

# MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY

## INTEROFFICE COMMUNICATION

July 5, 2001

TO: Jerry Avery, Field Operations Manager  
All District Supervisors

FROM: Paul Collins, Supervisor, Operating Program Unit

SUBJECT: Rule 212 Support Tables

Rule 212 proved to be a difficult rule for both staff and the regulated community to interpret. The concept behind the rule is fairly simple - information to be included in an administratively complete renewable operating permit (ROP) application should focus on the processes and pollutants for which applicable requirements exist. Processes and operations which are not regulated through permits or administrative rules (even though they may generate air pollutants) need not be included in an administratively complete application.

Rule 212(2) identifies the activities that do not need to be included in an administratively complete ROP application. Rules 212(3) and 212(4) specify which processes and process equipment need not be included in, or need only be listed in, an administratively complete application for an ROP, unless the process or process equipment is subject to applicable requirements that include a process-specific emission limitation or standard.

The attached three tables are intended to provide guidance to staff regarding applicable requirements that MAY apply to processes or process equipment that are exempt from the requirement to obtain a permit to install. The processes and process equipment listed in the Rule 212(3) table generally do not have a size or throughput restriction associated with the exemption, and therefore do not need to be included in an ROP application. Processes and process equipment included in the Rule 212(4) table have some type of size or throughput restrictions, and at a minimum, they must be listed and described in the ROP application.

The "Applicable Requirements" (AR) column in the table includes specific rules or regulations that MAY apply to a source in those categories. A determination of whether or not a source is subject to the AR (and therefore should be included in the ROP application) must be made on a case-by-case basis. The AR citations reference Michigan's air regulations and the federal requirements published in the Federal Register. The Federal Register citations include the following: Part 60 for NSPS, Part 61 for the NESHAPs prior to 1990, Part 62 for the HON NESHAPs, and Part 63 for the MACT NESHAPs.

Generally Applicable Requirements (GARs) are not considered when addressing Rule 212 issues. These are addressed in the ROPs through general permit conditions. Therefore, GARs are listed in the footnote and are not included in the tables. Also, some process or process equipment may appear to meet an exemption listed in the support tables, but still be subject to a permit to install. The terms and conditions of any permit to install are applicable requirements

and detailed information is required in the ROP application for all such processes and process equipment.

Keep in mind that Rule 212 only specifies the information that must be included in the ROP application, not the information that must be included in the ROP itself. Specifically, terms or conditions for processes or process equipment covered by Rule 281(h), Rule 287(c) or Rule 290 will be included in the ROP to address the usage restrictions, emission limitations, recordkeeping, and other requirements specified within those provisions. Rule 213 specifies the information that must be included in the ROP.

Note: As of July 5, 2001, Rule 212 is being revised as part of Rule Package ORR 1998-036EQ. The rules package is expected to be final on September 2, 2001 and includes air pollution control rules changes intended to address out-standing regulatory issues identified in the U.S. EPA Title V Interim Approval of Michigan's ROP Program. The changes to Rule 212 are reflected in the support tables and include the following:

- Revising the title of the rule to more accurately reflect the contents.
- Reorganizing the rule to clarify what information must be included in an "administratively complete" ROP application.
- Updating citations and adding new permit to install exemptions that have been promulgated since Rule 212 was effective.
- Deleting language that states insignificant activities do not contribute to a source's potential to emit.
- Clarifying the provision for quantifying emissions for the purpose of calculating fees.

Please contact Danita Brandt or Joanne Foy with any recommendations about corrections or improvements.

#### Attachments

cc: ROP Desk Manual Distribution List  
Joanne Foy, OPU  
Danita Brandt, OPU

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION**

**Summary of R 336.1212(2) & Associated Applicable Requirements**

| <b>Rule 212 Subrule</b> | <b>Reference Rule</b> | <b>Description</b>                                                                                                                                                                                                                                                                                                                                                 | <b>Applicable Requirements*</b> |
|-------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| R212(2)(b)              | Rule 285              | Miscellaneous                                                                                                                                                                                                                                                                                                                                                      |                                 |
|                         |                       | (a) Routine maintenance, parts replacement, or other repairs that are considered by the department to be minor, or relocation of process equipment within the same geographical site not involving any appreciable change in the quality, nature, quantity, or impact of the emission of an air contaminant therefrom. Examples or replacement or repairs include: |                                 |
|                         |                       | (i) Replacing bags in a baghouse.                                                                                                                                                                                                                                                                                                                                  | None                            |
|                         |                       | (ii) Replacing wires, plates, rappers, controls, or electric circuitry in an electrostatic precipitator which does not measurably decrease the design efficiency of the unit.                                                                                                                                                                                      | None                            |
|                         |                       | (iii) Replacement of fans, pumps, or motors which does not alter the operation of a source or performance of air pollution control equipment.                                                                                                                                                                                                                      | None                            |
|                         |                       | (iv) Boiler tubes.                                                                                                                                                                                                                                                                                                                                                 | None                            |
|                         |                       | (v) Piping, hoods, and ductwork.                                                                                                                                                                                                                                                                                                                                   | None                            |
|                         |                       | (vi) Replacement of engines, compressors, or turbines as part of a normal maintenance program.                                                                                                                                                                                                                                                                     | None                            |
|                         |                       | (b) Changes in a process or process equipment which do not involve installing, constructing, or reconstruction an emission unit and which do not involve any meaningful change in the quality and nature or any meaningful increase in the quantity of the emission of an air contaminant therefrom. Examples of such changes include:                             |                                 |
|                         |                       | (i) Change in the supplier or formulation of similar raw materials, fuels, or paints and other coatings.                                                                                                                                                                                                                                                           | None                            |
|                         |                       | (ii) Change in the sequence of the process.                                                                                                                                                                                                                                                                                                                        | None                            |
|                         |                       | (iii) Change in the method of raw material addition.                                                                                                                                                                                                                                                                                                               | None                            |
|                         |                       | (iv) Change in the method of product packaging.                                                                                                                                                                                                                                                                                                                    | None                            |
|                         |                       | (v) Change in the process operating parameters.                                                                                                                                                                                                                                                                                                                    | None                            |
|                         |                       | (vi) Installation of a floating roof on an open-top petroleum storage tank.                                                                                                                                                                                                                                                                                        | None                            |
|                         |                       | (vii) Replacement of a fuel burner in a boiler with an equally or more thermally efficient burner.                                                                                                                                                                                                                                                                 | None                            |
|                         |                       | (viii) Lengthening a paint drying oven to provide additional curing time.                                                                                                                                                                                                                                                                                          | None                            |
|                         |                       | (c) Changes in a process or process equipment which do not involve installing, constructing, or reconstructing an emission unit and which involve a meaningful change in the quality and nature, or a meaningful increase in the quantity, of the emission of an air contaminant resulting from any of the following:                                              |                                 |
|                         |                       | (i) Changes in the supplier or supply of the same type of virgin fuel such as coal, no. 2 or no. 6 fuel oil, or natural gas.                                                                                                                                                                                                                                       | None                            |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.

| Rule 212 Subrule | Reference Rule | Description                                                                                                                                                                                                                                                                                                                          | Applicable Requirements* |
|------------------|----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                  |                | (ii) Changes in the location, within the storage area, or configuration of a material storage pile or material handling equipment.                                                                                                                                                                                                   | None                     |
|                  |                | (iii) Changes in a process or process equipment to the extent that such changes do not alter the quality and nature, or increase the quantity of the emission of such air contaminant beyond the level which has been described in and allowed by an approved permit to install, permit to operate, or order of the department.      | None                     |
|                  |                | (d) Reconstruction or replacement of air pollution control equipment with equivalent or more efficient equipment.                                                                                                                                                                                                                    | None                     |
|                  |                | (e) Installation, construction, or replacement of air pollution control equipment for an existing process or process equipment for the purpose of complying with the National Emission Standards of Hazardous Air Pollutants regulated under Section 1232 of Part A of Title 1 of the Clean Air Act, 84 statute 1685, 42 U.S.C. 7412 | NESHAP                   |
|                  |                | (f) Installation or construction of air pollution control equipment for an existing process or process equipment provided that the control equipment itself does not actually generate a significant amount of criteria air contaminants as defined in R 336.1119(e) or a meaningful quantity of toxic air contaminants.             | None                     |
|                  |                |                                                                                                                                                                                                                                                                                                                                      |                          |
| R212(2)(c)       | Rule 287       | Surface coating equipment                                                                                                                                                                                                                                                                                                            |                          |
|                  |                | (f) Replacement of waterwash control in a paint spray booth with dry filter control.                                                                                                                                                                                                                                                 | None                     |
|                  |                | (g) Adding dry filters to paint spray booths.                                                                                                                                                                                                                                                                                        | None                     |
|                  |                | (h) Replacement of a coating applicator with a coating applicator that has an equivalent or higher design transfer efficiency, unless the applicator type is specified in a permit condition.                                                                                                                                        | None                     |

Note: These process changes do not need a permit to install application and therefore do not need to be included in an ROP application. However, if any compliance monitoring requirements in the ROP would be affected by such change, then an application shall be made to revise the ROP pursuant to R 336.1216.

Example - A facility has a paint booth with a water curtain for control. The existing permit requires monitoring and recordkeeping of a flow rate to ensure proper operation of the water curtain. If the water curtain is replaced with dry filters, a permit to install is not required for the change, but the existing compliance monitoring plan, which is now obsolete, must be revised in the ROP to reflect the new control equipment.

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION**

**Summary of R 336.1212(3) & Associated Applicable Requirements**

| <b>Rule 212 Subrule</b> | <b>Reference Rule</b> | <b>Description</b>                                                                                                                                                      | <b>Applicable Requirements*</b>                                                                |
|-------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| R212(3)(a)              | Rule 280              | Cooling and ventilating equipment                                                                                                                                       |                                                                                                |
|                         |                       | (a) cold storage refrigeration equipment                                                                                                                                | Possibly Title VI                                                                              |
|                         |                       | (b) comfort air conditioning or ventilating systems                                                                                                                     | Possibly Title VI                                                                              |
|                         |                       | (c) natural draft hoods or ventilation                                                                                                                                  | None                                                                                           |
|                         |                       | (d) water-cooling towers and ponds (not for evaporative cooling)                                                                                                        | A few using Cr are subject to 40 CFR, Part 63, Subpart Q                                       |
|                         |                       | (e) embalming processes                                                                                                                                                 | None                                                                                           |
| R212(3)(b)              | Rule 281              | Cleaning, washing, drying equipment                                                                                                                                     |                                                                                                |
|                         |                       | (a) vacuum-cleaning systems for housekeeping                                                                                                                            | None                                                                                           |
|                         |                       | (b) portable steam cleaning equipment                                                                                                                                   | None                                                                                           |
|                         |                       | (c) water-borne abrasive cleaning equipment                                                                                                                             | None                                                                                           |
|                         |                       | (d) portable blast-cleaning equipment                                                                                                                                   | None                                                                                           |
|                         |                       | (e) washing or drying equipment if material not a contaminant & no VOCs with vapor pressure greater than 0.1 mm Hg at standard conditions or certain fuels used         | None                                                                                           |
|                         |                       | (f) laundry dryers, extractors, tumblers if only water solutions of bleach or detergents                                                                                | None                                                                                           |
|                         |                       | (i) sterilization equipment using certain compounds                                                                                                                     | None                                                                                           |
| R212(3)(c)              | Rule 282              | Furnaces, ovens & heaters                                                                                                                                               |                                                                                                |
|                         |                       | (a) the following processes which are electrically heated:                                                                                                              |                                                                                                |
|                         |                       | (i) furnaces for heat treating, which don't involve molten materials, oil-coated parts or oil quenching                                                                 | None                                                                                           |
|                         |                       | (ii) porcelain enameling furnaces or drying ovens                                                                                                                       | None                                                                                           |
|                         |                       | (iii) kilns for firing ceramic ware                                                                                                                                     | None                                                                                           |
|                         |                       | (iv) crucible, pot, or induction melting & holding furnaces with capacity of < 1000 pounds, sweating & distilling is not conducted, no fluxing with specified compounds | 40 CFR, Part 60, Subpart L; 40 CFR, Part 63, Subparts X, RRR, EEEEE, ZZZZZ, TTTTTT and ZZZZZZ. |
|                         |                       | (v) bakery ovens and cookers for products intended for human consumption                                                                                                | None                                                                                           |
|                         |                       | (vi) electric resistance melting and holding furnaces that meet certain criteria                                                                                        | 40 CFR, Part 63, Subparts X, TTTTTT and ZZZZZZ                                                 |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.

| Rule 212 Subrule | Reference Rule | Description                                                                                                                                                                      | Applicable Requirements*                                         |
|------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| R212(3)(d)       | Rule 283       | Testing & inspection equipment (Excluding those listed in (2)(a)-(d))                                                                                                            |                                                                  |
|                  |                | (a) pilot processes utilizing T-BACT for analysis, research and testing as listed in (i)-(viii)                                                                                  | None                                                             |
|                  |                | (b) laboratory equipment                                                                                                                                                         | None                                                             |
|                  |                | (c) equipment for hydraulic or hydrostatic testing                                                                                                                               | None                                                             |
|                  |                | (d) equipment for inspection of metal, wood or plastic products                                                                                                                  | None                                                             |
|                  |                | (e) vacuum pumps for leak-testing metal products using helium or nitrogen                                                                                                        | None                                                             |
|                  |                | (f) process sample valves to collect material for testing and inspection                                                                                                         | 40 CFR, Part 61, Subparts J and V;<br>40 CFR, Part 63, Subpart H |
| R212(3)(e)       | Rule 284       | Containers                                                                                                                                                                       |                                                                  |
|                  |                | (a) dipping or storage operations for coating objects with substances containing no organic solvents                                                                             | None                                                             |
|                  |                | (c) storage and surge capacity of lubricating hydraulic, and thermal oils and indirect heat transfer fluids                                                                      | 40 CFR, Part 60, Subpart K, Ka, Kb                               |
|                  |                | (d) storage of specified fuel oils                                                                                                                                               | 40 CFR, Part 60, Subpart Kb                                      |
|                  |                | (h) storage of water solutions of inorganic salts and bases and specified acids, limited by % by weight                                                                          | None                                                             |
|                  |                | (j) pressurized storage of acetylene, hydrogen, oxygen, nitrogen, helium & other substances with boiling point of 0° C (except if >500 gallons of chlorine or anhydrous ammonia) | Section 112(r)                                                   |
|                  |                | (k) storage containers of noncarcinogenic solid material, only emit PM with appropriate controls                                                                                 | Rule 331, Table 31, J                                            |
|                  |                | (l) filling of noncarcinogenic liquids in containers where emissions are released only into general in-plant environment                                                         | 40 CFR, Part 63, Subpart DD                                      |
|                  |                | (m) storage of wood and wood residues                                                                                                                                            | Rule 331, Table 31, J                                            |
| R212(3)(f)       | Rule 285       | Miscellaneous                                                                                                                                                                    |                                                                  |
|                  |                | (h) vacuum pumps in lab or pilot plant operations                                                                                                                                | None                                                             |
|                  |                | (i) brazing, soldering, welding or plasma coating equipment                                                                                                                      | None                                                             |
|                  |                | (j) portable cutting torches                                                                                                                                                     | None                                                             |
|                  |                | (k) grain, metal or mineral extrusion presses                                                                                                                                    | None                                                             |
|                  |                | (l) the following equipment & associated exclusive exhaust or collector system:                                                                                                  |                                                                  |
|                  |                | (i) equipment used for bending, forming, expanding rolling, forging, pressing, drawing, stamping, spinning or extruding hot or cold metals                                       | Rule 331, Table 31, J;<br>40 CFR Part 63, Subpart XXXXXX         |
|                  |                | (ii) die casting machines                                                                                                                                                        | None                                                             |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.

| Rule 212 Subrule | Reference Rule | Description                                                                                                                 | Applicable Requirements*                                                             |
|------------------|----------------|-----------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|                  |                | (iii) equipment for surface prep. of metals using aqueous solutions, except for acid solutions                              | 40CFR, Part 63, Subpart WWWWWW                                                       |
|                  |                | (iv) air generators used with metal heat treating processes                                                                 | None                                                                                 |
|                  |                | (v) equipment used exclusively for sintering of glass or metals                                                             | None                                                                                 |
|                  |                | (vii) photographic process equipment as listed in (A)-(E)                                                                   | None                                                                                 |
|                  |                | (viii) battery charging operations                                                                                          | None                                                                                 |
|                  |                | (ix) pad printers                                                                                                           | None                                                                                 |
|                  |                | (m) lagoons, water & sewage treatment systems except for those listed in (i)-(iv)                                           | 40 CFR, Part 60, Subpart QQQ;<br>40 CFR, Part 63, Subparts F, G, DD and HHHHH        |
|                  |                | (n) livestock systems with only odorous gas as a potential air emission                                                     | None                                                                                 |
|                  |                | (o) grain drying and handling equipment on a farm                                                                           | Rule 331, Table 31, J                                                                |
|                  |                | (p) commercial grain drying & handling equipment                                                                            | 40 CFR, Part 60, Subpart DD; Rule 331, Table 31, J                                   |
|                  |                | (r) equipment for the following metal treatment processes if the emissions are released only into the in-plant environment: |                                                                                      |
|                  |                | (i) surface treatment                                                                                                       | 40 CFR, Part 63, Subparts N and WWWWWW                                               |
|                  |                | (ii) pickling                                                                                                               | 40 CFR, Part 63, Subparts CCC and WWWWWW                                             |
|                  |                | (iii) acid dipping                                                                                                          | 40 CFR, Part 63, Subpart WWWWWW                                                      |
|                  |                | (iv) cleaning                                                                                                               | Rules 611, 612, 613, 614, 707, 708, 709, 710; 40 CFR, Part 63, Subparts T and WWWWWW |
|                  |                | (v) etching                                                                                                                 | 40 CFR, Part 63, Subpart WWWWWW                                                      |
|                  |                | (vi) electropolishing                                                                                                       | 40 CFR, Part 63, Subpart WWWWWW                                                      |
|                  |                | (vii) electrolytic stripping or plating                                                                                     | 40 CFR, Part 63, Subparts N and WWWWWW                                               |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.

| Rule 212 Subrule | Reference Rule | Description                                                                                                                                                                           | Applicable Requirements*                                                                                                     |
|------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|                  |                | (s) emissions authorized pursuant to a U.S. Nuclear Regulatory Commission license                                                                                                     | 40 CFR, Part 61, Subparts H and I                                                                                            |
|                  |                | (t) mining & screening of uncrushed sand, gravel, soil and other inorganic soil-like materials                                                                                        | Rule 371 (if Table 36 area); Section 5524 of NREPA; 40 CFR, Part 60, Subpart OOO                                             |
|                  |                | (v) vapor vacuum extraction soil remediation process with no emissions to the air                                                                                                     | None                                                                                                                         |
|                  |                | (w) controlled air strippers used just for fuel spills                                                                                                                                | None                                                                                                                         |
|                  |                | (x) asbestos removal or stripping process equipment                                                                                                                                   | 40 CFR, Part 61, Subpart M                                                                                                   |
|                  |                | (y) ozonization process equipment                                                                                                                                                     | None                                                                                                                         |
|                  |                | (z) combustion of boiler cleaning solutions if the solution is not hazardous pursuant to fed regulations or state rules                                                               | None                                                                                                                         |
|                  |                | (aa) landfills & associated flares & leachate collection & handling equipment                                                                                                         | 40 CFR, Part 60, Subparts Cc and WWW; 40 CFR, Part 61, Subpart M; 40 CFR, Part 62, Subpart GGG; 40 CFR Part 63, Subpart AAAA |
|                  |                | (bb) composting process or process equipment                                                                                                                                          | None                                                                                                                         |
|                  |                | (cc) gun shooting ranges controlled by appropriate high-efficiency particulate filters                                                                                                | None                                                                                                                         |
|                  |                | (dd) equipment for handling, conveying, cleaning, milling, mixing, cooking, drying, coating, and packaging grain-based food products and ingredients which meet any of the following: | Rule 331, Table 31, J                                                                                                        |
|                  |                | (i) used on a non-production basis                                                                                                                                                    | Rule 331, Table 31, J                                                                                                        |
|                  |                | (ii) emissions released only into general in-plant environment                                                                                                                        | Rule 331, Table 31, J                                                                                                        |
|                  |                | (iii) if externally vented, has appropriate control system                                                                                                                            | Rule 331, Table 31, J                                                                                                        |
|                  |                | (ee) open burning                                                                                                                                                                     | Rule 310                                                                                                                     |
|                  |                | (ff) fire extinguisher filling, testing, spraying, and repairing                                                                                                                      | None                                                                                                                         |
|                  |                | (gg) equipment used for chipping, flaking, or hogging wood or wood residues that are not demolition waste materials                                                                   | Rule 331, Table 31, J                                                                                                        |
|                  |                | (hh) a process that uses only hand-held aerosol spray cans, including the puncturing and disposing of the spray cans                                                                  | None                                                                                                                         |
|                  |                | (ii) fuel cells that use phosphoric acid, molten carbonate, proton exchange membrane, or solid oxide or equivalent technologies                                                       | None                                                                                                                         |
|                  |                | (kk) air sparging systems that meet certain criteria                                                                                                                                  | None                                                                                                                         |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.

| Rule 212 Subrule | Reference Rule | Description                                                                                                                                                                                                                         | Applicable Requirements*                                                                |
|------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
|                  |                | (II) air separation or fractionation equipment used to produce nitrogen, oxygen, or other atmospheric gases                                                                                                                         | None                                                                                    |
| R212(3)(g)       | Rule 286       | Plastic processing equipment                                                                                                                                                                                                        |                                                                                         |
|                  |                | (a) plastic extrusion, rotocasting & pultrusion & associated resin equipment                                                                                                                                                        | 40 CFR, Part 63, Subpart WWWW                                                           |
|                  |                | (b) plastic injection, compression & transfer molding equipment & associated resin equipment                                                                                                                                        | 40 CFR, Part 63, Subpart WWWW                                                           |
|                  |                | (c) plastic blow molding equipment & associated resin equipment if the blowing gas is one of those listed                                                                                                                           | None                                                                                    |
|                  |                | (d) plastic thermoforming equipment                                                                                                                                                                                                 | None                                                                                    |
|                  |                | (e) reaction injection molding (open or closed mold) and slabstock/casting equipment                                                                                                                                                | 40 CFR, Part 63, Subpart WWWW                                                           |
|                  |                |                                                                                                                                                                                                                                     |                                                                                         |
| R212(3)(h)       | Rule 287       | Surface coating equipment                                                                                                                                                                                                           |                                                                                         |
|                  |                | (b) surface coating process using only hand-held aerosol spray cans, including the puncturing and disposing of the spray cans                                                                                                       | Rules 610, 621, 624, 632, and 702                                                       |
|                  |                | (d) powder coating booth with appropriate control system & associated ovens                                                                                                                                                         | Rule 331, Table 31, J; Various Surface Coating MACTS and Surface Coating NSPS may apply |
|                  |                | (e) silk-screen process                                                                                                                                                                                                             | None                                                                                    |
|                  |                | (i) equipment for application of hot melt adhesive                                                                                                                                                                                  | None                                                                                    |
|                  |                | (j) portable equipment for on-site production painting                                                                                                                                                                              | Part 6 and Part 7 Rules; 40 CFR, Part 63, Subpart HHHHHH                                |
|                  |                | (k) mixing, blending or metering operations associated with a coating line                                                                                                                                                          | Various Surface Coating MACTS and Surface Coating NSPS may apply                        |
|                  |                |                                                                                                                                                                                                                                     |                                                                                         |
| R212(3)(i)       | Rule 288       | Oil and gas processing equipment                                                                                                                                                                                                    |                                                                                         |
|                  |                | (a) gas odorizing equipment                                                                                                                                                                                                         | None                                                                                    |
|                  |                | (b) glycol dehydrator located at an oil well site controlled by a condenser or by other control equipment of equivalent or better efficiency, or located at a site or facility that only processes natural gas from the Antrim zone | 40 CFR Part 63, Subparts HH and HHH                                                     |
|                  |                | (c) sweet gas flare                                                                                                                                                                                                                 | None                                                                                    |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.

| Rule 212 Subrule | Reference Rule | Description                                                                                                    | Applicable Requirements*     |
|------------------|----------------|----------------------------------------------------------------------------------------------------------------|------------------------------|
|                  |                | (d) equipment for the separation or fractionation of sweet natural gas, but not including sweetening equipment | 40 CFR, Part 60, Subpart KKK |
|                  |                | (e) equipment used for oil & gas well drilling, testing, completion, rework & plugging activities              | Rule 403                     |
|                  |                |                                                                                                                |                              |
| R212(3)(j)       | Rule 289       | Asphalt & concrete production equipment                                                                        |                              |
|                  |                | (a) cold feed aggregate bin for asphalt & concrete production equipment                                        | None                         |
|                  |                | (b) liquid asphalt storage tank with appropriate control                                                       | None                         |
|                  |                | (c) asphalt concrete storage silo with emissions vented back into the kiln or equivalent control               | None                         |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.  
03-02-2011

**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
AIR QUALITY DIVISION**

**Summary of R 336.1212(4) & Associated Applicable Requirements**

| <b>Rule 212 Subrule</b> | <b>Reference Rule</b> | <b>Description</b>                                                                                                                                                                                           | <b>Applicable Requirements*</b>                                   |
|-------------------------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| R212(4)(a)              | Rule 281              | Cleaning, washing & drying equipment                                                                                                                                                                         |                                                                   |
|                         |                       | (g) dry-cleaning equipment with capacity < 100 pounds of clothes                                                                                                                                             | Rule 619; 40 CFR Part 60, Subpart JJJ; 40 CFR, Part 63, Subpart M |
|                         |                       | (h) cold cleaners that have air/vapor interface not more than 10 sq. ft                                                                                                                                      | Rules 611, 613, 707, 709; 40 CFR, Part 63, Subpart T              |
|                         |                       | (j) portable blast cleaning equipment that meets certain criteria                                                                                                                                            | None                                                              |
| R212(4)(b)              | Rule 282              | Furnaces, ovens & heaters                                                                                                                                                                                    |                                                                   |
|                         |                       | (a) processes or equipment which fire sweet gas or no. 1 or no. 2 fuel oil, maximum total heat input rate < 10 million Btu/hr:                                                                               |                                                                   |
|                         |                       | (i) furnaces for heat treating glass or metals not involving molten materials, oil-coated parts or oil quenching                                                                                             | Rule 402                                                          |
|                         |                       | (ii) porcelain enameling furnaces or drying ovens                                                                                                                                                            | Rule 402                                                          |
|                         |                       | (iii) kilns for firing ceramic ware                                                                                                                                                                          | Rule 402                                                          |
|                         |                       | (iv) crucible furnaces, pot furnaces or induction melting & holding furnaces with limited capacity & not used for certain purposes or using certain compounds                                                | Rule 402                                                          |
|                         |                       | (v) bakery ovens & confection cookers for products for human consumption                                                                                                                                     | Rule 402                                                          |
|                         |                       | (b) fuel-burning equipment used for limited purposes and burning only the following fuels:                                                                                                                   |                                                                   |
|                         |                       | (i) sweet natural gas, synthetic gas, liquified petroleum gas if the equipment capacity is not more than 50 million Btu/hr                                                                                   | 40 CFR, Part 60, Subpart Dc                                       |
|                         |                       | (ii) # 1 or #2 fuel oil, distillate oil, gaseous fuels specified in (i) above or combination, which contains not more than 0.4% sulfur by weight & the equipment capacity is not more than 20 million Btu/hr | Rule 331, Table 31, A.6 and 7; 40 CFR, Part 60, Subpart Dc        |
|                         |                       | (iii) wood, wood residue or wood waste which meets specified criteria & the equipment capacity is not more than 6 million Btu/hr                                                                             | Rule 331, Table 31, A.6 and 7; 40 CFR, Part 60, Subpart Dc        |
|                         |                       | (iv) waste oil or used oil fuels which are generated at the site & the equipment has capacity not more than 500,000 Btu/hr                                                                                   | 40 CFR, Part 60, Subpart Dc                                       |
|                         |                       | (c) fuel-burning & refuse-burning equipment used exclusively for dwelling of not more than 3 families                                                                                                        | None                                                              |
|                         |                       | (d) all residential cooking equipment                                                                                                                                                                        | None                                                              |
|                         |                       | (e) smokehouses & other equipment used for preparing food for human consumption at restaurants, etc.                                                                                                         | None                                                              |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.

| Rule 212 Subrule | Reference Rule | Description                                                                                                                                                                                                                      | Applicable Requirements*                                                                   |
|------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
|                  |                | (f) blacksmith forges                                                                                                                                                                                                            | None                                                                                       |
|                  |                | (g) sour gas-burning equipment, if actual emission of SO <sub>2</sub> does not exceed 1 lb/hr                                                                                                                                    | Rule 403                                                                                   |
|                  |                |                                                                                                                                                                                                                                  |                                                                                            |
| R212(4)(c)       | Rule 284       | Containers                                                                                                                                                                                                                       |                                                                                            |
|                  |                | (b) storage of butane, propane or liquefied petroleum gas in a vessel < 40,000 gallons                                                                                                                                           | Section 112(r); 40 CFR, Part 63, Subpart EEEE                                              |
|                  |                | (e) storage of sweet crude or sweet condensate in a vessel < 40,000 gallons                                                                                                                                                      | 40 CFR, Part 63, Subpart EEEE                                                              |
|                  |                | (f) storage of sour crude or sour condensate in a vessel < 40,000 gallons if vapor recovery or equivalent control is used                                                                                                        | Rule 403                                                                                   |
|                  |                | (g) gasoline or natural gas storage & handling equipment as follows:                                                                                                                                                             |                                                                                            |
|                  |                | (i) gasoline storage and handling equipment at loading facilities handling < 20,000 gallons/day or at dispensing facilities                                                                                                      | Rules 606-608, 703-705; Section 112(r); 40 CFR, Part 63, Subparts BBBB and CCCCC           |
|                  |                | (ii) natural gas storage and handling equipment at dispensing facilities                                                                                                                                                         | None                                                                                       |
|                  |                | (i) storage or transfer operations of VOCs or noncarcinogenic liquids in a vessel < 40,000 gallons where contents have true vapor pressure not more than 1.5 psia at storage conditions                                          | Section 112(r); 40 CFR, Part 60, Subparts K, Ka, Kb; 40 CFR, Part 63, Subparts DD and EEEE |
|                  |                | (n) storage of methanol in a vessel that has a capacity of not more than 30,000 gallons <b><i>(Rule 212(4) must be revised to include this exemption)</i></b>                                                                    | 40 CFR, Part 63, Subparts DD and EEEE                                                      |
|                  |                |                                                                                                                                                                                                                                  |                                                                                            |
| R212(4)(d)       | Rule 285       | Miscellaneous                                                                                                                                                                                                                    |                                                                                            |
|                  |                | (g) internal combustion engines with < 10 million Btu/hr maximum heat input                                                                                                                                                      | Rule 402; 40 CFR, Part 60, Subparts III and JJJJ; 40 CFR, Part 63, Subpart ZZZZ            |
|                  |                | (l)(vi) Equipment for carving, cutting, etc. of ceramic artwork, leather, metals, etc. which meets any of the following:                                                                                                         |                                                                                            |
|                  |                | (A) used on non-production basis                                                                                                                                                                                                 | Rule 331, Table 31, J                                                                      |
|                  |                | (B) emissions released into general in-plant environment                                                                                                                                                                         | Rule 331, Table 31, J                                                                      |
|                  |                | (C) if externally vented, has appropriate controls                                                                                                                                                                               | Rule 331, Table 31, J                                                                      |
|                  |                | (q) portable stream deicers that have heat input of <1 million Btu/hr                                                                                                                                                            | None                                                                                       |
|                  |                | (u) solvent distillation equipment with rated batch capacity of not more than 55 gallons                                                                                                                                         | Rule 702                                                                                   |
|                  |                | (jj) any vacuum truck used at a remediation site if it is not used more than once per month at a site and the usage is not more than 2 consecutive days                                                                          | None                                                                                       |
|                  |                | (mm) routine and emergency venting of natural gas from transmission and distribution systems or field gas from gathering lines that meets certain criteria <b><i>(Rule 212(4) must be revised to include this exemption)</i></b> | None                                                                                       |
|                  |                |                                                                                                                                                                                                                                  |                                                                                            |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.

| Rule 212 Subrule | Reference Rule | Description                                                                                                                                                                                                                                                                                                    | Applicable Requirements*                                                                        |
|------------------|----------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|
| R212(4)(e)       | Rule 287       | Surface coating equipment                                                                                                                                                                                                                                                                                      |                                                                                                 |
|                  |                | (a) adhesive coating line with application rate < 2 gallons/day, with emissions released only into general in-plant environment                                                                                                                                                                                | Rules 621, 632, 610, 624, 702; Various Surface Coating MACTS and Surface Coating NSPS may apply |
|                  |                | (c) surface coating line if: the coating use rate is not more than 200 gallons/month; the exhaust system has proper particulate control system; and the monthly use records are kept on file & available to AQD for the most recent 2 years                                                                    | Rules 610, 621, 624, 632, 702; Various Surface Coating MACTS and Surface Coating NSPS may apply |
|                  |                |                                                                                                                                                                                                                                                                                                                |                                                                                                 |
| R212(4)(f)       | Rule 289       | Asphalt and concrete production equipment                                                                                                                                                                                                                                                                      |                                                                                                 |
|                  |                | (d) concrete batch plants that meet certain requirements                                                                                                                                                                                                                                                       | None                                                                                            |
|                  |                |                                                                                                                                                                                                                                                                                                                |                                                                                                 |
| R212(4)(g)       | Rule 290       | Emission units with limited emissions listed in Rule 290(a) if the conditions listed in (b), (c), and (d) are met                                                                                                                                                                                              |                                                                                                 |
|                  |                | (a) an emission unit which meets any of the following criteria:                                                                                                                                                                                                                                                |                                                                                                 |
|                  |                | (i) emits only noncarcinogenic VOCs or noncarcinogenic materials listed in R 336.1122(f) as not contributing to formation of ozone, if uncontrolled emissions ≤ 1,000 lb/mo or controlled emissions ≤ 500 lb/mo                                                                                                | Part 6 and 7 Rules; 40 CFR Part 60 (NSPS) and Part 63 (MACT) Standards                          |
|                  |                | (ii) the total uncontrolled emissions ≤ 1,000 lb/mo or controlled emissions ≤ 500 lb/mo, and all of the following criteria are met:                                                                                                                                                                            | Part 6 and 7 Rules; 40 CFR Part 60 (NSPS) and Part 63 (MACT) Standards                          |
|                  |                | (A) for noncarcinogenic air contaminants, excluding noncarcinogenic VOCs and noncarcinogenic materials listed in R 336.1122(f) as not contributing to formation of ozone, with ITSLs ≥ 2.0 ug/m <sup>3</sup> , uncontrolled emissions ≤ 1,000 lb/mo or controlled emissions ≤ 500 lb/mo                        |                                                                                                 |
|                  |                | (B) for noncarcinogenic air contaminants, excluding noncarcinogenic VOCs and noncarcinogenic materials listed in R 336.1122(f) as not contributing to formation of ozone, with ITSLs ≥ 0.04 ug/m <sup>3</sup> and < 2.0 ug/m <sup>3</sup> uncontrolled emissions ≤ 20 lb/mo or controlled emissions ≤ 10 lb/mo |                                                                                                 |
|                  |                | (C) for carcinogenic air contaminants with IRSLS ≥ 0.04 ug/m <sup>3</sup> uncontrolled emissions ≤ 20 lb/mo or controlled emissions ≤ 10 lb/mo                                                                                                                                                                 |                                                                                                 |
|                  |                | (D) the emission unit shall not emit any air contaminants, excluding noncarcinogenic VOCs and noncarcinogenic materials listed in R 336.1122(f) as not contributing to formation of ozone, with an ITSL or IRSLS < 0.04 ug/m <sup>3</sup>                                                                      |                                                                                                 |
|                  |                | (iii) emits only noncarcinogenic particulates and other air contaminants that are exempted under paragraphs (i) or (ii) of this subdivision if all of the following provisions are met:                                                                                                                        | Rule 331, Table 31, J; 40 CFR Part 60 (NSPS) and Part 63 (MACT) Standards                       |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.

| Rule 212 Subrule | Reference Rule | Description                                                                                                                                                                                                                  | Applicable Requirements* |
|------------------|----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
|                  |                | (A) emissions are controlled by fabric filter collector or equivalent control system designed to control to a concentration of < 0.01 lb particulate per 1,000 lb exhaust gases and exhaust gas flow rate $\leq$ 30,000 acfm |                          |
|                  |                | (B) the visible emissions $\leq$ 5% opacity                                                                                                                                                                                  |                          |
|                  |                | (C) the ITSL for each particulate air contaminant, excluding nuisance particulate, is > 2.0 ug/m <sup>3</sup>                                                                                                                |                          |

\* Does not include Generally Applicable Requirements, i.e. Rules 201, 210, 301, 370, 901, 910 & 1001.  
03-02-2011