

Chapter NR 488

**REFRIGERANT RECOVERY FROM SALVAGED OR  
DISMANTLED REFRIGERATION EQUIPMENT**

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**NR 488.01 Applicability; purpose.** (1) **APPLICABILITY.** This chapter applies to any person who salvages or dismantles mechanical vapor compression refrigeration equipment, any person who transports such equipment for salvaging or dismantling, any individual who uses or supervises the use of equipment to transfer ozone-depleting refrigerants from salvaged or dismantled mechanical vapor compression refrigeration equipment into storage tanks, any person who conducts a program to train operators of refrigerant recovery equipment and any person who conveys mechanical vapor compression refrigeration equipment to a scrap metal processor for metal recovery.

(2) **PURPOSE.** The purpose of this chapter is to establish, pursuant to s. 144.422, Stats., requirements for the recovery of ozone-depleting refrigerants from salvaged or dismantled mechanical vapor compression refrigeration equipment.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.02 Definitions.** The definitions contained in ch. NR 400 apply to the terms used in this chapter. In addition, the following definitions apply to the terms used in this chapter:

(1) "Approved refrigerant recovery equipment" means any equipment approved under s. NR 488.07 for refrigerant recovery.

(2) "Ozone-depleting refrigerant" has the meaning given in s. 100.45 (1) (d), Stats.

Note: "Ozone-depleting refrigerant" is defined in the referenced statute as "a substance used in refrigeration that is or contains a class I substance, as defined in 42 USC 7671 (3)." Examples of ozone-depleting refrigerants include, but are not limited to, R-11, R-12, R-113, R-114, R-115, R-500, and R-502.

(3) "Refrigerant recovery" means the transfer of ozone-depleting refrigerant from refrigeration equipment to an external container.

(4) "Refrigeration equipment" means any mechanical vapor compression device designed to contain and utilize an ozone-depleting refrigerant including, but not limited to, motor vehicle air conditioners, industrial and commercial cooling and ice-making equipment, large building cooling systems and home appliances such as refrigerators, freezers, room and central air conditioners, and dehumidifiers.

(5) "Salvage or dismantle" means to prepare entire units of refrigeration equipment, which have been removed permanently from service, for

disposal. Treatment of portions of refrigeration equipment for the purpose of service or repair is not considered salvaging or dismantling.

(6) "Scrap metal processor" has the meaning given in s. 84.31 (2) (h), Stats.

Note: "Scrap metal processor" is defined in the referenced statute as "a fixed location at which machinery and equipment are utilized for the processing and manufacturing of iron, steel or nonferrous metallic scrap into prepared grades and whose principal product is scrap iron, scrap steel or nonferrous metal scrap for sale for remelting purposes."

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.03 Prohibitions.** (1) During the salvaging, dismantling or transporting of refrigeration equipment, no person may knowingly or negligently release ozone-depleting refrigerant to the environment, except for minimal releases that occur as a result of efforts to transfer ozone-depleting refrigerant into storage tanks.

(2) No person may knowingly or negligently release from a storage tank to the environment ozone-depleting refrigerant that was removed during the salvaging, dismantling or transporting of refrigeration equipment, except for minimal releases that occur as a result of efforts to transfer ozone-depleting refrigerant into refrigeration equipment or other storage tanks.

(3) No person may salvage or dismantle any refrigeration equipment unless:

(a) That person holds and prominently displays an annual registration of certification obtained from the department under s. NR 488.04;

(b) That person uses refrigerant recovery equipment approved by the department under s. NR 488.07 to transfer remaining ozone-depleting refrigerant from each piece of refrigeration equipment into storage tanks; and

Note: Tanks used to transport or store recovered refrigerant should meet the appropriate federal department of transportation requirements as specified in Title 49 of the Code of Federal Regulations.

(c) Individuals who use the approved refrigerant recovery equipment have, or are working under the direct supervision of individuals who have, the qualifications required under s. NR 488.08.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.04 Registration; issuance; expiration.** (1) **REGISTRATION.** In order to obtain an annual registration of certification to salvage or dismantle refrigeration equipment, as required under s. NR 488.03 (3) (a), a person shall submit an application on forms supplied by the department along with the fee required under s. NR 488.11, and certify to the department that:

(a) Remaining ozone-depleting refrigerants will be transferred from each piece of refrigeration equipment into storage tanks using approved refrigerant recovery equipment and procedures which will minimize the release of ozone-depleting refrigerants to the environment; and

(b) Individuals who use the approved refrigerant recovery equipment have, or are working under the direct supervision of individuals who have, the qualifications required under s. NR 488.08.

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(2) **ISSUANCE.** The department shall issue the registration of certification within 30 days of receipt of a completed application and the fee required under s. NR 488.11.

(3) **EXPIRATION.** Registrations issued by the department under sub. (2) shall expire one year after the date of issuance.

Note: Requests for forms for registration under this section, and other items listed in this rule, should be directed to: Bureau of Air Management CFC Program, Department of Natural Resources, PO Box 7921, Madison, WI 53707.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.05 Conveyance to scrap metal processors; exemption. (1) CONVEYANCE TO A SCRAP METAL PROCESSOR.** Any person who sells, gives or transports refrigeration equipment to a scrap metal processor shall:

(a) Transfer ozone-depleting refrigerant from the refrigeration equipment into a storage tank using approved refrigerant recovery equipment or obtain and possess documentation that another person performed the transfer; and

(b) Provide documentation to the scrap metal processor that he or she has complied with par. (a).

Note: Sample forms for this documentation are available from the Bureau of Air Management CFC Program.

(2) **EXEMPTION.** Subsection (1) does not apply to a person who sells, gives or transports refrigeration equipment to a scrap metal processor when that processor has agreed in writing to transfer the ozone-depleting refrigerant into a storage tank using approved refrigerant recovery equipment and is registered with the department under s. NR 488.04.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.06 Recordkeeping. (1) SALVAGER OR DISMANTLER.** Persons registered under s. NR 488.04 shall keep records of their refrigerant recovery activities. These records shall be kept for 3 years, shall be made available to the department upon request and shall include:

(a) A training certificate for each individual certified to operate approved refrigerant recovery equipment under s. NR 488.08;

(b) The brand, model number and serial number of each piece of approved refrigerant recovery equipment used for refrigerant recovery;

(c) The type and quantity of refrigeration equipment salvaged or dismantled; and

(d) Records regarding the repair and maintenance of approved refrigerant recovery equipment, including date and nature of each repair or maintenance action.

Note: Requirements for keeping records of the sale and receipt of used refrigerant recovered from motor vehicle air conditioners are contained in s. ATCP 136.04, Wis. Adm. Code. (Contact the Wisconsin department of agriculture, trade and consumer protection).

(2) **CONVEYANCE TO SCRAP METAL PROCESSORS.** Documentation provided under s. NR 488.05 shall be retained by the recipient for 3 years and shall be made available to the department upon request.

(3) **TRANSPORTERS.** Persons certifying safe transport of refrigeration equipment under s. NR 488.10 shall retain the department's receipt for

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this certification and a copy of this receipt in each vehicle used for such transport. The receipt and copies in vehicles shall be kept while valid and shall be made available to the department upon request.

(4) **TRAINING PROGRAMS.** Any person approved to conduct a training program under s. NR 488.09 shall retain records of certifications provided including identification of each individual successfully completing the program and the date of that individual's certification. These records shall be kept for 10 years and shall be made available to the department upon request.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.07 Approval of refrigerant recovery equipment.** (1) The department may approve refrigerant recovery equipment if:

- (a) A nationally recognized testing laboratory has approved the recovery equipment;
- (b) The department determines that the laboratory's approval is based on adequate testing for safety and recovery efficiency; and
- (c) The refrigerant recovery equipment is capable of recovering at least 90% of refrigerant remaining in salvaged or dismantled refrigeration equipment.

(2) Refrigerant recovery equipment approved by the department of agriculture, trade & consumer protection under ch. ATCP 136 or the department of industry, labor & human relations under ch. ILHR 45 is considered approved under this section.

Note: A list of approved refrigerant recovery equipment is available from the Bureau of Air Management CFC Program.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.08 Qualifications of individuals who use approved refrigerant recovery equipment.** To be qualified to use or supervise the use of approved refrigerant recovery equipment an individual shall successfully complete a training program specifically designed to train that individual to recover refrigerant from the type of refrigeration equipment that individual will salvage or dismantle. This training program shall be approved by the department under s. NR 488.09, or approved by the department of agriculture, trade & consumer protection under ch. ATCP 136 or the department of industry, labor & human relations under ch. ILHR 45.

Note: For example, training for refrigerant recovery from salvaged vehicle air conditioners can be provided by programs approved by the department of agriculture, trade and consumer protection.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.09 Approval of training programs.** (1) The department may approve a training program that certifies an individual to use or supervise the use of approved refrigerant recovery equipment if the training program provides all of the following:

- (a) A presentation of the environmental concerns, including the destruction of stratospheric ozone and the global greenhouse effect, relating to the emission of ozone-depleting refrigerants.
- (b) A presentation of applicable state and federal laws regulating the recovery and handling of ozone-depleting refrigerants.

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(c) Instruction on general safety precautions to be followed during the recovery and handling of ozone-depleting refrigerants.

(d) Instruction for each person participating in the training program in the use of approved refrigerant recovery equipment. This instruction shall include an opportunity for each participant to operate or closely observe the operation of approved refrigerant recovery equipment.

Note: The recovery equipment should be of the type meant for refrigerant recovery from the kinds of refrigeration equipment expected to be salvaged or dismantled by training program participants.

(e) An evaluation of each individual participating in the course to verify successful completion.

(f) A certificate which identifies each individual who has successfully completed the program and each individual who was responsible for the presentation of the program.

(2) Application for approval of a training program shall be made by submitting an application on forms provided by the department along with the fee required under s. NR 488.11. The applicant shall demonstrate to the satisfaction of the department that the individuals who are responsible for the presentation of that program have adequate knowledge in all subject areas identified in sub. (1) (a) to (d).

Note: Forms for this application are available from the Bureau of Air Management CFC Program.

(3) Approval of a training program shall expire 3 years after the date of approval.

Note: A list of approved training programs is available from the Bureau of Air Management CFC Program.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.10 Safe transport certification; exemptions.** (1) **SAFE TRANSPORT CERTIFICATION.** Any person who transports, for the purposes of salvaging or dismantling, refrigeration equipment that contains ozone-depleting refrigerant shall certify to the department that that person will not knowingly or negligently release ozone-depleting refrigerant to the environment, except for minimal releases that occur as a result of refrigerant recovery efforts. This certification shall be submitted annually, along with a description of the safe transport methods to be used, and the fees required under s. NR 488.11. The department shall provide a receipt acknowledging the submission of this certification and fees.

Note: Forms for this certification and description are available from the Bureau of Air Management CFC Program.

(2) **EXEMPTIONS.** The certification requirement in sub. (1) does not apply to:

(a) An individual who transports his or her personal refrigeration equipment; or

Note: Individuals are prohibited from releasing ozone-depleting refrigerants in s. NR 488.03 (1).

(b) Any person transporting a vehicle, for the purposes of salvaging or dismantling, in a manner which will not interfere with the refrigeration equipment of the vehicle, including transporting vehicles on their own

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wheels, by tow trucks or secured on a vehicle specifically designed to transport motor vehicles.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.11 Fees.** (1) Any person applying for registration under s. NR 488.04, approval of training programs under s. NR 488.09 or certifying safe transport under s. NR 488.10 shall pay the applicable fee or fees as follows:

(a) Persons applying for annual registration of certification to salvage or dismantle refrigeration equipment under s. NR 488.04 shall submit a nonrefundable fee of \$250.00, except as provided under par. (b).

(b) Persons applying for annual registration to salvage or dismantle refrigeration equipment under s. NR 488.04 and who are already registered for refrigerant recovery with the department of agriculture, trade & consumer protection under ch. Ag 136 or the department of industry, labor & human relations under ch. ILHR 45 and who salvage or dismantle as a minor activity incidental to providing service to their customers shall submit a nonrefundable fee of \$125.00.

(c) Persons requesting approval of a training program under s. NR 488.09 shall submit a nonrefundable fee of \$500.00.

(d) Persons certifying safe transport of refrigeration equipment for the purposes of salvaging or dismantling under s. NR 488.10 shall submit:

1. An annual, nonrefundable fee of \$75.00, and

2. An annual, nonrefundable fee of \$25.00 times the number of vehicles to be used during the next year for safe transport of refrigeration equipment for the purposes of salvaging or dismantling.

(2) Persons applying for annual registration under sub. (1) (a) or (b) are not required to submit the fee under sub. (1) (d) 1, but shall submit the fee required under sub. (1) (d) 2.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.

**NR 488.12 Penalties.** (1) Any person who salvages or dismantles refrigeration equipment in violation of s. NR 488.03 (3) shall forfeit not less than \$100 nor more than \$1000. Each act of salvaging or dismantling in violation of s. NR 488.03 (3) constitutes a separate violation.

(2) Any person who sells, gives or transports refrigeration equipment to a scrap metal processor in violation of s. NR 488.05 shall forfeit not less than \$100 nor more than \$1000. Each unit sold, given or transported in violation of s. NR 488.05 constitutes a separate violation.

(3) Any person who releases ozone-depleting refrigerant in violation of s. NR 488.03 (1) or (2) or who transports refrigeration equipment in violation of s. NR 488.10 (1) shall forfeit not less than \$100 nor more than \$1000. Each release in violation of s. NR 488.03 (1) or (2) or transport in violation of 488.10 (1) constitutes a separate violation.

History: Cr. Register, April, 1993, No. 448, eff. 5-1-93.