 120821 | 1,2,4-Trichlorobenzene |
| 96128 | 1,2-Dibromo-3-chloropropane |
| 107062 | 1,2-Dichloroethane |
| 78875 | 1,2-Dichloropropane |
| 122667 | 1,2-Diphenylhydrazine |
| 106887 | 1,2-Epoxybutane |
| 75558 | 1,2-Propylenimine |
| 106990 | 1,3-Butadiene |
| 542756 | 1,3-Dichloropropene |
| 1120714 | 1,3-Propane sultone |
| 106467 | 1,4-Dichlorobenzene |
| 123911 | 1,4-Dioxane |
| 540841 | 2,2,4-Trimethylpentane |
| 2378TCDD | 2,3,7,8-Tetrachlorodibenzo-p-dioxin |
| 95954 | 2,4,5-Trichlorophenol |
| 88062 | 2,4,6-Trichlorophenol |
| 94757 | 2,4-D, Salts and Esters |
| 95807 | 2,4-Diamino Toluene |
| 51285 | 2,4-Dinitrophenol |
| 121142 | 2,4-Dinitrotoluene |
| TDI | 2,4-Toluene diisocyanate |
| 53963 | 2-Acetylaminofluorine |
| 532274 | 2-Chloroacetophenone |
| 79469 | 2-Nitropropane |
| 91941 | 3,3'-Dichlorobenzidine |
| 119904 | 3,3'-Dimethoxybenzidine |
| 119937 | 3,3'-Dimethylbenzidine |
| 60117 | 4-Dimethyl aminobenzene |
| 101779 | 4,4-Methylenedianiline |
| 101144 | 4,4-Methylene bis(2-chloroaniline) |
| MDI | 4,4'-Methylenediphenyl diisocyanate |
| 534521 | 4,6-Dinitro-o-cresol and Salts |
| 92671 | 4-Aminobiphenyl |
| 92933 | 4-Nitrobiphenyl |
| 100027 | 4-Nitrophenol |
| 75070 | Acetaldehyde |
| 60355 | Acetamide |
| 75058 | Acetonitrile |
| 98862 | Acetophenone |
| ACROLEIN | Acrolein |
| 79061 | Acrylamide |
| 79107 | Acrylic acid |
| 107131 | Acrylonitrile |
| 107051 | Allyl chloride |
| ANILINE | Aniline |
| 90040 | Anisidine (o-isomer) |
| BENZENE | Benzene |
| 92875 | Benzidine |
| 98077 | Benzotrichloride |
| 100447 | Benzyl chloride |

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Pollutant Codes to be Used for Reporting HAPs on 100F-ERMS (con't)

| | |
|-----------|--------------------------------------|
| 57578 | beta-Propiolactone |
| BIPHENYL | Biphenyl |
| 117817 | bis(2-ethylhexyl) phthalate (DEHP) |
| 542881 | bis(chloromethyl)ether |
| 75252 | Bromoform |
| 74839 | Bromomethane |
| CAPTAN | Captan |
| CARBARYL | Carbaryl |
| CS2 | Carbon disulfide |
| CCL4 | Carbon tetrachloride |
| 463581 | Carbonyl Sulfide |
| 120809 | Catechol |
| CHLORDANE | Chlordane |
| 79118 | Chloroacetic acid |
| 133904 | Chloramben |
| 108907 | Chlorobenzene |
| 510156 | Chlorobenzilate |
| 75003 | Chloroethane |
| CCL3 | Chloroform |
| 74873 | Chloromethane |
| 107302 | Chloromethyl methyl ether |
| 126998 | Chloroprene |
| 108394 | Cresol and Cresylic acid (m- isomer) |
| 95487 | Cresol and Cresylic acid (o- isomer) |
| 106445 | Cresol and Cresylic acid (p- isomer) |
| 1319773 | Cresol and Cresylic acid mixtures |
| CUMENE | Cumene |
| DDE | DDE |
| 334883 | Diazomethane |
| DBF | Dibenzofurans |
| 106934 | Dibromoethane |
| DBP | Dibutylphthalate |
| 111444 | Dichloroethyl ether |
| 62737 | Dichlorvos |
| 111422 | Diethanolamine |
| 64675 | Diethyl sulfate |
| 79447 | Dimethyl carbamoyl chloride |
| 131113 | Dimethyl phthalate |
| 77781 | Dimethyl sulfate |
| 106898 | Epichlorohydrin |
| 140885 | Ethyl acrylate |
| 51796 | Ethyl carbamate (Urethane) |
| ETBZ | Ethylbenzene |
| 107211 | Ethylene glycol |
| 151564 | Ethyleneimine |
| ETO | Ethylene oxide |
| 96457 | Ethylene thiourea |
| FORM | Formaldehyde |
| GLYET | Glycol ethers |
| 118741 | Hexachlorobenzene |
| 87683 | Hexachlorobutadiene |
| 77474 | Hexachlorocyclopentadiene |
| 67721 | Hexachloroethane |

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Pollutant Codes to be Used for Reporting HAPs on 100F-ERMS (con't)

| | |
|-----------|--|
| 822060 | Hexamethylene-1,6-diisocyanate |
| 680319 | Hexamethylphosphoramide |
| HEXANE | Hexane |
| 302012 | Hydrazine |
| 123319 | Hydroquinone |
| 74884 | Iodomethane |
| 78591 | Isophorone |
| 108316 | Maleic anhydride |
| MEOH | Methanol |
| MEK | Methyl ethyl ketone (2-Butanone) |
| 60344 | Methyl hydrazine |
| MIBK | Methyl isobutyl ketone |
| 624839 | Methyl isocyanate |
| 80626 | Methyl methacrylate |
| MTBE | Methyl tert-butyl ether |
| 121697 | N,N-Dimethylaniline |
| 68122 | N,N-Dimethylformamide |
| 684935 | N-Nitroso-N-methylurea |
| 62759 | N-Nitrosodimethylamine |
| 59892 | N-Nitrosomorpholine |
| 91203 | Naphthalene |
| 98953 | Nitrobenzene |
| 106503 | p-Phenylenediamine |
| PARATHION | Parathion |
| PHENOL | Phenol |
| PHOSGENE | Phosgene |
| 7803512 | Phosphine |
| 85449 | Phthalic anhydride |
| PCB | Polychlorinated biphenyls (Aroclors) |
| 123386 | Propionaldehyde |
| 114261 | Propoxur (Baygon) |
| PO | Propylene oxide |
| QUINOLINE | Quinoline |
| QUINONE | Quinone |
| STYRENE | Styrene |
| 96093 | Styrene oxide |
| TOLUENE | Toluene |
| 95534 | Toluidene (o- isomer) |
| TOXAPHENE | Toxaphene |
| TCE | Trichloroethylene |
| 121448 | Triethylamine |
| 1582098 | Trifluralin |
| 108054 | Vinyl acetate |
| 593602 | Vinyl bromide |
| VC | Vinyl chloride |
| 75354 | Vinylidene chloride (1,1-Dichloroethylene) |
| XYLENE-M | Xylene (m- isomer) |
| XYLENE-O | Xylene (o- isomer) |
| XYLENE-P | Xylene (p- isomer) |
| XYLENE | Xylene (mixed) |