

DEPARTMENT OF NATURAL RESOURCES  
LAW ENFORCEMENT DIVISION  
WHOLESALE FISH DEALERS REPORT FORMS #9165

**R 308.1 Rescinded.**

History: 1987 AACS; repealed 2013 MR 17, Eff. Immediately September 10, 2013.

LOCAL HUNTING AND FIREARMS CONTROLS

**R 317.101.1**

Source: 1981 AACS.

**R 317.106.1**

Source: 1979 AACS.

**R 317.108.1**

Source: 1979 AACS.

**R 317.108.2**

Source: 1980 AACS.

**R 317.111.1**

Source: 1979 AACS.

**R 317.111.2**

Source: 1983 AACS.

**R 317.120.1**

Source: 1979 AACS.

**R 317.120.2**

Source: 1979 AACS.

**R 317.120.3**

Source: 1979 AACS.

**R 317.123.1**

Source: 1982 AACS.

**R 317.123.2**

Source: 1979 AACS.

**R 317.123.3**

Source: 1982 AACS.

**R 317.123.4**

Source: 1982 AACS.

**R 317.124.1**

Source: 1979 AACS.

**R 317.125.1**

Source: 1979 AACS.

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**R 317.125.2**  
Source: 1979 AACS.

**R 317.125.3**  
Source: 1979 AACS.

**R 317.125.4**  
Source: 1979 AACS.

**R 317.125.5**  
Source: 1979 AACS.

**R 317.125.6**  
Source: 1979 AACS.

**R 317.125.7**  
Source: 1979 AACS.

**R 317.125.8**  
Source: 1984 AACS.

**R 317.135.1**  
Source: 1979 AACS.

**R 317.135.2**  
Source: 1980 AACS.

**R 317.135.3**  
Source: 1984 AACS.

**R 317.138.1**  
Source: 1979 AACS.

**R 317.138.2**  
Source: 1980 AACS.

**R 317.138.3**  
Source: 1980 AACS.

**R 317.139.1**  
Source: 1979 AACS.

**R 317.139.2**  
Source: 1979 AACS.

**R 317.147.1**  
Source: 1979 AACS.

**R 317.147.2**  
Source: 1979 AACS.

**R 317.147.3**  
Source: 1979 AACS.

**R 317.147.4**  
Source: 1979 AACS.

**R 317.147.5**  
Source: 1979 AACS.

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**R 317.147.5**  
Source: 1979 AACS.

**R 317.147.6**  
Source: 1979 AACS.

**R 317.147.7**  
Source: 1979 AACS.

**R 317.147.8**  
Source: 1981 AACS.

**R 317.150.1**  
Source: 1982 AACS.

**R 317.150.2**  
Source: 1979 AACS.

**R 317.150.3**  
Source: 1979 AACS.

**R 317.150.4**  
Source: 1979 AACS.

**R 317.150.5**  
Source: 1997 AACS.

**R 317.150.6**  
Source: 2012 AACS.

**R 317.150.7**  
Source: 2012 AACS.

**R 317.150.8**  
Source: 2012 AACS.

**R 317.150.9**  
Source: 1985 AACS.

**R 317.150.10**  
Source: 1997 AACS.

**R 317.150.12**  
Source: 1983 AACS.

**R 317.151.1**  
Source: 1985 AACS.

**R 317.163.1**  
Source: 1979 AACS.

**R 317.163.2**  
Source: 1979 AACS.

**R 317.163.3**  
Source: 1979 AACS.

**R 317.163.4**  
Source: 1979 AACS.

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**R 317.163.5**  
Source: 1979 AACS.

**R 317.163.6**  
Source: 1984 AACS.

**R 317.163.7**  
Source: 1984 AACS.

**R 317.163.8**  
Source: 1997 AACS.

**R 317.163.9**  
Source: 1979 AACS.

**R 317.163.10**  
Source: 1997 AACS.

**R 317.163.11**  
Source: 1997 AACS.

**R 317.163.12**  
Source: 1997 AACS.

**R 317.163.13**  
Source: 1979 AACS.

**R 317.163.14**  
Source: 1979 AACS.

**R 317.163.15**  
Source: 1979 AACS.

**R 317.163.16**  
Source: 1979 AACS.

**R 317.163.17**  
Source: 1979 AACS.

**R 317.163.18**  
Source: 1979 AACS.

**R 317.163.19**  
Source: 1979 AACS.

**R 317.163.20**  
Source: 1997 AACS.

**R 317.163.21**  
Source: 1979 AACS.

**R 317.163.22**  
Source: 1979 AACS.

**R 317.163.23**  
Source: 1979 AACS.

**R 317.163.24**  
Source: 1979 AACS.

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**R 317.163.25**  
Source: 1997 AACS.

**R 317.163.26**  
Source: 1979 AACS.

**R 317.163.27**  
Source: 1979 AACS.

**R 317.163.28**  
Source: 1979 AACS.

**R 317.163.29**  
Source: 1979 AACS.

**R 317.163.30**  
Source: 1979 AACS.

**R 317.163.31**  
Source: 1979 AACS.

**R 317.163.32**  
Source: 1979 AACS.

**R 317.163.33**  
Source: 1979 AACS.

**R 317.163.34**  
Source: 1979 AACS.

**R 317.163.35**  
Source: 1979 AACS.

**R 317.163.36**  
Source: 1997 AACS.

**R 317.163.37**  
Source: 1979 AACS.

**R 317.163.38**  
Source: 1997 AACS.

**R 317.163.39**  
Source: 1979 AACS.

**R 317.163.40**  
Source: 1979 AACS.

**R 317.163.41**  
Source: 1997 AACS.

**R 317.163.42**  
Source: 1985 AACS.

**R 317.163.43**  
Source: 1980 AACS.

**R 317.163.44**  
Source: 1984 AACS.

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**R 317.163.45**  
Source: 1981 AACS.

**R 317.163.46**  
Source: 1981 AACS.

**R 317.169.1**  
Source: 1979 AACS.

**R 317.169.2**  
Source: 1980 AACS.

**R 317.170.1**  
Source: 1979 AACS.

**R 317.170.2**  
Source: 1979 AACS.

**R 317.171.1**  
Source: 1979 AACS.

**R 317.170.2**  
Source: 1979 AACS.

**R 317.171.3**  
Source: 1985 AACS.

**R 317.173.1**  
Source: 1985 AACS.

**R 317.171.2**  
Source: 1979 AACS.

**R 317.173.3**  
Source: 1982 AACS.

**R 317.174.1**  
Source: 1979 AACS.

**R 317.181.1**  
Source: 1979 AACS.

**R 317.181.2**  
Source: 1979 AACS.

**R 317.181.3**  
Source: 1979 AACS.

**R 317.181.4**  
Source: 1979 AACS.

**R 317.181.5**  
Source: 1982 AACS.

**R 317.182.1**  
Source: 1983 AACS.

**R 317.182.2**  
Source: 1979 AACS.

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**R 317.182.3**  
Source: 1979 AACS.

**R 317.182.4**  
Source: 1979 AACS.

**R 317.182.5**  
Source: 1979 AACS.

**R 317.182.6**  
Source: 1979 AACS.

**R 317.182.7**  
Source: 1979 AACS.

**R 317.182.8**  
Source: 1980 AACS.

**R 317.182.9**  
Source: 1983 AACS.

**R 317.182.10**  
Source: 1983 AACS.

**R 317.182.11**  
Source: 1982 AACS.

**R 317.182.12**  
Source: 1982 AACS.

**MACKINAC ISLAND STATE PARK COMMISSION**

**GENERAL RULES**

**PART 1. DEFINITIONS**

**R 318.111**  
Source: 2002 AACS.

**R 318.112**  
Source: 2002 AACS.

**R 318.113**  
Source: 2002 AACS.

**R 318.114**  
Source: 2002 AACS.

**R 318.115**  
Source: 2002 AACS.

**R 318.116**  
Source: 2002 AACS.

**R 318.117**  
Source: 2002 AACS.

**R 318.118**

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Source: 2002 AACS.

**R 318.119**

Source: 2002 AACS.

**R 318.119a**

Source: 2002 AACS.

**R 318.119b**

Source: 1997 AACS.

**R 318.119c**

Source: 2002 AACS.

**R 318.119d**

Source: 2002 AACS.

**R 318.120**

Source: 2002 AACS.

**PART 2. REGULATIONS**

**R 318.121**

Source: 2002 AACS.

**R 318.122**

Source: 2002 AACS.

**R 318.122a**

Source: 2002 AACS.

**R 318.122b**

Source: 2002 AACS.

**R 318.123**

Source: 2002 AACS.

**R 318.124**

Source: 2002 AACS.

**R 318.126**

Source: 2002 AACS.

**R 318.127**

Source: 2002 AACS.

**R 318.129**

Source: 2002 AACS.

**R 318.133**

Source: 2002 AACS.

**R 318.134**

Source: 2002 AACS.

**R 318.135**

Source: 2002 AACS.

**R 318.136**

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Source: 2002 AACS.

**R 318.141**

Source: 2002 AACS.

**R 318.142**

Source: 2002 AACS.

**R 318.143**

Source: 2002 AACS.

**R 318.144**

Source: 2002 AACS.

**R 318.145**

Source: 2002 AACS.

**R 318.145a**

Source: 1997 AACS.

**R 318.145b**

Source: 2002 AACS.

**R 318.146**

Source: 2002 AACS.

**R 318.147**

Source: 2002 AACS.

**NATURAL RESOURCES COMMISSION**  
**RECREATION BOND PROGRAM**

**R 318.201**

Source: 1989 AACS.

**R 318.202**

Source: 1989 AACS.

**R 318.203**

Source: 1989 AACS.

**R 318.204**

Source: 1989 AACS.

**R 318.205**

Source: 1989 AACS.

**R 318.206**

Source: 1989 AACS.

**R 318.207**

Source: 1989 AACS.

**R 318.208**

Source: 1989 AACS.

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**R 318.209**  
Source: 1989 AACS.

**R 318.210**  
Source: 1989 AACS.

**R 318.211**  
Source: 1989 AACS.

**WILDERNESS AND NATURAL AREAS**

**R 322.2.1**  
Source: 1979 AC.

**R 322.2.2**  
Source: 1979 AC.

**R 322.3.1**  
Source: 1979 AC.

**R 322.11.1**  
Source: 1979 AC.

**R 322.11.2**  
Source: 1979 AC.

**R 322.27.1**  
Source: 1979 AC.

**R 322.27.2**  
Source: 1979 AC.

**R 322.38.1**  
Source: 1979 AC.

**R 322.49.1**  
Source: 1979 AC.

**R 322.49.2**  
Source: 1979 AC.

**R 322.49.3**  
Source: 1979 AC.

**R 322.49.4**  
Source: 1979 AC.

**R 322.50.1**  
Source: 1979 AC.

**R 322.55.1**  
Source: 2009 AACS.

**R 322.61.1**  
Source: 1979 AC.

**R 322.63.1**  
Source: 1979 AC.

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- R 322.63.2**  
Source: 1979 AC.
- R 322.66.1**  
Source: 1979 AC.
- R 322.66.2**  
Source: 1979 AC.
- R 322.70.1**  
Source: 1979 AC.
- R 322.71.1**  
Source: 1979 AC.
- R 322.71.2**  
Source: 1979 AC.
- R 322.72.1**  
Source: 1979 AC.
- R 322.73.1**  
Source: 2008 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**LAND AND WATER MANAGEMENT**  
**GREAT LAKES SUBMERGED LANDS**

- R 322.1001**  
Source: 1986 AACS.
- R 322.1002**  
Source: 1982 AACS.
- R 322.1003**  
Source: 1986 AACS.
- R 322.1004**  
Source: 1982 AACS.
- R 322.1005**  
Source: 1982 AACS.
- R 322.1006**  
Source: 1982 AACS.
- R 322.1007**  
Source: 1982 AACS.
- R 322.1008**  
Source: 1982 AACS.
- R 322.1009**  
Source: 1982 AACS.
- R 322.1010**

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Source: 1982 AACS.

**R 322.1011**

Source: 1986 AACS.

**R 322.1012**

Source: 1982 AACS.

**R 322.1013**

Source: 2012 AACS.

**R 322.1014**

Source: 2012 AACS.

**R 322.1015**

Source: 1982 AACS.

**R 322.1016**

Source: 1982 AACS.

**R 322.1017**

Source: 1982 AACS.

**R 322.1018**

Source: 1982 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**SURFACE WATER QUALITY DIVISION**

**GENERAL RULES**

**R 323.1**

Source: 1979 AACS.

**R 323.2**

Source: 2001 AACS.

**R 323.3**

Source: 1979 AACS.

**R 323.4**

Source: 2001 AACS.

**R 323.5**

Source: 2001 AACS.

**R 323.6**

Source: 1979 AACS.

**R 323.7**

Source: 1979 AACS.

**R 323.8**

Source: 2001 AACS.

**R 323.9**

Source: 2001 AACS.

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**R 323.10**  
Source: 1979 AACS.

**R 323.11**  
Source: 1979 AACS.

**R 323.12**  
Source: 1979 AACS.

**R 323.13**  
Source: 1979 AACS.

**R 323.14**  
Source: 1979 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL ASSISTANCE DIVISION**

**WASTE TREATMENT PLANT OPERATORS**

**R 323.21--R 323.29**  
Editor's note: Transferred to R 323.1251--R 323.1259.

**R 323.41--R 323.52**  
Editor's note: Transferred to R 323.1231--R 323.1242.

**R 323.101**  
Source : 1979 AC.

**DEPARTMENT OF NAUTURAL RESOURCES**

**NATURAL RESOURCES COMMISSION**

**STATE REVOLVING LOAN FUND**

**R 323.951**  
Source: 1989 AACS.

**R 323.952**  
Source: 1989 AACS.

**R 323.953**  
Source: 1989 AACS.

**R 323.954**  
Source: 1989 AACS.

**R 323.955**  
Source: 1989 AACS.

**R 323.956**  
Source: 1989 AACS.

**R 323.957**  
Source: 1989 AACS.

**R 323.958**

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Source: 1989 AACS.

**R 323.959**

Source: 1989 AACS.

**R 323.960**

Source: 1989 AACS.

**R 323.961**

Source: 1989 AACS.

**R 323.962**

Source: 1989 AACS.

**R 323.963**

Source: 1989 AACS.

**R 323.964**

Source: 1989 AACS.

**R 323.965**

Source: 1989 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**WATER RESOURCES PROTECTION**

**PART 1. GENERAL PROVISIONS**

**R 323.1001**

Source: 2001 AACS.

**R 323.1003**

Source: 2001 AACS.

**R 323.1009**

Source: 2001 AACS.

**PART 2. ORGANIZATION, OPERATIONS, PROCEDURES, AND HEARINGS**

**R 323.1011**

Source: 2001 AACS.

**R 323.1012**

Source: 2001 AACS.

**R 323.1014**

Source: 2001 AACS.

**R 323.1015**

Source: 2001 AACS.

**R 323.1017**

Source: 1997 AACS.

**R 323.1018**

Source: 2001 AACS.

**R 323.1021**

Source: 2001 AACS.

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**R 323.1023**  
Source: 2001 AACS.

**R 323.1025**  
Source: 2001 AACS.

**R 323.1027**  
Source: 1997 AACS.

**R 323.1031**  
Source: 1997 AACS.

**R 323.1032**  
Source: 1997 AACS.

**R 323.1033**  
Source: 1997 AACS.

**R 323.1034**  
Source: 1997 AACS.

**R 323.1035**  
Source: 1997 AACS.

**R 323.1036**  
Source: 1997 AACS.

**R 323.1038**  
Source: 1997 AACS.

**PART 4. WATER QUALITY STANDARDS**

**R 323.1041**  
Source: 2006 AACS.

**R 323.1043**  
Source: 2006 AACS.

**R 323.1044**  
Source: 2006 AACS.

**R 323.1050**  
Source: 2006 AACS.

**R 323.1051**  
Source: 1984 AACS.

**R 323.1053**  
Source: 2006 AACS.

**R 323.1055**  
Source: 2006 AACS.

**R 323.1057**  
Source: 1997 AACS.

**R 323.1058**  
Source: 1986 AACS.

**R 323.1060**

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Source: 2006 AACS.

**R 323.1062**

Source: 2006 AACS.

**R 323.1064**

Source: 2006 AACS.

**R 323.1065**

Source: 2006 AACS.

**R 323.1069**

Source: 2006 AACS.

**R 323.1070**

Source: 1986 AACS.

**R 323.1074**

Source: 1997 AACS.

**R 323.1075**

Source: 1986 AACS.

**R 323.1080**

Source: 1997 AACS.

**R 323.1082**

Source: 2006 AACS.

**R 323.1090**

Source: 2006 AACS.

**R 323.1091**

Source: 1997 AACS.

**R 323.1092**

Source: 2006 AACS.

**R 323.1096**

Source: 2006 AACS.

**R 323.1097**

Source: 2006 AACS.

**R 323.1098**

Source: 1998-2000 AACS.

**R 323.1099**

Source: 1997 AACS.

**R 323.1100**

Source: 2006 AACS.

**R 323.1103**

Source: 1997 AACS.

**R 323.1105**

Source: 2006 AACS.

**R 323.1110**

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Source: 1997 AACS.

**R 323.1115**

Source: 1997 AACS.

**R 323.1116**

Source: 2006 AACS.

**R 323.1117**

Source: 2006 AACS.

**PART 5. SPILLAGE OF OIL AND POLLUTING MATERIALS**

**R 323.1151**

Source: 2001 AACS.

**R 323.1152**

Source: 2001 AACS.

**R 323.1153**

Source: 2001 AACS.

**R 323.1154**

Source: 2001 AACS.

**R 323.1155**

Source: 2001 AACS.

**R 323.1156**

Source: 2001 AACS.

**R 323.1157**

Source: 2001 AACS.

**R 323.1158**

Source: 2001 AACS.

**R 323.1159**

Source: 2001 AACS.

**R 323.1161**

Source: 2001 AACS.

**R 323.1163**

Source: 2001 AACS.

**R 323.1164**

Source: 2001 AACS.

**R 323.1169**

Source: 2001 AACS.

**PART 6. CLEANING AGENTS AND WATER CONDITIONERS**

**R 323.1171**

Source: 2003 AACS.

**R 323.1172**

Source: 2003 AACS.

**R 323.1173**

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Source: 2003 AACS.

**R 323.1174**

Source: 2003 AACS.

**R 323.1175**

Source: 2003 AACS.

**R 323.1180**

Source: 2003 AACS.

**R 323.1181**

Source: 2003 AACS.

**PART 8. WATER QUALITY-BASED EFFLUENT LIMIT DEVELOPMENT FOR TOXIC SUBSTANCES**

**R 323.1201**

Source: 1997 AACS.

**R 323.1203**

Source: 2006 AACS.

**R 323.1205**

Source: 2006 AACS.

**R 323.1209**

Source: 2006 AACS.

**R 323.1211**

Source: 2006 AACS.

**R 323.1213**

Source: 2006 AACS.

**R 323.1217**

Source: 2006 AACS.

**R 323.1219**

Source: 2006 AACS.

**R 323.1221**

Source: 2006 AACS.

**PART 9. WASTEWATER REPORTING**

**R 323.1231**

Source: 1997 AACS.

**R 323.1232**

Source: 1997 AACS.

**R 323.1233**

Source: 1997 AACS.

**R 323.1234**

Source: 1997 AACS.

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**R 323.1235**  
Source: 1997 AACS.

**R 323.1236**  
Source: 1997 AACS.

**R 323.1237**  
Source: 1997 AACS.

**R 323.1238**  
Source: 1997 AACS.

**R 323.1239**  
Source: 1997 AACS.

**R 323.1240**  
Source: 1997 AACS.

**R 323.1241**  
Source: 1997 AACS.

**R 323.1242**  
Source: 1997 AACS.

**PART 10. TREATMENT PLANT OPERATORS**

**R 323.1251**  
Source: 1979 AC.

**R 323.1252**  
Source: 1979 AC.

**R 323.1253**  
Source: 1979 AC.

**R 323.1254**  
Source: 1979 AC.

**R 323.1255**  
Source: 1979 AC.

**R 323.1256**  
Source: 1979 AC.

**R 323.1257**  
Source: 1979 AC.

**R 323.1258**  
Source: 1979 AC.

**R 323.1259**  
Source: 1979 AC.

**PART 11. CONSTRUCTION GRANTS FOR WASTEWATER TREATMENT WORKS**

**R 323.1271**  
Source: 1998-2000 AACS.

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**R 323.1272**  
Source: 1998-2000 AACS.

**R 323.1273**  
Source: 1998-2000 AACS.

**R 323.1274**  
Source: 1998-2000 AACS.

**R 323.1275**  
Source: 1998-2000 AACS.

**R 323.1276**  
Source: 1998-2000 AACS.

**R 323.1277**  
Source: 1998-2000 AACS.

**R 323.1278**  
Source: 1998-2000 AACS.

**R 323.1279**  
Source: 1998-2000 AACS.

**R 323.1280**  
Source: 1998-2000 AACS.

**R 323.1281**  
Source: 1998-2000 AACS.

**R 323.1282**  
Source: 1998-2000 AACS.

**R 323.1283**  
Source: 1998-2000 AACS.

**R 323.1284**  
Source: 1998-2000 AACS.

**R 323.1285**  
Source: 1998-2000 AACS.

**R 323.1286**  
Source: 1998-2000 AACS.

**R 323.1287**  
Source: 1998-2000 AACS.

**R 323.1288**  
Source: 1998-2000 AACS.

**PART 13. FLOODPLAINS AND FLOODWAYS**

**R 323.1311**  
Source: 1996 AACS.

**R 323.1312**  
Source: 1996 AACS.

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**R 323.1313**  
Source: 1984 AACS.

**R 323.1314**  
Source: 2008 AACS.

**R 323.1315**  
Source: 1998-2000 AACS.

**R 323.1316**  
Source: 1996 AACS.

**R 323.1329**  
Source: 1996 AACS.

**PART 15. IRON ORE BENEFICIATION**

**R 323.1351**  
Source: 1979 AC.

**R 323.1352**  
Source: 1979 AC.

**R 323.1353**  
Source: 1979 AC.

**R 323.1354**  
Source: 1979 AC.

**PART 17. SOIL EROSION AND SEDIMENTATION CONTROL**

**R 323.1701**  
Source: 1998-2000 AACS.

**R 323.1702**  
Source: 1998-2000 AACS.

**R 323.1703**  
Source: 1998-2000 AACS.

**R 323.1704**  
Source: 1998-2000 AACS.

**R 323.1705**  
Source: 1998-2000 AACS.

**R 323.1706**  
Source: 1998-2000 AACS.

**R 323.1707**  
Source: 2007 AACS.

**R 323.1708**  
Source: 1998-2000 AACS.

**R 323.1709**  
Source: 1998-2000 AACS.

**R 323.1710**

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Source: 1998-2000 AACS.

**R 323.1711**

Source: 1998-2000 AACS.

**R 323.1712**

Source: 1998-2000 AACS.

**R 323.1713**

Source: 1998-2000 AACS.

**R 323.1714**

Source: 1998-2000 AACS.

**PART 21. WASTEWATER DISCHARGE PERMITS**

**R 323.2101**

Source: 2003 AACS.

**R 323.2102**

Source: 2005 AACS.

**R 323.2103**

Source: 2006 AACS.

**R 323.2104**

Source: 2006 AACS.

**R 323.2106**

Source: 2003 AACS.

**R 323.2108**

Source: 2006 AACS.

**R 323.2109**

Source: 2005 AACS.

**R 323.2111.**

Source: 2003 AACS.

**R 323.2112**

Source: 2003 AACS.

**R 323.2114**

Source: 2003 AACS.

**R 323.2115**

Source: 2003 AACS.

**R 323.2117**

Source: 2003 AACS.

**R 323.2118**

Source: 2003 AACS.

**R 323.2119**

Source: 2003 AACS.

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**R 323.2121**  
Source: 2003 AACS.

**R 323.2122**  
Source: 2003 AACS.

**R 323.2124**  
Source: 2003 AACS.

**R 323.2125**  
Source: 2003 AACS.

**R 323.2126**  
Source: 2003 AACS.

**R 323.2127**  
Source: 2003 AACS.

**R 323.2128**  
Source: 2003 AACS.

**R 323.2130**  
Source: 2003 AACS.

**R 323.2131**  
Source: 2003 AACS.

**R 323.2133**  
Source: 2003 AACS.

**R 323.2134**  
Source: 2003 AACS.

**R 323.2136**  
Source: 2003 AACS.

**R 323.2137**  
Source: 2003 AACS.

**R 323.2138**  
Source: 2003 AACS.

**R 323.2139**  
Source: 2003 AACS.

**R 323.2140**  
Source: 2003 AACS.

**R 323.2141**  
Source: 2003 AACS.

**R 323.2142**  
Source: 2003 AACS.

**R 323.2145**  
Source: 2003 AACS.

**R 323.2146**

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Source: 2003 AACS.

**R 323.2147**

Source: 2003 AACS.

**R 323.2149**

Source: 2003 AACS.

**R 323.2150**

Source: 2003 AACS.

**R 323.2151**

Source: 2003 AACS.

**R 323.2153**

Source: 2003 AACS.

**R 323.2154**

Source: 2003 AACS.

**R 323.2155**

Source: 2003 AACS.

**R 323.2159**

Source: 2003 AACS.

**R 323.2160**

Source: 2003 AACS.

**R 323.2161**

Source: 2006 AACS.

**R 323.2161a**

Source: 2003 AACS.

**R 323.2162**

Source: 1997 AACS.

**R 323.2163**

Source: 1997 AACS.

**R 323.2164**

Source: 1997 AACS.

**R 323.2165**

Source: 1997 AACS.

**R 323.2166**

Source: 1997 AACS.

**R 323.2167**

Source: 1997 AACS.

**R 323.2168**

Source: 1997 AACS.

**R 323.2169**

Source: 1997 AACS.

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**R 323.2170**  
Source: 1997 AACS.

**R 323.2172**  
Source: 1997 AACS.

**R 323.2173**  
Source: 1997 AACS.

**R 323.2174**  
Source: 1997 AACS.

**R 323.2175**  
Source: 1997 AACS.

**R 323.2176**  
Source: 1997 AACS.

**R 323.2177**  
Source: 1997 AACS.

**R 323.2178**  
Source: 1997 AACS.

**R 323.2179**  
Source: 1997 AACS.

**R 323.2180**  
Source: 1997 AACS.

**R 323.2181**  
Source: 1997 AACS.

**R 323.2182**  
Source: 1997 AACS.

**R 323.2183**  
Source: 1997 AACS.

**R 323.2184**  
Source: 1997 AACS.

**R 323.2185**  
Source: 1997 AACS.

**R 323.2186**  
Source: 1997 AACS.

**R 323.2189**  
Source: 2006 AACS.

**R 323.2190**  
Source: 2006 AACS.

**R 323.2191**  
Source: 2003 AACS.

**R 323.2192**  
Source: 2003 AACS.

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**R 323.2193**  
Source: 2003 AACS.

**R 323.2194**  
Source: 1998-2000 AACS.

**R 323.2195**  
Source: 2003 AACS.

**R 323.2196**  
Source: 2005 AACS.

**R 323.2197**  
Source: 2006 AACS.

**PART 22. GROUNDWATER QUALITY**

**R 323.2201**  
Source: 1998-2000 AACS.

**R 323.2202**  
Source: 1998-2000 AACS.

**R 323.2203**  
Source: 1998-2000 AACS.

**R 323.2204**  
Source: 1998-2000 AACS.

**R 323.2205**  
Source: 1998-2000 AACS.

**R 323.2206**  
Source: 1998-2000 AACS.

**R 323.2207**  
Source: 1998-2000 AACS.

**R 323.2208**  
Source: 1998-2000 AACS.

**R 323.2209**  
Source: 1998-2000 AACS.

**R 323.2210**  
Source: 1998-2000 AACS.

**R 323.2211**  
Source: 1998-2000 AACS.

**R 323.2212**  
Source: 1998-2000 AACS.

**R 323. 2213**  
Source: 1998-2000 AACS.

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**R 323.2214**  
Source: 1998-2000 AACS.

**R 323.2215**  
Source: 1998-2000 AACS.

**R 323.2216**  
Source: 1998-2000 AACS.

**R 323.2217**  
Source: 1998-2000 AACS.

**R 323.2218**  
Source: 1998-2000 AACS.

**R 323.2219**  
Source: 1998-2000 AACS.

**R 323.2220**  
Source: 1998-2000 AACS.

**R 323.2221**  
Source: 1998-2000 AACS.

**R 323.2222**  
Source: 1998-2000 AACS.

**R 323.2223**  
Source: 1998-2000 AACS.

**R 323.2224**  
Source: 1998-2000 AACS.

**R 323.2225**  
Source: 1998-2000 AACS.

**R 323.2226**  
Source: 1998-2000 AACS.

**R 323.2227**  
Source: 1998-2000 AACS.

**R 323.2229**  
Source: 1998-2000 AACS.

**R 323.2230**  
Source: 1998-2000 AACS.

**R 323.2231**  
Source: 1998-2000 AACS.

**R 323.2232**  
Source: 1998-2000 AACS.

**R 323.2233**  
Source: 1998-2000 AACS.

**R 323.2234**

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Source: 1998-2000 AACS.

**R 323.2235**

Source: 1998-2000 AACS.

**R 323.2237**

Source: 1998-2000 AACS.

**R 323.2238**

Source: 1998-2000 AACS.

**R 323.2240**

Source: 1998-2000 AACS.

**PART 23. PRETREATMENT**

**R 323.2301**

Source: 1995 AACS.

**R 323.2302**

Source: 1995 AACS.

**R 323.2303**

Source: 1995 AACS.

**R 323.2304**

Source: 1995 AACS.

**R 323.2305**

Source: 1995 AACS.

**R 323.2306**

Source: 1995 AACS.

**R 323.2307**

Source: 1995 AACS.

**R 323.2308**

Source: 1995 AACS.

**R 323.2309**

Source: 1995 AACS.

**R 323.2310**

Source: 1995 AACS.

**R 323.2311**

Source: 1995 AACS.

**R 323.2312**

Source: 1995 AACS.

**R 323.2313**

Source: 1995 AACS.

**R 323.2314**

Source: 1995 AACS.

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**R 323.2315**  
Source: 1995 AACS.

**R 323.2316**  
Source: 1995 AACS.

**R 323.2317**  
Source: 1995 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**SURFACE WATER QUALITY DIVISION**

**WATER RESOURCES PROTECTION**

**PART 24. LAND APPLICATION OF BIOSOLIDS**

**R 323.2401**  
Source: 1998-2000 AACS.

**R 323.2402**  
Source: 1998-2000 AACS.

**R 323.2403**  
Source: 1998-2000 AACS.

**R 323.2404**  
Source: 1998-2000 AACS.

**R 323.2405**  
Source: 1998-2000 AACS.

**R 323.2406**  
Source: 1998-2000 AACS.

**R 323.2407**  
Source: 1998-2000 AACS.

**R 323.2408**  
Source: 1998-2000 AACS.

**R 323.2409**  
Source: 1998-2000 AACS.

**R 323.2410**  
Source: 1998-2000 AACS.

**R 323.2411**  
Source: 1998-2000 AACS.

**R 323.2412**  
Source: 1998-2000 AACS.

**R 323.2413**  
Source: 1998-2000 AACS.

**R 323.2414**  
Source: 1998-2000 AACS.

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**R 323.2415**  
Source: 1998-2000 AACS.

**R 323.2416**  
Source: 1998-2000 AACS.

**R 323.2417**  
Source: 1998-2000 AACS.

**R 323.2418**  
Source: 1998-2000 AACS.

**SURFACE WATER QUALITY DIVISION**  
**WATER RESOURCES PROTECTION**  
**PART 30. WATER QUALITY TRADING**

**R 323.3001 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3002 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3003 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3004 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3005 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3006 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3007 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3008 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3009 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3010 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3011 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3012 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3013 Rescinded.**  
History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

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**R 323.3014 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3015 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3016 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3017 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3018 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3019 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3020 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3021 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3022 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3023 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3024 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3025 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3026 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**R 323.3027 Rescinded.**

History: 2002 AACS; 2013 MR 16, Eff. August 27, 2013.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**LAND AND WATER MANAGEMENT DIVISION**

**INLAND LAKES AND WETLANDS UNIT**

**AQUATIC NUISANCE CONTROL**

**R 323.3101**

Source: 2003 AACS.

**R 323.3102**

Source: 2003 AACS.

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**R 323.3103**  
Source: 2003 AACS.

**R 323.3104**  
Source: 2003 AACS.

**R 323.3105**  
Source: 2003 AACS.

**R 323.3106**  
Source: 2003 AACS.

**R 323.3107**  
Source: 2003 AACS.

**R 323.3108**  
Source: 2003 AACS.

**R 323.3109**  
Source: 2003 AACS.

**R 323.3110**  
Source: 2003 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**OFFICE OF ADMINISTRATIVE HEARINGS**  
**CONTESTED CASE AND DECLARATORY RULING PROCEDURES**  
**PART I. GENERAL PROVISIONS**

**R 324.1**  
Source: 2003 AACS.

**R 324.2**  
Source: 2003 AACS.

**R 324.3**  
Source: 2003 AACS.

**PART 2. COMMENCEMENT OF CONTESTED CASE PROCEEDING**

**R 324.21**  
Source: 2003 AACS.

**R 324.22**  
Source: 2003 AACS.

**R 324.23**  
Source: 2003 AACS.

**R 324.24**  
Source: 2003 AACS.

**PART 3. FINAL DECISION MAKER AND ADMINISTRATIVE LAW JUDGES**

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**R 324.31**  
Source: 2003 AACS.

**R 324.32**  
Source: 2003 AACS.

**R 324.33**  
Source: 2003 AACS.

**PART 4. PREHEARING CONFERENCES**

**R 324.41**  
Source: 2003 AACS.

**R 324.42**  
Source: 2003 AACS.

**R 324.43**  
Source: 2003 AACS.

**PART 5. PREHEARING MATTERS**

**R 324.51**  
Source: 2003 AACS.

**R 324.52**  
Source: 2003 AACS.

**R 324.53**  
Source: 2003 AACS.

**R 324.54**  
Source: 2003 AACS.

**R 324.55**  
Source: 2003 AACS.

**R 324.56**  
Source: 2003 AACS.

**R 324.57**  
Source: 2003 AACS.

**R 324.58**  
Source: 2003 AACS.

**R 324.59**  
Source: 2003 AACS.

**R 324.59a**  
Source: 2003 AACS.

**R 324.59b**  
Source: 2003 AACS.

**R 324.59c**  
Source: 2003 AACS.

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**R 324.59d**  
Source: 2003 AACS.

**R 324.59e**  
Source: 2003 AACS.

**PART 6. HEARINGS**

**R 324.61**  
Source: 2003 AACS.

**R 324.62**  
Source: 2003 AACS.

**R 324.63**  
Source: 2003 AACS.

**R 324.64**  
Source: 2003 AACS.

**R 324.65**  
Source: 2003 AACS.

**PART 7. DECISION PROCESS**

**R 324.71**  
Source: 2003 AACS.

**R 324.72**  
Source: 2003 AACS.

**R 324.73**  
Source: 2003 AACS.

**R 324.74**  
Source: 2003 AACS.

**R 324.75**  
Source: 2003 AACS.

**PART 8. DECLARATORY RULINGS**

**R 324.81**  
Source: 2003 AACS.

**GEOLOGICAL SURVEY DIVISION**

**OIL AND GAS OPERATIONS**

**PART 1. GENERAL PROVISIONS**

**R 324.101**  
Source: 1996 AACS.

**R 324.102**  
Source: 2002 AACS.

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**R 324.103**  
Source: 2002 AACS.

**R 324.104**  
Source: 1996 AACS.

**R 324.199**  
Source: 1996 AACS.

**PART 2. PERMITS TO DRILL AND OPERATE**

**R 324.201**  
Source: 1996 AACS.

**R 324.202**  
Source: 2002 AACS.

**R 324.203**  
Source: 2002 AACS.

**R 324.204**  
Source: 1996 AACS.

**R 324.205**  
Source: 1996 AACS.

**R 324.206**  
Source: 1996 AACS.

**R 324.207**  
Source: 2002 AACS.

**R 324.208**  
Source: 1996 AACS.

**R 324.209**  
Source: 1996 AACS.

**R 324.210**  
Source: 2002 AACS.

**R 324.211**  
Source: 2002 AACS.

**R 324.212**  
Source: 1996 AACS.

**R 324.213**  
Source: 2002 AACS.

**R 324.214**  
Source: 1996 AACS.

**R 324.215**  
Source: 1996 AACS.

**R 324.216**  
Source: 1996 AACS.

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**PART 3. SPACING AND LOCATION OF WELLS**

- R 324.301**  
Source: 1996 AACS.
- R 324.302**  
Source: 1996 AACS.
- R 324.303**  
Source: 1996 AACS.
- R 324.304**  
Source: 1996 AACS.

**PART 4. DRILLING AND WELL CONSTRUCTION**

- R 324.401**  
Source: 1996 AACS.
- R 324.402**  
Source: 1996 AACS.
- R 324.403**  
Source: 1996 AACS.
- R 324.404**  
Source: 1996 AACS.
- R 324.405**  
Source: 1996 AACS.
- R 324.406**  
Source: 1996 AACS.
- R 324.407**  
Source: 1996 AACS.
- R 324.408**  
Source: 1996 AACS.
- R 324.409**  
Source: 1996 AACS.
- R 324.410**  
Source: 1996 AACS.
- R 324.411**  
Source: 1996 AACS.
- R 324.412**  
Source: 1996 AACS.
- R 324.413**  
Source: 1996 AACS.
- R 324.414**  
Source: 1996 AACS.

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**R 324.415**  
Source: 1996 AACS.

**R 324.416**  
Source: 2001 AACS.

**R 324.417**  
Source: 1996 AACS.

**R 324.418**  
Source: 1996 AACS.

**R 324.419**  
Source: 1996 AACS.

**R 324.420**  
Source: 1996 AACS.

**R 324.421**  
Source: 1996 AACS.

**R 324.422**  
Source: 1996 AACS.

**PART 5. COMPLETION AND OPERATION**

**R 324.501**  
Source: 2002 AACS.

**R 324.502**  
Source: 1996 AACS.

**R 324.503**  
Source: 1996 AACS.

**R 324.504**  
Source: 2002 AACS.

**R 324.505**  
Source: 1996 AACS.

**R 324.506**  
Source: 1996 AACS.

**R 324.507**  
Source: 1996 AACS.

**R 324.508**  
Source: 1996 AACS.

**R 324.509**  
Source: 1996 AACS.

**R 324.510**  
Source: 1996 AACS.

**R 324.511**  
Source: 2002 AACS.

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**PART 6. PRODUCTION AND PRORATION**

**R 324.601**  
Source: 1996 AACS.

**R 324.602**  
Source: 1996 AACS.

**R 324.603**  
Source: 1996 AACS.

**R 324.604**  
Source: 1996 AACS.

**R 324.605**  
Source: 1996 AACS.

**R 324.606**  
Source: 1996 AACS.

**R 324.607**  
Source: 1996 AACS.

**R 324.608**  
Source: 1996 AACS.

**R 324.609**  
Source: 1996 AACS.

**R 324.610**  
Source: 1996 AACS.

**R 324.611**  
Source: 1996 AACS.

**R 324.612**  
Source: 1996 AACS.

**R 324.613**  
Source: 1996 AACS.

**PART 7. DISPOSAL OF OIL OR GAS FIELD WASTE, OR BOTH**

**R 324.701**  
Source: 1996 AACS.

**R 324.702**  
Source: 1996 AACS.

**R 324.703**  
Source: 1996 AACS.

**R 324.704**  
Source: 1996 AACS.

**R 324.705**  
Source: 1996 AACS.

**PART 8. INJECTION WELLS**

- R 324.801**  
Source: 1996 AACS.
- R 324.802**  
Source: 1996 AACS.
- R 324.803**  
Source: 1996 AACS.
- R 324.804**  
Source: 1996 AACS.
- R 324.805**  
Source: 1996 AACS.
- R 324.806**  
Source: 1996 AACS.
- R 324.807**  
Source: 1996 AACS.
- R 324.808**  
Source: 1996 AACS.

**PART 9. PLUGGING**

- R 324.901**  
Source: 1996 AACS.
- R 324.902**  
Source: 1996 AACS.
- R 324.903**  
Source: 1996 AACS.
- R 324.904**  
Source: 1996 AACS.

**PART 10. WELL SITES AND SURFACE FACILITIES; PREVENTION OF FIRES, POLLUTION, AND  
DANGER TO, OR DESTRUCTION OF, PROPERTY OR LIFE**

- R 324.1001**  
Source: 1996 AACS.
- R 324.1002**  
Source: 1996 AACS.
- R 324.1003**  
Source: 1996 AACS.
- R 324.1004**  
Source: 1996 AACS.
- R 324.1005**  
Source: 1996 AACS.

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**R 324.1006**  
Source: 1996 AACS.

**R 324.1007**  
Source: 1996 AACS.

**R 324.1008**  
Source: 2001 AACS.

**R 324.1009**  
Source: 1996 AACS.

**R 324.1010**  
Source: 1996 AACS.

**R 324.1011**  
Source: 1996 AACS.

**R 324.1008**  
Source: 2001 AACS.

**R 324.1012**  
Source: 1996 AACS.

**R 324.1014**  
Source: 2002 AACS.

**R 324.1015**  
Source: 1996 AACS.

**R 324.1016**  
Source: 1996 AACS.

**PART 11. HYDROGEN SULFIDE MANAGEMENT**

**R 324.1101**  
Source: 1996 AACS.

**R 324.1102**  
Source: 1996 AACS.

**R 324.1103**  
Source: 2001 AACS.

**R 324.1104**  
Source: 1996 AACS.

**R 324.1105**  
Source: 2001 AACS.

**R 324.1106**  
Source: 1996 AACS.

**R 324.1107**  
Source: 2002 AACS.

**R 324.1108**  
Source: 1996 AACS.

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- R 324.1109**  
Source: 1996 AACS.
- R 324.1110**  
Source: 2001 AACS.
- R 324.1111**  
Source: 1996 AACS.
- R 324.1112**  
Source: 1996 AACS.
- R 324.1113**  
Source: 2001 AACS.
- R 324.1114**  
Source: 1996 AACS.
- R 324.1115**  
Source: 1996 AACS.
- R 324.1116**  
Source: 1996 AACS.
- R 324.1117**  
Source: 1996 AACS.
- R 324.1118**  
Source: 1996 AACS.
- R 324.1119**  
Source: 1996 AACS.
- R 324.1120**  
Source: 1996 AACS.
- R 324.1121**  
Source: 1996 AACS.
- R 324.1122**  
Source: 2002 AACS.
- R 324.1123**  
Source: 2002 AACS.
- R 324.1124**  
Source: 1996 AACS.
- R 324.1125**  
Source: 2001 AACS.
- R 324.1126**  
Source: 1996 AACS.
- R 324.1127**  
Source: 1996 AACS.
- R 324.1128**  
Source: 1996 AACS.

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**R 324.1129**  
Source: 2001 AACS.

**R 324.1130**  
Source: 2001 AACS.

**PART 12. HEARINGS**

**R 324.1201**  
Source: 1996 AACS.

**R 324.1202**  
Source: 1996 AACS.

**R 324.1203**  
Source: 1996 AACS.

**R 324.1204**  
Source: 1996 AACS.

**R 324.1205**  
Source: 1996 AACS.

**R 324.1206**  
Source: 1996 AACS.

**R 324.1207**  
Source: 1996 AACS.

**R 324.1208**  
Source: 1996 AACS.

**R 324.1209**  
Source: 1996 AACS.

**R 324.1210**  
Source: 1996 AACS.

**R 324.1211**  
Source: 1996 AACS.

**R 324.1212**  
Source: 1996 AACS.

**PART 13. ENFORCEMENT**

**R 324.1301**  
Source: 2002 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL ASSISTANCE DIVISION**

**ENVIRONMENTAL LABORATORY RECOGNITION PROGRAM**

**R 324.1401**  
Source: 2011 AACS.

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**R 324.1402**  
Source: 2011 AACS.

**R 324.1403**  
Source: 2011 AACS.

**R 324.1404**  
Source: 2011 AACS.

**R 324.1405**  
Source: 2011 AACS.

**R 324.1406**  
Source: 2011 AACS.

**R 324.1407**  
Source: 2011 AACS.

**R 324.1408**  
Source: 2011 AACS.

**R 324.1409**  
Source: 2011 AACS.

**R 324.1410**  
Source: 2011 AACS.

**R 324.1411**  
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**R 324.1412**  
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**R 324.1413**  
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**R 324.1414**  
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**R 324.1415**  
Source: 2011 AACS.

**R 324.1416**  
Source: 2011 AACS.

**R 324.1417**  
Source: 2011 AACS.

**R 324.1418**  
Source: 2011 AACS.

**R 324.1419**  
Source: 2011 AACS.

**R 324.1420**  
Source: 2011 AACS.

**R 324.1421**

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Source: 2011 AACS.

**R 324.1422**

Source: 2011 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL ASSISTANCE DIVISION**

**CLEAN CORPORATE CITIZEN PROGRAM**

**R 324.1501 Rescinded.**

History: 2000 AACS; 2006 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1502 Rescinded.**

History: 2000 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1503 Rescinded.**

History: 2000 AACS; 2006 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1504 Rescinded.**

History: 2000 AACS; 2006 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1505 Rescinded.**

History: 2000 AACS; 2006 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1506 Rescinded.**

History: 2000 AACS; 2006 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1507 Rescinded.**

History: 2000 AACS; 2006 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1508 Rescinded.**

History: 2000 AACS; 2006 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1509. Rescinded.**

History: 2000 AACS; 2006 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1509a Rescinded.**

History: 2006 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1510 Rescinded.**

History: 2000 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**R 324.1511 Rescinded.**

History: 2000 AACS; rescinded 2013 MR 2, Repeal Eff. Dec. 31, 2012.

**WASTE MANAGEMENT DIVISION**

**PART 5. SPILLAGE OF OIL AND POLLUTION MATERIALS**

**R 324.2001**

Source: 2001 AACS.

**R 324.2002**

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Source: 2001 AACS.

**R 324.2003**

Source: 2001 AACS.

**R 324.2004**

Source: 2001 AACS.

**R 324.2005**

Source: 2001 AACS.

**R 324.2006**

Source: 2001 AACS.

**R 324.2007**

Source: 2001 AACS.

**R 324.2008**

Source: 2001 AACS.

**R 324.2009**

Source: 2001 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**SURFACE WATER QUALITY DIVISION**

**CLEAN MICHIGAN INITIATIVE NONPOINT SOURCE POLLUTION CONTROL GRANTS**

**R 324.8801**

Source: 1998-2000 AACS.

**R 324.8802**

Source: 1998-2000 AACS.

**R 324.8803**

Source: 1998-2000 AACS.

**R 324.8804**

Source: 1998-2000 AACS.

**R 324.8805**

Source: 1998-2000 AACS.

**R 324.8806**

Source: 1998-2000 AACS.

**R 324.8807**

Source: 1998-2000 AACS.

**R 324.8808**

Source: 1998-2000 AACS.

**R 324.8809**

Source: 1998-2000 AACS.

**R 324.8810**

Source: 1998-2000 AACS.

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**MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY**

**SURFACE WATER QUALITY DIVISION**

**CLEAN WATER FUND**

**R 324.8901**  
Source: 1998-2000 AACS.

**R 324.8902**  
Source: 1998-2000 AACS.

**R 324.8903**  
Source: 1998-2000 AACS.

**R 324.8904**  
Source: 1998-2000 AACS.

**R 324.8905**  
Source: 1998-2000 AACS.

**R 324.8906**  
Source: 1998-2000 AACS.

**R 324.8907**  
Source: 1998-2000 AACS.

**R 324.8908**  
Source: 1998-2000 AACS.

**R 324.8909**  
Source: 1998-2000 AACS.

**R 324.8910**  
Source: 1998-2000 AACS.

**R 324.8911**  
Source: 1998-2000 AACS.

**R 324.8912**  
Source: 1998-2000 AACS.

**R 324.8913**  
Source: 1998-2000 AACS.

**R 324.8914**  
Source: 1998-2000 AACS.

**R 324.8915**  
Source: 2001 AACS.

**R 324.8916**  
Source: 1998-2000 AACS.

**R 324.8917**  
Source: 1998-2000 AACS.

**R 324.8918**

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**Source:** 1998-2000 AACS.

**R 324.8919**

**Source:** 1998-2000 AACS.

**R 324.8920**

**Source:** 1998-2000 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**ENVIRONMENTAL ASSISTANCE DIVISION**

**SMALL BUSINESS POLLUTION PREVENTION ASSISTANCE LOAN**

**R 324.14501 Definitions.**

Rule 1. As used in these rules:

- (a) "Applicant" means a business that applies for a small business pollution prevention loan.
- (b) "Department" means the department of environmental quality.
- (c) "Director" means the director of the department or his or her designated representative.
- (d) "Eligible pollution prevention project" means a pollution prevention project that meets the criteria in these rules.
- (e) "Energy usage" means the use of nonrenewable resources to support business operations, including electricity, water, and natural gas.
- (f) "Fixed asset" means a permanent asset that is not consumed or converted into cash or its equivalent during a 12-month period.
- (g) "Fund," as defined in part 145 of 1994 PA 451, MCL 324.14513 et seq., means the small business pollution prevention assistance revolving loan fund.
- (h) "Lender agreement" means a binding agreement between a lending institution and the department that sets forth the terms and conditions for a lending institution to make loans and otherwise participate in the small business pollution prevention loan program.
- (i) "Lending institution" means a bank, out-of-state bank, or national bank, foreign bank branch, association, savings bank, or credit union organized under the laws of this state, another state, the District of Columbia, the United States, or a territory or protectorate of the United States that has entered into a lender agreement with the department.
- (j) "Loan agreement" means a written contract or agreement between a lending institution and a loan recipient that describes the terms of the small business pollution prevention loan. (k) "Loan recipient" means a small business that has been approved for and issued a small business pollution prevention loan.
- (l) "RETAP audit" means a pollution prevention assessment conducted by engineers, scientists, and other qualified professionals participating in the retired engineer technical assistance program established under part 145 of 1994 PA 451, MCL 324.14501 et seq.
- (m) "Small business pollution prevention loan" means a low-interest loan to a small business to finance an eligible pollution prevention project as provided for under these rules and part 145 of 1994 PA 451, MCL 324.14513 et seq.
- (n) "Small business pollution prevention loan program" means the program the department administers to provide small business pollution prevention loans under these rules.
- (o) "Supplemental agreement" means a binding agreement between an applicant and the department that sets forth the terms and conditions for the applicant to receive funds and otherwise participate in the small business pollution prevention loan program.
- (p) Terms used in these rules have the same meaning as those defined and used in part 145 of 1994 PA 451.

History: 1998-2000 AACS; 2013 MR 18, Eff. Sept. 19, 2013

**R 324.14502**

**Source:** 1998-2000 AACS.

**R 324.14503 Applicant eligibility.**

Rule 3. (1) An applicant for a small business pollution prevention loan must meet all of the following requirements:

- (a) Qualify as a small business as defined in MCL 324.14501(j).
- (b) Apply for a small business pollution prevention loan in coordination with a lending institution under these rules.
- (c) Propose to utilize the small business pollution prevention loan to undertake an eligible pollution prevention project in Michigan.

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- (d) Commence the proposed pollution prevention project within 180 days of receipt of a loan.
- (e) Not have received a loan as described in these rules within the prior 3-year period.
- (2) To be eligible for a loan from the fund for a qualified agricultural energy production system, an applicant shall also meet requirements in MCL 324.14513(5).

History: 1998-2000 AACCS; 2013 MR 18, Eff. Sept. 19, 2013

**R 324.14504 Eligible pollution prevention project.**

Rule 4. (1) An eligible pollution prevention project shall directly result in the reduction or elimination of environmental waste generated, energy used or water, or hazards to public health associated with environmental waste at the small business and shall be 1 or more of the following:

- (a) A pollution prevention recommendation made in a RETAP audit.
- (b) A pollution prevention expenditure at the small business, including an expenditure for any of the following:
  - (i) Equipment or technology modifications.
  - (ii) Process or procedure modifications.
  - (iii) Reformulation, reclamation, or redesign of products.
  - (iv) Substitution of raw materials.
  - (v) Improvements in housekeeping, maintenance, or inventory control.
  - (vi) Pollution prevention training of employees.
  - (vii) On-site energy conservation studies or specifications.
  - (viii) On-site energy efficiency projects.
  - (ix) On-site water conservation projects.
  - (x) Qualified agricultural energy production systems.

(2) The following projects or expenditures are not eligible pollution prevention projects:

- (a) Costs incurred before the effective date of the loan agreement.
- (b) Refinancing pre-existing obligations or debt.
- (c) Financing building or construction costs that are not integral to the project.
- (d) Financing salaries, wages, benefits, travel, or operating costs other than those listed in subrule (1)(b) of this rule of the applicant business.
- (e) Taxes, attorney fees, permits or licenses, or land acquisition.
- (f) Projects or expenditures designed to increase process output or production.

History: 1998-2000 AACCS; 2013 MR 18, Eff. Sept. 19, 2013

**R 324.14505 Loan application process.**

Rule 5. (1) A small business shall file an application for a small business pollution prevention loan on an application form provided by the department.

(2) The application shall include all of the following information:

- (a) Applicant and lending institution contact information.
- (b) A description of the pollution prevention project, which provides sufficient detail to properly evaluate the proposed project and determine whether it meets the criteria of R 324.14504.
- (c) The expected reduction in environmental waste, water, or energy used.
- (d) A project implementation schedule.
- (e) The small business pollution prevention loan amount.
- (f) Certification that all necessary construction permits and operating licenses have been obtained, or will be obtained, under applicable laws and regulations.

(3) The lending institution or applicant shall submit the completed loan application and supporting documentation to the department for approval. At a minimum, supporting documentation shall include all of the following:

- (a) Written cost estimate(s) for all project costs.
- (b) A loan commitment letter from the lending institution including the following information:
  - (i) A commitment to participate in the small business pollution prevention loan program with the department.
  - (ii) The lending institution's federal tax identification number.
  - (iii) The conclusion that the loan recipient can service the debt of the full loan amount requested.
  - (iv) A description of the loan term, interest rate on the lending institution loan portion, and the collateral to be taken as security for the loan.

(4) A lending institution shall not award a small business pollution prevention loan until it receives a notice from the department that the project described in the application is an eligible pollution prevention project.

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(5) A lending institution shall execute a small business pollution prevention loan under terms in the loan agreement and the lender agreement.

(6) The applicant shall execute a small business pollution prevention loan under terms in the loan agreement and the supplemental agreement.

History: 1998-2000 AACCS; 2013 MR 18, Eff. Sept. 19, 2013

**R 324.14506 Lending institution responsibilities.**

Rule 6. (1) A lending institution shall enter into a lender agreement with the department.

(2) A lender agreement shall provide for all of the following:

(a) A lending institution may make a small business pollution prevention loan to a loan recipient with participation from the fund not to exceed the amount specified in MCL 324.14513(6).

(b) The total amount of the loan shall be shared equally by the lending institution and the fund, unless the director increases the fund's share of the loan to ensure that the fund's interest rate of return is not less than 0%.

(c) The lending institution shall notify the department of the effective interest rate being assessed to the applicant, including the interest rate assessed as part of the fund's share and the interest rate assessed as part of the lending institution's share.

(d) The effective interest rate that the loan recipient pays on the full amount of the loan under the loan agreement shall not exceed 5%.

(e) The lending institution shall provide an executed copy of the loan agreement to the department.

(f) Only appropriate and reasonable costs or fees associated with processing the loan are eligible for reimbursement as part of the loan.

(g) The lending institution will remit principal and interest payments not less frequently than on a quarterly basis to the fund until the loan is repaid in full.

(h) The lending institution will pursue the collection of all defaulted loans until brought current, collected in full, reduced to a judgment, or settled with the concurrence of the department.

(i) The lending institution will consider loan recipients who fail to complete the project to be in default of the loan. This provision shall be included in all loan agreements.

History: 1998-2000 AACCS; 2013 MR 18, Eff. Sept. 19, 2013

**R 324.14507 Small business loan recipient responsibilities.**

Rule 7. (1) In addition to any financial provisions required by the lending institution, within 90 days of the project eligibility determination, the small business loan recipient shall enter into a supplemental agreement with the department.

(2) A supplemental agreement shall provide for all of the following:

(a) Initiate work on the pollution prevention project within 180 days of signing the loan documents or supplemental agreement.

(b) Secure qualified personnel or contractors, or both, to complete the pollution prevention activities specified in the loan application.

(c) Notify the department in writing within 30 days of project completion.

(d) Within 90 days of project completion, submit to the department a final report upon project completion describing the pollution prevention benefits attained, including a demonstration of the expected reduction in environmental waste, water, or energy usage.

(e) Obtain written department approval of any amendments to the proposed project, before making the change.

(f) Maintain project records and documentation under generally accepted accounting principles and practices for a minimum of 3 years after the project is completed.

(g) Maintain all of the following documentation at the loan recipient's business:

(i) Copies of invoices and evidence of payment of invoiced expenditures.

(ii) Information pertinent to the project implementation as agreed to in the loan application.

(iii) Evidence that the project was implemented in compliance with applicable rules and regulations.

(h) Upon completion, operate the project for pollution prevention purposes and in accordance with applicable environmental laws and regulations.

(3) Upon reasonable notice, the department or its duly authorized representatives shall have access to examine the pollution prevention project and the records or documents maintained by the small business under these rules.

History: 1998-2000 AACCS; 2013 MR 18, Eff. Sept. 19, 2013

**R 324.14508 Project review; approval process; other actions.**

Rule 8. (1) The department shall process loan applications on an as-received basis.

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(2) The department shall determine whether the application and supporting documentation meet the requirements of these rules within 30 days of receipt of a complete application.

(3) The department shall notify the lending institution and the applicant, in writing, within 14 days of making its determination.

(4) A loan recipient shall not proceed with the pollution prevention project until the recipient is notified in writing by the lending institution to proceed.

(5) The department's determination of project eligibility is valid for 90 days from the date of notification.

(6) The lending institution or the loan recipient shall promptly notify the department, in writing, of any substantive change to an eligible pollution prevention project before expenditure or encumbrance of any loan funds.

(7) The department will remit payment for its share of the loan from the fund to the lending institution within 30 days from the date of receipt of the executed loan agreement.

(8) In the case of an ineligibility determination, the department shall provide the applicant with written notice of the reason for the determination. There is no formal appeal of the department's loan decision.

(9) Subject to the provisions of R 324.14503(1)(e), a small business can reapply for a loan at any time.

(10) If the department or the lending institution determines that a loan recipient has defaulted on any agreements signed or obligations pursuant to this part, in addition to the actions specified in the lender and supplemental agreements, the department may take any legal actions available to remedy the default.

History: 1998-2000 AACS; 2013 MR 18, Eff. Sept. 19, 2013

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**STORAGE TANK DIVISION**

**MICHIGAN UNDERGROUND STORAGE TANK QUALIFIED  
CONSULTANTS AND CERTIFIED PROFESSIONALS**

**R 324.21501**

Source: 2012 AACS.

**R 324.21502**

Source: 2012 AACS.

**R 324.21503**

Source: 2012 AACS.

**R 324.21504**

Source: 2012 AACS.

**R 324.21505**

Source: 2012 AACS.

**R 324.21506**

Source: 2012 AACS.

**R 324.21507**

Source: 2012 AACS.

**R 324.21508**

Source: 2012 AACS.

**R 324.21509**

Source: 2012 AACS.

**R 324.21510**

Source: 2012 AACS.

**R 324.21511**

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Source: 2012 AACS.

**R 324.21512**

Source: 2012 AACS.

**R 324.21513**

Source: 2012 AACS.

**R 324.21514**

Source: 2012 AACS.

**R 324.21515**

Source: 2012 AACS.

**R 324.21516**

Source: 2012 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**BUREAU OF DISEASE CONTROL AND LABORATORY SERVICES**  
**CONTROL OF COMMUNICABLE DISEASES**

**R 325.1**

Source: 1998-2000 AACS.

**R 325.2**

Source: 1998-2000 AACS.

**R 325.3**

Source: 1998-2000 AACS.

**R 325.4**

Source: 1998-2000 AACS.

**R 325.5**

Source: 1998-2000 AACS.

**R 325.6**

Source: 1998-2000 AACS.

**R 325.7**

Source: 1998-2000 AACS.

**R 325.8**

Source: 1998-2000 AACS.

**R 325.9**

Source: 1998-2000 AACS.

**R 325.10**

Source: 1998-2000 AACS.

**R 325.11**

Source: 1998-2000 AACS.

**R 325.12**

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**Source:** 1998-2000 AACS.

**R 325.13**

**Source:** 1998-2000 AACS.

**R 325.14**

**Source:** 1998-2000 AACS.

**R 325.15**

**Source:** 1998-2000 AACS.

**R 325.16**

**Source:** 1998-2000 AACS.

**R 325.17**

**Source:** 1998-2000 AACS.

**R 325.18**

**Source:** 1998-2000 AACS.

**R 325.19**

**Source:** 1998-2000 AACS.

**R 325.20**

**Source:** 1998-2000 AACS.

**R 325.21**

**Source:** 1998-2000 AACS.

**R 325.22**

**Source:** 1998-2000 AACS.

**R 325.23**

**Source:** 1998-2000 AACS.

**R 325.24**

**Source:** 1998-2000 AACS.

**R 325.25**

**Source:** 1998-2000 AACS.

**R 325.26**

**Source:** 1998-2000 AACS.

**R 325.27**

**Source:** 1998-2000 AACS.

**R 325.28**

**Source:** 1998-2000 AACS.

**R 325.29**

**Source:** 1998-2000 AACS.

**R 325.30**

**Source:** 1998-2000 AACS.

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- R 325.31**  
Source: 1998-2000 AACS.
  
- R 325.32**  
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- R 325.33**  
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- R 325.34**  
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- R 325.35**  
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- R 325.36**  
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- R 325.38**  
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- R 325.39**  
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- R 325.40**  
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- R 325.41**  
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- R 325.42**  
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- R 325.43**  
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- R 325.44**  
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- R 325.45**  
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- R 325.46**  
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- R 325.47**  
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- R 325.48**  
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- R 325.49**  
Source: 1998-2000 AACS.

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**R 325.50**  
Source: 1998-2000 AACS.

**R 325.51**  
Source: 1998-2000 AACS.

**R 325.52**  
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**R 325.53**  
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**R 325.56**  
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**R 325.57**  
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**R 325.58**  
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**R 325.59**  
Source: 1998-2000 AACS.

**R 325.60**  
Source: 2010 AACS.

**R 325.61**  
Source: 2005 AACS.

**R 325.62**  
Source: 2005 AACS.

**R 325.63**  
Source: 2005 AACS.

**R 325.64**  
Source: 2005 AACS.

**R 325.65**  
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**R 325.66**  
Source: 2005 AACS.

**R 325.67**  
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**R 325.68**  
Source: 2005 AACS.

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**R 325.70**  
Source: 1997 AACS.

**R 325.71**  
Source: 2009 AACS.

**R 325.72**  
Source: 2009 AACS.

**R 325.73**  
Source: 2007 AACS.

**R 325.74**  
Source: 2009 AACS.

**R 325.75**  
Source: 2009 AACS.

**R 325.80**  
Source: 1997 AACS.

**R 325.81**  
Source: 1997 AACS.

**R 325.90**  
Source: 1997 AACS.

**R 325.100**  
Source: 1997 AACS.

**R 325.101**  
Source: 1997 AACS.

**R 325.102**  
Source: 1997 AACS.

**R 325.103**  
Source: 1997 AACS.

**R 325.104**  
Source: 1997 AACS.

**R 325.106**  
Source: 1997 AACS.

**R 325.107**  
Source: 1997 AACS.

**R 325.110**  
Source: 1997 AACS.

**R 325.115**  
Source: 1997 AACS.

**R 325.120**  
Source: 1997 AACS.

**R 325.121**  
Source: 1997 AACS.

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**BUREAU OF HEALTH POLICY, PLANNING AND ACCESS**

**EMS AND TRAUMA SERVICES SECTION**

**STATEWIDE TRAUMA SYSTEM**

**PART 1. GENERAL PROVISIONS**

**R 325.125**  
Source: 2007 AACS.

**R 325.126**  
Source: 2007 AACS.

**R 325.127**  
Source: 2007 AACS.

**R 325.128**  
Source: 2007 AACS.

**R 325.129**  
Source: 2009 AACS.

**R 325.130**  
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**R 325.131**  
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**R 325.132**  
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**R 325.133**  
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**R 325.134**  
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**R 325.135**  
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**R 325.136**  
Source: 2007 AACS.

**R 325.137**  
Source: 2007 AACS.

**R 325.138**  
Source: 2007 AACS.

**FAMILY PLANNING SERVICES**

**R 325.151**  
Source: 1979 AC.

**R 325.152**  
Source: 1979 AC.

**R 325.153**  
Source: 1979 AC.

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**R 325.154**  
Source: 1979 AC.

**R 325.155**  
Source: 1979 AC.

**R 325.156**  
Source: 1979 AC.

**HEALTH LEGISLATION AND POLICY DEVELOPMENT**  
**MICHIGAN CARE IMPROVEMENT REGISTRY**

**R 325.161**  
Source: 2012 AACS.

**R 325.162**  
Source: 2012 AACS.

**R 325.163**  
Source: 2012 AACS.

**R 325.163a**  
Source: 2012 AACS.

**R 325.164**  
Source: 1997 AACS.

**R 325.165**  
Source: 2009 AACS.

**R 325.166**  
Source: 2012 AACS.

**R 325.167**  
Source: 1997 AACS.

**R 325.168**  
Source: 2009 AACS.

**R 325.169**  
Source: 1997 AACS.

**BUREAU OF INFECTIOUS DISEASE CONTROL**  
**COMMUNICABLE AND RELATED DISEASES**

**R 325.171**  
Source: 2009 AACS.

**R 325.172**  
Source: 2009 AACS.

**R 325.173**  
Source: 2009 AACS.

**R 325.175**

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Source: 1993 AACS.

**R 325.176**

Source: 2009 AACS.

**R 325.177**

Source: 1993 AACS.

**R 325.178**

Source: 1998-2000 AACS.

**R 325.179**

Source: 2009 AACS.

**R 325.179a**

Source: 2009 AACS.

**R 325.179b**

Source: 2009 AACS.

**R 325.180**

Source: 2009 AACS.

**R 325.181**

Source: 1993 AACS.

**R 325.182**

Source: 2010 AACS.

**R 325.199**

Source: 1993 AACS.

**RABIES**

**R 325.201**

Source: 1997 AACS.

**OFFICE OF THE DIRECTOR**  
**CONVALESCENT SERA AND VACCINES**

**R 325.210**

Source: 1997 AACS.

**R 325.211**

Source: 1997 AACS.

**R 325.212**

Source: 1997 AACS.

**R 325.213**

Source: 1997 AACS.

**R 325.214**

Source: 1997 AACS.

**R 325.215**

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**R 325.216**  
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**R 325.223**  
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**R 325.224**  
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**POLIOMYELITIS VACCINE**

**R 325.231**  
Source: 1997 AACS.

**R 325.232**  
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**R 325.233**  
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**DIABETES RESEARCH**

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**R 325.271**  
Source: 1997 AACS.

**R 325.272**  
Source: 1997 AACS.

**R 325.273**  
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**R 325.274**  
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**R 325.275**  
Source: 1997 AACS.

**KIDNEY TRAINING**

**R 325.281**  
Source: 1997 AACS.

**R 325.282**  
Source: 1997 AACS.

**R 325.283**  
Source: 1997 AACS.

**R 325.284**  
Source: 1997 AACS.

**BUREAU OF EPIDEMIOLOGY**

**DIVISION OF ENVIRONMENTAL HEALTH**

**REPORTING OF TRAUMATIC INJURIES**

**R 325.301**  
Source: 2010 AACS.

**R 325.302**  
Source: 2010 AACS.

**R 325.303**  
Source: 2010 AACS.

**R 325.304**  
Source: 2010 AACS.

**R 325.305**  
Source: 2010 AACS.

**R 325.306**  
Source: 2010 AACS.

**BUREAU OF PERSONAL HEALTH SERVICES**

**MIDWIVES**

**R 325.321**  
Source: 1997 AACS.

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**R 325.322**  
Source: 1997 AACS.

**R 325.323**  
Source: 1997 AACS.

**R 325.324**  
Source: 1997 AACS.

**R 325.325**  
Source: 1997 AACS.

**R 325.326**  
Source: 1997 AACS.

**R 325.327**  
Source: 1997 AACS.

**R 325.328**  
Source: 1997 AACS.

**R 325.329**  
Source: 1997 AACS.

**R 325.330**  
Source: 1997 AACS.

**OFFICE OF THE DIRECTOR**  
**MINIMUM STANDARDS FOR GROUP DAY CARE OF CHILDREN**

**R 325.341**  
Source: 1997 AACS.

**R 325.342**  
Source: 1997 AACS.

**R 325.343**  
Source: 1997 AACS.

**COMMUNICABLE DISEASES IN CHILDREN IN GROUP RESIDENCE,  
CARE, EDUCATION, AND CAMPING**

**R 325.351**  
Source: 1997 AACS.

**R 325.352**  
Source: 1997 AACS.

**SPECIAL AGENTS OF BUREAU OF RECORDS AND STATISTICS**

**R 325.361**  
Source: 1997 AACS.

**CONSTRUCTION AND ALTERATION OF PUBLIC SWIMMING POOLS**

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**R 325.391--R 325.406**

**Source:** 1944 AC; 1954 AC; rescinded 1954 ACS 67, Eff. Mar. 24, 1971.

**OUTHOUSES**

**R 325.421**

**Source:** 1979 AC.

**R 325.422**

**Source:** 1979 AC.

**R 325.423**

**Source:** 1979 AC.

**R 325.424**

**Source:** 1979 AC.

**R 325.425**

**Source:** 1979 AC.

**R 325.426**

**Source:** 1979 AC.

**BARBER SHOPS**

**R 325.451**

**Source:** 1997 AACS.

**FOOD ESTABLISHMENTS**

**R 325.592**

**Source:** 1997 AACS.

**R 325.593**

**Source:** 1997 AACS.

**MICHIGAN MILK ORDINANCE**

**R 325.681--R 325.717**

**Source:** 1979 AC.

Editor's note: At the request of the department of public health, the above rules have been omitted from the Michigan Administrative Code of 1979. For text of these rules, see the Michigan Administrative Code of 1954, pp. 2295-2303.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**WATER BUREAU**

**SANITARY STANDARDS FOR SCHOOLS**

**R 325.721**

**Source:** 2005 AACS.

**R 325.722**

**Source:** 2005 AACS.

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**R 325.723**  
Source: 2005 AACS.

**R 325.724**  
Source: 2005 AACS.

**R 325.725**  
Source: 2005 AACS.

**R 325.726**  
Source: 2005 AACS.

**R 325.727**  
Source: 2005 AACS.

**R 325.728**  
Source: 2005 AACS.

**R 325.729**  
Source: 2005 AACS.

**R 325.730**  
Source: 2005 AACS.

**R 325.731**  
Source: 2005 AACS.

**R 325.732**  
Source: 2005 AACS.

**R 325.733**  
Source: 2005 AACS.

**R 325.734**  
Source: 2005 AACS.

**BOTTLE CAPS**

**R 325.741**  
Source: 1997 AACS.

**TRAILER COACH PARKS**

**R 325.746**  
Source: 1997 AACS.

**BUREAU OF DISEASE CONTROL AND LABORATORY SERVICES**

**CONTROL OF TUBERCULOSIS**

**PART 1. STATE SUBSIDY**

**R 325.763**  
Source: 1997 AACS.

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**PART 2. ADMISSIONS TO TUBERCULOSIS HOSPITALS**

**R 325.771**  
Source: 1997 AACS.

**R 325.772**  
Source: 1997 AACS.

**R 325.773**  
Source: 1997 AACS.

**R 325.775**  
Source: 1997 AACS.

**PART 3. TRANSFERS, DISCHARGES, AND DEATHS**

**R 325.781**  
Source: 1997 AACS.

**R 325.782**  
Source: 1997 AACS.

**R 325.783**  
Source: 1997 AACS.

**R 325.784**  
Source: 1997 AACS.

**R 325.786**  
Source: 1997 AACS.

**PART 4A. VOUCHERS FOR COUNTY CHARGE PATIENTS**

**R 325.801**  
Source: 1997 AACS.

**R 325.802**  
Source: 1997 AACS.

**R 325.803**  
Source: 1997 AACS.

**R 325.804**  
Source: 1997 AACS.

**PART 4B. VOUCHERS FOR STATE AT LARGE PATIENTS**

**R 325.811**  
Source: 1997 AACS.

**R 325.812**  
Source: 1997 AACS.

**R 325.813**  
Source: 1997 AACS.

**R 325.814**  
Source: 1997 AACS.

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**R 325.815**  
Source: 1997 AACS.

**R 325.816**  
Source: 1997 AACS.

**R 325.817**  
Source: 1997 AACS.

**R 325.818**  
Source: 1997 AACS.

**R 325.820**  
Source: 1997 AACS.

**PART 5. REIMBURSEMENTS FOR CARE OF PATIENTS**

**R 325.831**  
Source: 1997 AACS.

**R 325.832**  
Source: 1997 AACS.

**R 325.833**  
Source: 1997 AACS.

**R 325.834**  
Source: 1997 AACS.

**PART 6. RECALCITRANT PATIENTS**

**R 325.841**  
Source: 1997 AACS.

**R 325.842**  
Source: 1997 AACS.

**R 325.843**  
Source: 1997 AACS.

**R 325.844**  
Source: 1997 AACS.

**R 325.845**  
Source: 1997 AACS.

**R 325.846**  
Source: 1997 AACS.

**R 325.847**  
Source: 1997 AACS.

**R 325.848**  
Source: 1997 AACS.

**R 325.849**  
Source: 1997 AACS.

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**R 325.850**  
Source: 1997 AACS.

**R 325.851**  
Source: 1997 AACS.

**R 325.852**  
Source: 1997 AACS.

**PART 7. REIMBURSEMENT PROCEDURE**

**R 325.861**  
Source: 1997 AACS.

**R 325.862**  
Source: 1997 AACS.

**R 325.863**  
Source: 1997 AACS.

**R 325.864**  
Source: 1997 AACS.

**R 325.865**  
Source: 1997 AACS.

**R 325.866**  
Source: 1997 AACS.

**R 325.867**  
Source: 1997 AACS.

**R 325.871**  
Source: 1997 AACS.

**R 325.872**  
Source: 1997 AACS.

**R 325.873**  
Source: 1997 AACS.

**R 325.874**  
Source: 1997 AACS.

**R 325.875**  
Source: 1997 AACS.

**PART 8. VOLUNTARY AGREEMENTS BY PATIENTS TO MAKE REIMBURSEMENT**

**R 325.881**  
Source: 1997 AACS.

**R 325.882**  
Source: 1997 AACS.

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**R 325.883**  
Source: 1997 AACS.

**R 325.884**  
Source: 1997 AACS.

**R 325.885**  
Source: 1997 AACS.

**R 325.886**  
Source: 1997 AACS.

**PART 9. WITHHOLDING SUBSIDIES**

**R 325.891**  
Source: 1997 AACS.

**PART 10. REPORTS OF CHEST X-RAYS**

**R 325.896**  
Source: 1997 AACS.

**PART 11. EXAMINATION OF PERSONS IN HIGH EXPOSURE GROUPS**

**R 325.897**  
Source: 1997 AACS.

**R 325.898**  
Source: 1997 AACS.

**REIMBURSEMENT FOR OUTPATIENT SERVICES**

**R 325.901**  
Source: 1997 AACS.

**R 325.902**  
Source: 1997 AACS.

**HUMANE CARE AND USE OF ANIMALS**

**R 325.921**  
Source: 1980 AACS.

**R 325.922**  
Source: 1980 AACS.

**R 325.923**  
Source: 1980 AACS.

**R 325.924**  
Source: 1980 AACS.

**R 325.925**  
Source: 1980 AACS.

**R 325.926**

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Source: 1980 AACS.

**ANATOMY BOARD**  
**ANATOMICAL GIFTS**

**R 325.951**

Source: 1981 AACS.

**R 325.952**

Source: 1981 AACS.

**R 325.953**

Source: 1981 AACS.

**R 325.954**

Source: 1981 AACS.

**R 325.955**

Source: 1981 AACS.

**BUREAU OF DISEASE CONTROL AND LABORATORY SERVICES**

**HUMANE USE OF ANIMALS**

**R 325.981**

Source: 1997 AACS.

**R 325.982**

Source: 1997 AACS.

**R 325.983**

Source: 1997 AACS.

**R 325.984**

Source: 1997 AACS.

**R 325.985**

Source: 1997 AACS.

**R 325.986**

Source: 1997 AACS.

**R 325.987**

Source: 1997 AACS.

**R 325.988**

Source: 1997 AACS.

**R 325.989**

Source: 1997 AACS.

**R 325.990**

Source: 1997 AACS.

**R 325.991**

Source: 1997 AACS.

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**R 325.992**  
Source: 1997 AACCS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**BUREAU OF HEALTH SYSTEMS**

**DIVISION OF HEALTH FACILITIES AND SERVICES**

**MINIMUM STANDARDS FOR HOSPITALS**

**R 325.1001**  
Source: 1979 AC.

**R 325.1002**  
Source: 1979 AC.

**R 325.1003**  
Source: 1979 AC.

**R 325.1004**  
Source: 1979 AC.

**R 325.1005**  
Source: 1979 AC.

**PART 2. LICENSURE AND REPORTS FOR MATERNITY HOSPITALS**

**R 325.1011**  
Source: 1979 AC.

**R 325.1012**  
Source: 1979 AC.

**R 325.1013**  
Source: 1979 AC.

**R 325.1014**  
Source: 1979 AC.

**R 325.1015**  
Source: 1979 AC.

**R 325.1016**  
Source: 1979 AC.

**PART 3. OPERATIONAL RULES AND MINIMUM STANDARDS FOR ALL HOSPITAL PHYSICAL  
PLANT, FACILITIES, EQUIPMENT, AND OPERATIONS**

**R 325.1021**  
Source: 1979 AC.

**R 325.1022**  
Source: 1979 AC.

**R 325.1023**  
Source: 1979 AC.

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**R 325.1024**  
Source: 1979 AC.

**R 325.1025**  
Source: 1979 AC.

**R 325.1026**  
Source: 1979 AC.

**R 325.1027**  
Source: 1979 AC.

**R 325.1028**  
Source: 1979 AC.

**ADDITIONAL REQUIREMENTS FOR MATERNITY HOSPITALS AND DEPARTMENTS**

**R 325.1051**  
Source: 1979 AC.

**R 325.10521**  
Source: 1979 AC.

**R 325.1053**  
Source: 1981 AACCS.

**R 325.1054**  
Source: 1981 AACCS.

**R 325.1055**  
Source: 1979 AC.

**R 325.1056**  
Source: 1981 AACCS.

**R 325.1057**  
Source: 1979 AC.

**R 325.1058**  
Source: 1979 AC.

**R 325.1059**  
Source: 1979 AC.

**R 325.1060**  
Source: 1979 AC.

**R 325.1071**  
Source: 1979 AC.

**R 325.1081**  
Source: 1979 AC.

**R 325.1100**  
Source: 1979 AC.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**SOLID WASTE MANAGEMENT DIVISION**

**SOLID WASTE DISPOSAL**

**R 325.1101, R 325.1102**

Editor's note: Transferred to R 325.2701, R 325.2702.

**R 325.1103--R 325.1105**

Editor's note: Transferred to R 325.2721--R 325.2723.

**R 325.1106--R 325.1110**

Editor's note: Transferred to R 325.2731--R 325.2735.

**R 325.1121--R 325.1128**

History: 1954 AC; rescinded 1954 ACS 85, Eff. Sept. 24, 1976.

**DEPARTMENT OF COMMUNITY HEALTH**

**BUREAU OF EPIDEMIOLOGY**

**TRANSPORTATION AND DISPOSITION OF DEAD BODIES**

**R 325.1141**

Source: 1979 AC.

**R 325.1142**

Source: 1979 AC.

**R 325.1143**

Source: 1979 AC.

**R 325.1144**

Source: 1979 AC.

**R 325.1145**

Source: 1979 AC.

**DEPARTMENT OF COMMUNITY HEALTH**

**BUREAU OF EPIDEMIOLOGY**

**DONATED AND UNCLAIMED DEAD HUMAN BODIES OR PARTS**

**R 325.1151--R 325.1161**

History: Rescinded 1954 ACS 45, Eff. Feb. 14, 1966.

**R 325.1171--R 325.1177**

History: 1979 AC; 1984 MR 9, Eff. Sept. 25, 1984.

**R 325.1178 Rescission.**

Rule 8. R 325.1151 to R 325.1161 of the Michigan Administrative Code of 1954, as added in the 1959 Annual Administrative Code Supplement, page 1213, are rescinded.

History: 1979 AC.

**HEARINGS**

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**R 325.1201**  
Source: 1997 AACS.

**R 325.1202**  
Source: 1997 AACS.

**R 325.1203**  
Source: 1997 AACS.

**R 325.1204**  
Source: 1997 AACS.

**R 325.1205**  
Source: 1997 AACS.

**R 325.1206**  
Source: 1997 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**LEGISLATION AND POLICY**  
**REQUESTS FOR DECLARATORY RULINGS**

**R 325.1211**  
Source: 2008 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**BUREAU OF HEALTH SYSTEMS**  
**OFFICE OF THE DIRECTOR**  
**COMPLAINTS**

**R 325.1213**  
Source: 1979 AC.

**R 325.1214**  
Source: 1979 AC.

**R 325.1215**  
Source: 1979 AC.

**R 325.1216**  
Source: 1979 AC.

**R 325.1217**  
Source: 1979 AC.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**BUREAU OF HEALTH SYSTEMS**  
**OFFICE OF THE DIRECTOR**  
**PUBLIC INSPECTION OF LICENSE RECORDS**

**R 325.1281**  
Source: 1979 AC.

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**R 325.1282**  
Source: 1979 AC.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**BOARD OF EXAMINERS FOR SANITARIANS**

**R 325.1401**  
Source: 1997 AACS.

**R 325.1402**  
Source: 1997 AACS.

**R 325.1403**  
Source: 1997 AACS.

**R 325.1404**  
Source: 1997 AACS.

**R 325.1405**  
Source: 1997 AACS.

**R 325.1406**  
Source: 1997 AACS.

**R 325.1407**  
Source: 1997 AACS.

**R 325.1408**  
Source: 1997 AACS.

**R 325.1409**  
Source: 1997 AACS.

**R 325.1410**  
Source: 1997 AACS.

**R 325.1411**  
Source: 1997 AACS.

**R 325.1412**  
Source: 1997 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**POLICY AND LEGAL AFFAIRS ADMINISTRATION**  
**PHENYLKETONURIA TEST ON NEWBORN INFANTS**

**R 325.1471**  
Source: 2003 AACS.

**R 325.1472**  
Source: 2003 AACS.

**R 325.1473**  
Source: 2003 AACS.

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**R 325.1474**  
Source: 2003 AACS.

**R 325.1475**  
Source: 2003 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**

**OFFICE OF THE DIRECTOR**

**PRESCHOOL VISION TESTS**

**R 325.1481**  
Source: 1997 AACS.

**DISEASE CONTROL IN SCHOOLS**

**R 325.1491**  
Source: 1997 AACS.

**DEPARTMENT OF AGRICULTURE**

**AGRICULTURAL LABOR CAMPS**

**R 325.1501**  
Source: 1997 AACS.

**R 325.1502**  
Source: 1997 AACS.

**R 325.1503**  
Source: 1997 AACS.

**R 325.1504**  
Source: 1997 AACS.

**R 325.1505**  
Source: 1997 AACS.

**R 325.1506**  
Source: 1997 AACS.

**R 325.1507**  
Source: 1997 AACS.

**R 325.1508**  
Source: 1997 AACS.

**R 325.1509**  
Source: 1997 AACS.

**R 325.1510**  
Source: 1997 AACS.

**R 325.1511**  
Source: 1997 AACS.

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**R 325.1512**  
Source: 1997 AACS.

**R 325.1513**  
Source: 1997 AACS.

**R 325.1514**  
Source: 1997 AACS.

**R 325.1515**  
Source: 1997 AACS.

**R 325.1531**  
Source: 1997 AACS.

**R 325.1532**  
Source: 1997 AACS.

**R 325.1533**  
Source: 1997 AACS.

**R 325.1534**  
Source: 1997 AACS.

**R 325.1535**  
Source: 1997 AACS.

**R 325.1536**  
Source: 1997 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**

**DRINKING WATER AND RADIOLOGICAL PROTECTION DIVISION**

**MEDICAL WASTE PRODUCING FACILITIES**

**325.1541**  
Source: 1998-2000 AACS.

**325.1542**  
Source: 1998-2000 AACS.

**325.1543**  
Source: 1998-2000 AACS.

**325.1544**  
Source: 1998-2000 AACS.

**325.1545**  
Source: 1998-2000 AACS.

**325.1546**  
Source: 1998-2000 AACS.

**325.1547**  
Source: 1998-2000 AACS.

**325.1548**

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**Source:** 1998-2000 AACS.

**325.1549**

**Source:** 1998-2000 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**DIVISION OF ENVIRONMENTAL HEALTH**  
**CAMPGROUNDS**

**R 325.1551**

**Source:** 1998-2000 AACS.

**R 325.1552**

**Source:** 1998-2000 AACS.

**R 325.1553**

**Source:** 1998-2000 AACS.

**R 325.1554**

**Source:** 1998-2000 AACS.

**R 325.1555**

**Source:** 1998-2000 AACS.

**R 325.1555a**

**Source:** 1998-2000 AACS.

**R 325.1555b**

**Source:** 1998-2000 AACS.

**R 325.1556**

**Source:** 1998-2000 AACS.

**R 325.1556a**

**Source:** 1998-2000 AACS.

**R 325.1556b**

**Source:** 1998-2000 AACS.

**R 325.1557**

**Source:** 1998-2000 AACS.

**R 325.1558**

**Source:** 1998-2000 AACS.

**R 325.1559**

**Source:** 1998-2000 AACS.

**R 325.1560**

**Source:** 1998-2000 AACS.

**R 325.1561**

**Source:** 1998-2000 AACS.

**R 325.1562**

**Source:** 1998-2000 AACS.

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- R 325.1563**  
Source: 1998-2000 AACS.
- R 325.1564**  
Source: 1998-2000 AACS.
- R 325.1566**  
Source: 1998-2000 AACS.
- R 325.1568**  
Source: 1998-2000 AACS.
- R 325.1569**  
Source: 1987 AACS.
- R 325.1571**  
Source: 1998-2000 AACS.
- R 325.1574**  
Source: 1998-2000 AACS.
- R 325.1576**  
Source: 1998-2000 AACS.
- R 325.1585**  
Source: 1987 AACS.
- R 325.1586**  
Source: 1998-2000 AACS.
- R 325.1599**  
Source: 1998-2000 AACS.

**DIVISION OF WATER SUPPLY**  
**GROUNDWATER QUALITY CONTROL**  
**PART 1. WELL CONSTRUCTION CODE**

- R 325.1601**  
Source: 1994 AACS.
- R 325.1601a**  
Source: 1994 AACS.
- R 325.1602**  
Source: 1994 AACS.
- R 325.1603**  
Source: 1994 AACS.
- R 325.1603a**  
Source: 1994 AACS.
- R 325.1604**  
Source: 1994 AACS.
- R 325.1605**

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Source: 1994 AACS.

**R 325.1606**

Source: 1994 AACS.

**R 325.1607**

Source: 1994 AACS.

**R 325.1608**

Source: 1994 AACS.

**R 325.1610**

Source: 1994 AACS.

**R 325.1611**

Source: 1994 AACS.

**R 325.1612**

Source: 1994 AACS.

**R 325.1613**

Source: 1994 AACS.

**R 325.1621**

Source: 1994 AACS.

**R 325.1622**

Source: 1994 AACS.

**R 325.1624**

Source: 1994 AACS.

**R 325.1625**

Source: 1994 AACS.

**R 325.1626**

Source: 1994 AACS.

**R 325.1627**

Source: 1994 AACS.

**R 325.1631**

Source: 1997 AACS.

**R 325.1631a**

Source: 1994 AACS.

**R 325.1631b**

Source: 1994 AACS.

**R 325.1631c**

Source: 1994 AACS.

**R 325.1631d**

Source: 1994 AACS.

**R 325.1632**

Source: 1994 AACS.

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**R 325.1632a**  
Source: 1994 AACS.

**R 325.1633**  
Source: 1997 AACS.

**R 325.1633a**  
Source: 1994 AACS.

**R 325.1634**  
Source: 1997 AACS.

**R 325.1634a**  
Source: 1994 AACS.

**R 325.1635**  
Source: 1994 AACS.

**R 325.1636**  
Source: 1997 AACS.

**R 325.1637**  
Source: 1994 AACS.

**R 325.1637a**  
Source: 1994 AACS.

**R 325.1638**  
Source: 1994 AACS.

**R 325.1639**  
Source: 1994 AACS.

**R 325.1640**  
Source: 1994 AACS.

**R 325.1641**  
Source: 1994 AACS.

**R 325.1642**  
Source: 1994 AACS.

**R 325.1651**  
Source: 1994 AACS.

**R 325.1652**  
Source: 1997 AACS.

**R 325.1653**  
Source: 1994 AACS.

**R 325.1653a**  
Source: 1994 AACS.

**R 325.1654**  
Source: 1994 AACS.

**R 325.1655**  
Source: 1994 AACS.

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**R 325.1656**  
Source: 1994 AACS.

**R 325.1656a**  
Source: 1994 AACS.

**R 325.1657**  
Source: 1994 AACS.

**R 325.1657a**  
Source: 1994 AACS.

**R 325.1658**  
Source: 1994 AACS.

**R 325.1661**  
Source: 1994 AACS.

**R 325.1662**  
Source: 1994 AACS.

**R 325.1663**  
Source: 1994 AACS.

**R 325.1664**  
Source: 1994 AACS.

**R 325.1665**  
Source: 1994 AACS.

**R 325.1666**  
Source: 1997 AACS.

**R 325.1667**  
Source: 1994 AACS.

**R 325.1668**  
Source: 1994 AACS.

**R 325.1669**  
Source: 1994 AACS.

**R 325.1670**  
Source: 1994 AACS.

**R 325.1671**  
Source: 1997 AACS.

**R 325.1672**  
Source: 1994 AACS.

**R 325.1673**  
Source: 1994 AACS.

**R 325.1674**  
Source: 1994 AACS.

**R 325.1674a**  
Source: 1994 AACS.

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**R 325.1675**  
Source: 1994 AACS.

**R 325.1676**  
Source: 1994 AACS.

**PART 2. DRILLING CONTRACTORS' AND PUMP INSTALLERS' REGISTRATION**

**R 325.1701**  
Source: 1994 AACS.

**R 325.1701a**  
Source: 1994 AACS.

**R 325.1702**  
Source: 1994 AACS.

**R 325.1703**  
Source: 1994 AACS.

**R 325.1704**  
Source: 1994 AACS.

**R 325.1705**  
Source: 1997 AACS.

**R 325.1705a**  
Source: 1994 AACS.

**R 325.1706**  
Source: 1994 AACS.

**R 325.1707**  
Source: 1994 AACS.

**R 325.1707a**  
Source: 1994 AACS.

**R 325.1708**  
Source: 1994 AACS.

**R 325.1709**  
Source: 1994 AACS.

**R 325.1711**  
Source: 1994 AACS.

**PART 3. DRILLING MACHINES AND SERVICE VEHICLES**

**R 325.1721**  
Source: 1994 AACS.

**R 325.1722**  
Source: 1994 AACS.

**FAMILY INDEPENDENCE AGENCY**

**DIRECTOR'S OFFICE**

**HOMES FOR THE AGED**

**R 325.1801**  
Source: 2004 AACS.

**R 325.1811**  
Source: 2004 AACS.

**R 325.1812**  
Source: 2004 AACS.

**R 325.1813**  
Source: 2004 AACS.

**R 325.1815**  
Source: 2004 AACS.

**R 325.1816**  
Source: 2004 AACS.

**R 325.1819**  
Source: 2004 AACS.

**R 325.1821**  
Source: 2004 AACS.

**R 325.1825**  
Source: 2004 AACS.

**R 325.1827**  
Source: 2004 AACS.

**R 325.1829**  
Source: 2004 AACS.

**R 325.1831**  
Source: 2004 AACS.

**R 325.1833**  
Source: 2004 AACS.

**R 325.1835**  
Source: 2004 AACS.

**R 325.1836**  
Source: 2004 AACS.

**R 325.1837**  
Source: 2004 AACS.

**R 325.1839**  
Source: 2004 AACS.

**R 325.1841**  
Source: 2004 AACS.

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**R 325.1843**  
Source: 2004 AACS.

**R 325.1845**  
Source: 2004 AACS.

**R 325.1847**  
Source: 2004 AACS.

**R 325.1851**  
Source: 2004 AACS.

**R 325.1853**  
Source: 2004 AACS.

**R 325.1855**  
Source: 2004 AACS.

**R 325.1857**  
Source: 2004 AACS.

**R 325.1859**  
Source: 2004 AACS.

**R 325.1861**  
Source: 2004 AACS.

**R 325.1863**  
Source: 2004 AACS.

**R 325.1865**  
Source: 2004 AACS.

**R 325.1867**  
Source: 2004 AACS.

**R 325.1871**  
Source: 2004 AACS.

**R 325.1872**  
Source: 2004 AACS.

**R 325.1873**  
Source: 2004 AACS.

**R 325.1874**  
Source: 2004 AACS.

**R 325.1875**  
Source: 2004 AACS.

**R 325.1876**  
Source: 2004 AACS.

**R 325.1877**

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Source: 2004 AACS.

**R 325.1878**

Source: 2004 AACS.

**R 325.1879**

Source: 2004 AACS.

**R 325.1880**

Source: 2004 AACS.

**R 325.1881**

Source: 2004 AACS.

**R 325.1882**

Source: 2004 AACS.

**R 325.1883**

Source: 2004 AACS.

**R 325.1884**

Source: 2004 AACS.

**R 325.1885**

Source: 2004 AACS.

**R 325.1886**

Source: 2004 AACS.

**R 325.1887**

Source: 2004 AACS.

**R 325.1888**

Source: 2004 AACS.

**R 325.1889**

Source: 2004 AACS.

**R 325.1890**

Source: 2004 AACS.

**R 325.1891**

Source: 2004 AACS.

**PART 1. GENERAL PROVISIONS**

**R 325.1901**

Source: 2004 AACS.

**R 325.1909**

Source: 1997 AACS.

**PART 2. STATE ADMINISTRATION**

**R 325.1911**

Source: 2004 AACS.

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**R 325.1912**  
Source: 2004 AACS.

**R 325.1913**  
Source: 2004 AACS.

**R 325.1914**  
Source: 2004 AACS.

**R 325.1915**  
Source: 2004 AACS.

**R 325.1916**  
Source: 2004 AACS.

**R 325.1917**  
Source: 2004 AACS.

**R 325.1919**  
Source: 1997 AACS.

**PART 3. ADMINISTRATIVE MANAGEMENT OF HOMES**

**R 325.1921**  
Source: 2004 AACS.

**R 325.1922**  
Source: 2004 AACS.

**R 325.1923**  
Source: 2004 AACS.

**R 325.1924**  
Source: 2004 AACS.

**R 325.1925**  
Source: 1997 AACS.

**R 325.1927**  
Source: 1997 AACS.

**R 325.1928**  
Source: 1997 AACS.

**PART 4. RESIDENT CARE**

**R 325.1931**  
Source: 2004 AACS.

**R 325.1932 Resident medications.**

Rule 32.(1) Medication shall be given, taken, or applied pursuant to labeling instructions or orders by the prescribing licensed health care professional.

(2) The giving, taking, or applying of prescription medications shall be supervised by the home in accordance with the resident's service plan.

(3) If a home or the home's administrator or direct care staff member supervises the taking of medication by a resident, then the home shall comply with all of the following provisions:

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- (a) Be trained in the proper handling and administration of medication.
- (b) Complete an individual medication log that contains all of the following information:
  - (i) The medication.
  - (ii) The dosage.
  - (iii) Label instructions for use.
  - (iv) Time to be administered.
  - (v) The initials of the person who administered the medication, which shall be entered at the time the medication is given.
  - (vi) A resident's refusal to accept prescribed medication or procedures.
- (c) Record the reason for each administration of medication that is prescribed on an as-needed basis.
- (d) Initiate a review process to evaluate a resident's condition if a resident requires the repeated and prolonged use of a medication that is prescribed on an as-needed basis. The review process shall include the resident's prescribing licensed health care professional, the resident's authorized representative, if any, and the agency responsible for the resident's placement, if any.
- (e) Adjust or modify a resident's prescription medication with instructions from a prescribing licensed health care professional who has knowledge of the medical needs of the resident. A home shall record, in writing, any instructions regarding a resident's prescription medication.
- (f) Contact the appropriate licensed health care professional if a resident repeatedly refuses prescribed medication or treatment. The home shall follow and record the instructions given.
- (g) Upon discovery, contact the resident's licensed health care professional if a medication error occurs. A medication error occurs when a medication has not been given as prescribed.
- (4) If a resident requires medication while out of the home, then the home shall assure that the resident, or the person who assumes responsibility for the resident, has all of the appropriate information, medication, and instructions.
- (5) A home shall take reasonable precautions to ensure or assure that prescription medication is not used by a person other than the resident for whom the medication is prescribed.
- (6) Prescription medication that is no longer required by a resident shall be properly disposed of after consultation with a licensed health care professional or a pharmacist.

History: 2004 AACCS; 2013 MR 20, Eff. Oct. 31, 2013.

**R 325.1933**

Source: 2004 AACCS.

**R 325.1934**

Source: 2004 AACCS.

**R 325.1935**

Source: 2004 AACCS.

**R 325.1936**

Source: 1997 AACCS.

**R 325.1937**

Source: 1997 AACCS.

**R 325.1938**

Source: 1997 AACCS.

**R 325.1939**

Source: 1997 AACCS.

**PART 5. RECORDS**

**R 325.1941**

Source: 2004 AACCS.

**R 325.1942**

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Source: 2004 AACS.

**R 325.1943**

Source: 2004 AACS.

**R 325.1944**

Source: 2004 AACS.

**R 325.1945**

Source: 1997 AACS.

**R 325.1947**

Source: 1997 AACS.

**PART 6. FOOD SERVICE**

**R 325.1951**

Source: 2004 AACS.

**R 325.1952**

Source: 2004 AACS.

**R 325.1953**

Source: 2004 AACS.

**R 325.1954**

Source: 2004 AACS.

**R 325.1957**

Source: 1997 AACS.

**R 325.1959**

Source: 1997 AACS.

**PART 7. BUILDINGS AND GROUNDS**

**R 325.1961**

Source: 2004 AACS.

**R 325.1962**

Source: 2004 AACS.

**R 325.1963**

Source: 2004 AACS.

**R 325.1964**

Source: 2004 AACS.

**R 325.1965**

Source: 2004 AACS.

**R 325.1966**

Source: 2004 AACS.

**R 325.1967**

Source: 2004 AACS.

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**R 325.1968**  
Source: 2004 AACS.

**R 325.1969**  
Source: 2004 AACS.

**R 325.1970**  
Source: 2004 AACS.

**R 325.1971**  
Source: 2004 AACS.

**R 325.1972**  
Source: 2004 AACS.

**R 325.1973**  
Source: 2004 AACS.

**R 325.1974**  
Source: 2004 AACS.

**R 325.1975**  
Source: 2004 AACS.

**R 325.1976**  
Source: 2004 AACS.

**R325.1977**  
Source: 2004 AACS.

**R 325.1978**  
Source: 2004 AACS.

**R 325.1979**  
Source: 2004 AACS.

**R 325.1980**  
Source: 2004 AACS.

**PART 8. EMERGENCY PROCEDURES**

**R 325.1981**  
Source: 2004 AACS.

**R 325.1982**  
Source: 1997 AACS.

**R 325.1983**  
Source: 1997 AACS.

**R 325.1984**  
Source: 1997 AACS.

**R 325.1985**  
Source: 1997 AACS.

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**R 325.1986**  
Source: 1997 AACS.

**R 325.1991**  
Source: 1997 AACS.

**R 325.1993**  
Source: 1997 AACS.

**R 325.1995**  
Source: 1997 AACS.

**R 325.1997**  
Source: 1997 AACS.

**R 325.2001**  
Source: 1997 AACS.

**R 325.2002**  
Source: 1997 AACS.

**R 325.2004**  
Source: 1997 AACS.

**R 325.2005**  
Source: 1997 AACS.

**R 325.2007**  
Source: 1997 AACS.

**R 325.2011**  
Source: 1997 AACS.

**R 325.2012**  
Source: 1997 AACS.

**R 325.2013**  
Source: 1997 AACS.

**R 325.2014**  
Source: 1997 AACS.

**R 325.2015**  
Source: 1997 AACS.

**R 325.2016**  
Source: 1997 AACS.

**R 325.2017**  
Source: 1997 AACS.

**R 325.2018**  
Source: 1997 AACS.

**R 325.2019**

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**Source:** 1997 AACS.

**R 325.2020**

**Source:** 1997 AACS.

**R 325.2021**

**Source:** 1997 AACS.

**R 325.2022**

**Source:** 1997 AACS.

**R 325.2023**

**Source:** 1997 AACS.

**R 325.2024**

**Source:** 1997 AACS.

**R 325.2025**

**Source:** 1997 AACS.

**R 325.2026**

**Source:** 1997 AACS.

**R 325.2027**

**Source:** 1997 AACS.

**R 325.2028**

**Source:** 1997 AACS.

**R 325.2029**

**Source:** 1997 AACS.

**R 325.2031**

**Source:** 1997 AACS.

**R 325.2032**

**Source:** 1997 AACS.

**R 325.2033**

**Source:** 1997 AACS.

**R 325.2034**

**Source:** 1997 AACS.

**R 325.2035**

**Source:** 1997 AACS.

**R 325.2036**

**Source:** 1997 AACS.

**R 325.2037**

**Source:** 1997 AACS.

**R 325.2038**

**Source:** 1997 AACS.

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**R 325.2041**  
Source: 1997 AACS.

**R 325.2051**  
Source: 1997 AACS.

**R 325.2052**  
Source: 1997 AACS.

**R 325.2053**  
Source: 1997 AACS.

**R 325.2055**  
Source: 1997 AACS.

**R 325.2057**  
Source: 1997 AACS.

**R 325.2059**  
Source: 1997 AACS.

**R 325.2061**  
Source: 1997 AACS.

**R 325.2062**  
Source: 1997 AACS.

**R 325.2064**  
Source: 1997 AACS.

**R 325.2065**  
Source: 1997 AACS.

**R 325.2066**  
Source: 1997 AACS.

**R 325.2068**  
Source: 1997 AACS.

**R 325.2071**  
Source: 1997 AACS.

**R 325.2072**  
Source: 1997 AACS.

**R 325.2073**  
Source: 1997 AACS.

**R 325.2074**  
Source: 1997 AACS.

**R 325.2075**  
Source: 1997 AACS.

**R 325.2081**  
Source: 1997 AACS.

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**R 325.2082**  
Source: 1997 AACS.

**R 325.2083**  
Source: 1997 AACS.

**R 325.2084**  
Source: 1997 AACS.

**R 325.2085**  
Source: 1997 AACS.

**R 325.2091**  
Source: 1997 AACS.

**R 325.2092**  
Source: 1997 AACS.

**R 325.2093**  
Source: 1997 AACS.

**R 325.2094**  
Source: 1997 AACS.

**R 325.2095**  
Source: 1997 AACS.

**R 325.2096**  
Source: 1997 AACS.

**R 325.2097**  
Source: 1997 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH**  
**PUBLIC BATHING BEACHES**

**R 325.2101**  
Source: 1995 AACS.

**R 325.2102**  
Source: 1995 AACS.

**R 325.2103**  
Source: 1995 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**ENVIRONMENTAL AND OCCUPATIONAL HEALTH SERVICES ADMINISTRATION**  
**PUBLIC SWIMMING POOLS**

**PART 1. GENERAL PROVISIONS**

**Annual Administrative Code Supplement**  
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**R 325.2111**  
Source: 2001 AACS.

**R 325.2113**  
Source: 2001 AACS.

**R 325.2113a**  
Source: 2001 AACS.

**R 325.2114**  
Source: 2001 AACS.

**R 325.2115**  
Source: 2001 AACS.

**R 325.2116**  
Source: 2001 AACS.

**R 325.2117**  
Source: 2001 AACS.

**R 325.2118**  
Source: 2001 AACS.

**R 325.2118a**  
Source: 2001 AACS.

**R 325.2118d**  
Source: 2001 AACS.

**PART 2. CONSTRUCTION**

**R 325.2121**  
Source: 2001 AACS.

**R 325.2122**  
Source: 2001 AACS.

**R 325.2123**  
Source: 2001 AACS.

**R 325.2124**  
Source: 2001 AACS.

**R 325.2125**  
Source: 2001 AACS.

**R 325.2126**  
Source: 2001 AACS.

**R 325.2127**  
Source: 2001 AACS.

**R 325.2128**  
Source: 2001 AACS.

**R 325.2129**

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Source: 2001 AACS.

**R 325.2129a**

Source: 2001 AACS.

**R 325.2131**

Source: 2001 AACS.

**R 325.2132**

Source: 2001 AACS.

**R 325.2133**

Source: 2001 AACS.

**R 325.2134**

Source: 2001 AACS.

**R 325.2135**

Source: 2001 AACS.

**R 325.2136**

Source: 2001 AACS.

**R 325.2137**

Source: 2001 AACS.

**R 325.2138**

Source: 2001 AACS.

**R 325.2141**

Source: 2001 AACS.

**R 325.2142**

Source: 2001 AACS.

**R 325.2143**

Source: 2001 AACS.

**R 325.2143a**

Source: 2001 AACS.

**R 325.2144**

Source: 2001 AACS.

**R 325.2145**

Source: 2001 AACS.

**R 325.2146**

Source: 2001 AACS.

**R 325.2151**

Source: 2001 AACS.

**R 325.2152**

Source: 2001 AACS.

**R 325.2153**

Source: 2001 AACS.

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- R 325.2154**  
Source: 2001 AACS.
- R 325.2155**  
Source: 2001 AACS.
- R 325.2156**  
Source: 2001 AACS.
- R 325.2157**  
Source: 2001 AACS.
- R 325.2158**  
Source: 2001 AACS.
- R 325.2159**  
Source: 2001 AACS.
- R 325.2161**  
Source: 2001 AACS.
- R 325.2163**  
Source: 2001 AACS.
- R 325.2165**  
Source: 2001 AACS.
- R 325.2171**  
Source: 2001 AACS.
- R 325.2174**  
Source: 2001 AACS.
- R 325.2175**  
Source: 2001 AACS.
- R 325.2176**  
Source: 2001 AACS.
- R 325.2178**  
Source: 2001 AACS.
- R 325.2179**  
Source: 2001 AACS.
- R 325.2181**  
Source: 2001 AACS.
- R 325.2182**  
Source: 2001 AACS.
- R 325.2183**  
Source: 2001 AACS.
- R 325.2184**  
Source: 2001 AACS.

**PART 3. OPERATION AND USE**

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- R 325.2191**  
Source: 2001 AACS.
- R 325.2192**  
Source: 2001 AACS.
- R 325.2193**  
Source: 2001 AACS.
- R 325.2194**  
Source: 2001 AACS.
- R 325.2194a**  
Source: 2001 AACS.
- R 325.2195**  
Source: 2001 AACS.
- R 325.2196**  
Source: 2001 AACS.
- R 325.2197**  
Source: 2001 AACS.
- R 325.2198**  
Source: 2001 AACS.
- R 325.2199**  
Source: 2001 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**OFFICE OF DIRECTOR**  
**AMBULANCES**

- R 325.2201**  
Source: 1997 AACS.
- R 325.2202**  
Source: 1997 AACS.
- R 325.2203**  
Source: 1997 AACS.
- R 325.2204**  
Source: 1997 AACS.
- R 325.2205**  
Source: 1997 AACS.
- R 325.2206**  
Source: 1997 AACS.
- R 325.2207**  
Source: 1997 AACS.

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**R 325.2208**  
Source: 1997 AACS.

**BUREAU OF HEALTH CARE ADMINISTRATION**  
**ADVANCED EMERGENCY MEDICAL SERVICES**

**R 325.2211**  
Source: 1997 AACS.

**R 325.2221**  
Source: 1997 AACS.

**R 325.2222**  
Source: 1997 AACS.

**R 325.2223**  
Source: 1997 AACS.

**R 325.2224**  
Source: 1997 AACS.

**R 325.2225**  
Source: 1997 AACS.

**R 325.2226**  
Source: 1997 AACS.

**R 325.2227**  
Source: 1997 AACS.

**R 325.2228**  
Source: 1997 AACS.

**R 325.2231**  
Source: 1997 AACS.

**R 325.2232**  
Source: 1997 AACS.

**R 325.2233**  
Source: 1997 AACS.

**R 325.2234**  
Source: 1997 AACS.

**R 325.2241**  
Source: 1997 AACS.

**R 325.2242**  
Source: 1997 AACS.

**R 325.2243**  
Source: 1997 AACS.

**R 325.2244**  
Source: 1997 AACS.

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**R 325.2245**  
Source: 1997 AACS.

**R 325.2246**  
Source: 1997 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**

**BUREAU OF LABORATORIES**

**CLINICAL LABORATORIES**

**R 325.2301**  
Source: 1979 AC.

**R 325.2302**  
Source: 1979 AC.

**R 325.2311**  
Source: 1979 AC.

**R 325.2315**  
Source: 1979 AC.

**R 325.2319**  
Source: 1979 AC.

**R 325.2321**  
Source: 1979 AC.

**R 325.2322**  
Source: 1979 AC.

**R 325.2323**  
Source: 1979 AC.

**R 325.2324**  
Source: 1979 AC.

**R 325.2325**  
Source: 1979 AC.

**R 325.2326**  
Source: 1979 AC.

**R 325.2327**  
Source: 1979 AC.

**R 325.2331**  
Source: 1979 AC.

**R 325.2332**  
Source: 1979 AC.

**R 325.2333**  
Source: 1979 AC.

**R 325.2334**  
Source: 1979 AC.

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- R 325.2335**  
Source: 1979 AC.
- R 325.2336**  
Source: 1979 AC.
- R 325.2337**  
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- R 325.2338**  
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- R 325.2339**  
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- R 325.2340**  
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- R 325.2341**  
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- R 325.2342**  
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- R 325.2343**  
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- R 325.2344**  
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- R 325.2351**  
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- R 325.2352**  
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- R 325.2353**  
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- R 325.2354**  
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- R 325.2355**  
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- R 325.2361**  
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- R 325.2362**  
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- R 325.2363**  
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- R 325.2364**  
Source: 1979 AC.
- R 325.2365**  
Source: 1979 AC.

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**R 325.2366**  
Source: 1979 AC.

**R 325.2367**  
Source: 1979 AC.

**R 325.2368**  
Source: 1979 AC.

**R 325.2369**  
Source: 1979 AC.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**DIRECTOR'S OFFICE**

**OCCUPATIONAL HEALTH STANDARDS**

**R 325.2401**  
Source: 2003 AACS.

**R 325.2402**  
Source: 2003 AACS.

**R 325.2403**  
Source: 2003 AACS.

**R 325.2404**  
Source: 2003 AACS.

**R 325.2405**  
Source: 2003 AACS.

**R 325.2410**  
Source: 2003 AACS.

**R 325.2411**  
Source: 2003 AACS.

**R 325.2412**  
Source: 2003 AACS.

**R 325.2413**  
Source: 2003 AACS.

**R 325.2414**  
Source: 2003 AACS.

**R 325.2415**  
Source: 2003 AACS.

**R 325.2416**  
Source: 2003 AACS.

**R 325.2417**  
Source: 2003 AACS.

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**R 325.2418**  
Source: 2003 AACS.

**R 325.2419**  
Source: 2003 AACS.

**R 325.2421**  
Source: 2003 AACS.

**R 325.2422**  
Source: 2003 AACS.

**R 325.2424**  
Source: 2003 AACS.

**R 325.2429**  
Source: 2003 AACS.

**R 325.2430**  
Source: 2003 AACS.

**R 325.2431**  
Source: 2003 AACS.

**R 325.2434**  
Source: 2003 AACS.

**R 325.2435**  
Source: 2003 AACS.

**R 325.2436**  
Source: 2003 AACS.

**R 325.2437**  
Source: 2003 AACS.

**R 325.2438**  
Source: 2003 AACS.

**R 325.2439**  
Source: 2003 AACS.

**R 325.2440**  
Source: 2003 AACS.

**R 325.2441**  
Source: 2003 AACS.

**R 325.2442**  
Source: 2003 AACS.

**R 325.2442a**  
Source: 2003 AACS.

**R 325.2442b**  
Source: 2003 AACS.

**R 325.2442c**

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Source: 2003 AACS.

**R 325.2443**

Source: 2003 AACS.

**R 325.2444**

Source: 2003 AACS.

**R 325.2445**

Source: 2003 AACS.

**R 325.2446**

Source: 2003 AACS.

**R 325.2447**

Source: 2003 AACS.

**R 325.2448**

Source: 2003 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**DIVISION OF WATER AND RADIOLOGICAL PROTECTION**  
**TELECOMMUNICATIONS INDUSTRY**

**R 325.2491**

Source: 1979 AC.

**R 325.2492**

Source: 1979 AC.

**R 325.2493**

Source: 1979 AC.

**DEPARTMENT OF AGRICULTURE**  
**FOOD SERVICE SANITATION**

**R 325.2501**

Source: 1997 AACS.

**R 325.2502**

Source: 1997 AACS.

**R 325.2503**

Source: 1997 AACS.

**R 325.2504**

Source: 1997 AACS.

**R 325.2505**

Source: 1997 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**DRINKING WATER AND RADIOLOGICAL PROTECTION DIVISION**  
**MARINA FACILITIES**

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**R 325.2581**  
Source: 1979 AC.

**R 325.2583**  
Source: 1979 AC.

**R 325.2584**  
Source: 1979 AC.

**R 325.2586**  
Source: 1979 AC.

**R 325.2587**  
Source: 1979 AC.

**R 325.2588**  
Source: 1979 AC.

**R 325.2589**  
Source: 1979 AC.

**R 325.2590**  
Source: 1979 AC.

**R 325.2591**  
Source: 1979 AC.

**DEPARTMENT OF COMMUNITY HEALTH  
OFFICE OF THE DIRECTOR  
MERCURY LEVELS IN FISH FROM MICHIGAN WATERS**

**R 325.2601**  
Source: 1997 AACS.

**R 325.2602**  
Source: 1997 AACS.

**R 325.2603**  
Source: 1997 AACS.

**R 325.2604**  
Source: 1997 AACS.

**R 325.2605**  
Source: 1997 AACS.

**DEPARTMENT OF STATE POLICE  
SPECIAL OPERATIONS DIVISION  
TESTS FOR BREATH ALCOHOL**

**R 325.2651**  
Source: 2007 AACS.

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**R 325.2652**  
Source: 2010 AACS.

**R 325.2653**  
Source: 2010 AACS.

**R 325.2654**  
Source: 2007 AACS.

**R 325.2655**  
Source: 2007 AACS.

**R 325.2656**  
Source: 1994 AACS.

**R 325.2657**  
Source: 1997 AACS.

**R 325.2658**  
Source: 2007 AACS.

**R 325.2659**  
Source: 2005 AACS.

**FORENSIC SCIENCE DIVISION**  
**ALCOHOL AND DRUG TESTING OF BIOLOGICAL AND NONBIOLOGICAL SPECIMENS**

**R 325.2671**  
Source: 2005 AACS.

**R 325.2672**  
Source: 2005 AACS.

**R 325.2673**  
Source: 2011 AACS.

**R 325.2674**  
Source: 2005 AACS.

**R 325.2675**  
Source: 2011 AACS.

**R 325.2676**  
Source: 1997 AACS.

**R 325.2677**  
Source: 1997 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH**  
**SOLID WASTE DISPOSAL**

**R 325.2701**  
Source: 1997 AACS.

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**R 325.2702**  
Source: 1997 AACS.

**R 325.2721**  
Source: 1997 AACS.

**R 325.2722**  
Source: 1997 AACS.

**R 325.2723**  
Source: 1997 AACS.

**R 325.2731**  
Source: 1997 AACS.

**R 325.2732**  
Source: 1997 AACS.

**R 325.2733**  
Source: 1997 AACS.

**R 325.2734**  
Source: 1997 AACS.

**R 325.2735**  
Source: 1997 AACS.

**R 325.2741**  
Source: 1997 AACS.

**R 325.2742**  
Source: 1997 AACS.

**R 325.2743**  
Source: 1997 AACS.

**R 325.2744**  
Source: 1997 AACS.

**R 325.2745**  
Source: 1997 AACS.

**R 325.2746**  
Source: 1997 AACS.

**R 325.2747**  
Source: 1997 AACS.

**R 325.2749**  
Source: 1997 AACS.

**R 325.2751**  
Source: 1997 AACS.

**R 325.2752**

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**Source:** 1997 AACS.

**R 325.2753**

**Source:** 1997 AACS.

**R 325.2754**

**Source:** 1997 AACS.

**R 325.2755**

**Source:** 1997 AACS.

**R 325.2756**

**Source:** 1997 AACS.

**R 325.2757**

**Source:** 1997 AACS.

**R 325.2758**

**Source:** 1997 AACS.

**R 325.2759**

**Source:** 1997 AACS.

**R 325.2760**

**Source:** 1997 AACS.

**R 325.2761**

**Source:** 1997 AACS.

**R 325.2762**

**Source:** 1997 AACS.

**R 325.2763**

**Source:** 1997 AACS.

**R 325.2764**

**Source:** 1997 AACS.

**R 325.2765**

**Source:** 1997 AACS.

**R 325.2766**

**Source:** 1997 AACS.

**R 325.2767**

**Source:** 1997 AACS.

**R 325.2671**

**Source:** 2005 AACS.

**R 325.2672**

**Source:** 2005 AACS.

**R 325.2673**

**Source:** 2005 AACS.

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**R 325.2674**  
Source: 2005 AACS.

**R 325.2775**  
Source: 1997 AACS.

**R 325.2776**  
Source: 1997 AACS.

**R 325.2777**  
Source: 1997 AACS.

**R 325.2778**  
Source: 1997 AACS.

**R 325.2781**  
Source: 1997 AACS.

**R 325.2782**  
Source: 1997 AACS.

**R 325.2783**  
Source: 1997 AACS.

**R 325.2784**  
Source: 1997 AACS.

**R 325.2785**  
Source: 1997 AACS.

**R 325.2786**  
Source: 1997 AACS.

**R 325.2787**  
Source: 1997 AACS.

**R 325.2788**  
Source: 1997 AACS.

**R 325.2789**  
Source: 1997 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**COMMUNITY PUBLIC HEALTH AGENCY**  
**BLOOD BANKS**

**R 325.2941**  
Source: 1997 AACS.

**R 325.2942**  
Source: 1997 AACS.

**R 325.2943**  
Source: 1997 AACS.

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**R 325.2944**  
Source: 1997 AACS.

**R 325.2945**  
Source: 1997 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**OFFICE OF THE DIRECTOR**  
**CERTIFICATION OF SPECIAL SERVICES IN HOSPITALS**

**R 325.3001**  
Source: 1997 AACS.

**R 325.3051**  
Source: 1997 AACS.

**R 325.3053**  
Source: 1997 AACS.

**R 325.3055**  
Source: 1997 AACS.

**R 325.3057**  
Source: 1997 AACS.

**R 325.3058**  
Source: 1997 AACS.

**R 325.3061**  
Source: 1997 AACS.

**R 325.3063**  
Source: 1997 AACS.

**R 325.3064**  
Source: 1997 AACS.

**R 325.3065**  
Source: 1997 AACS.

**R 325.3066**  
Source: 1997 AACS.

**R 325.3067**  
Source: 1997 AACS.

**R 325.3068**  
Source: 1997 AACS.

**R 325.3069**  
Source: 1997 AACS.

**R 325.3070**  
Source: 1997 AACS.

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**R 325.3071**  
Source: 1997 AACS.

**R 325.3073**  
Source: 1997 AACS.

**R 325.3074**  
Source: 1997 AACS.

**R 325.3075**  
Source: 1997 AACS.

**R 325.3077**  
Source: 1997 AACS.

**R 325.3078**  
Source: 1997 AACS.

**R 325.3079**  
Source: 1997 AACS.

**R 325.3080**  
Source: 1997 AACS.

**R 325.3082**  
Source: 1997 AACS.

**R 325.3084**  
Source: 1997 AACS.

**R 325.3085**  
Source: 1997 AACS.

**R 325.3087**  
Source: 1997 AACS.

**R 325.3088**  
Source: 1997 AACS.

**R 325.3089**  
Source: 1997 AACS.

**R 325.3091**  
Source: 1997 AACS.

**R 325.3101**  
Source: 1997 AACS.

**R 325.3103**  
Source: 1997 AACS.

**R 325.3105**  
Source: 1997 AACS.

**R 325.3107**

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Source: 1997 AACS.

**R 325.3108**

Source: 1997 AACS.

**R 325.3110**

Source: 1997 AACS.

**R 325.3112**

Source: 1997 AACS.

**R 325.3113**

Source: 1997 AACS.

**R 325.3114**

Source: 1997 AACS.

**R 325.3116**

Source: 1997 AACS.

**R 325.3117**

Source: 1997 AACS.

**R 325.3118**

Source: 1997 AACS.

**R 325.3119**

Source: 1997 AACS.

**R 325.3121**

Source: 1997 AACS.

**R 325.3123**

Source: 1997 AACS.

**R 325.3124**

Source: 1997 AACS.

**R 325.3125**

Source: 1997 AACS.

**R 325.3127**

Source: 1997 AACS.

**R 325.3128**

Source: 1997 AACS.

**R 325.3129**

Source: 1997 AACS.

**R 325.3131**

Source: 1997 AACS.

**R 325.3132**

Source: 1997 AACS.

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**R 325.3134**  
Source: 1997 AACS.

**R 325.3136**  
Source: 1997 AACS.

**R 325.3138**  
Source: 1997 AACS.

**R 325.3139**  
Source: 1997 AACS.

**R 325.3140**  
Source: 1997 AACS.

**R 325.3141**  
Source: 1997 AACS.

**R 325.3142**  
Source: 1997 AACS.

**R 325.3144**  
Source: 1997 AACS.

**R 325.3151**  
Source: 1997 AACS.

**R 325.3153**  
Source: 1997 AACS.

**R 325.3155**  
Source: 1997 AACS.

**R 325.3157**  
Source: 1997 AACS.

**R 325.3158**  
Source: 1997 AACS.

**R 325.3159**  
Source: 1997 AACS.

**R 325.3160**  
Source: 1997 AACS.

**R 325.3161**  
Source: 1997 AACS.

**R 325.3162**  
Source: 1997 AACS.

**R 325.3165**  
Source: 1997 AACS.

**R 325.3166**  
Source: 1997 AACS.

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**R 325.3167**  
Source: 1997 AACS.

**R 325.3168**  
Source: 1997 AACS.

**R 325.3169**  
Source: 1997 AACS.

**R 325.3170**  
Source: 1997 AACS.

**R 325.3171**  
Source: 1997 AACS.

**R 325.3172**  
Source: 1997 AACS.

**R 325.3173**  
Source: 1997 AACS.

**R 325.3174**  
Source: 1997 AACS.

**R 325.3176**  
Source: 1997 AACS.

**R 325.3178**  
Source: 1997 AACS.

**R 325.3181**  
Source: 1997 AACS.

**R 325.3182**  
Source: 1997 AACS.

**R 325.3184**  
Source: 1997 AACS.

**R 325.3185**  
Source: 1997 AACS.

**R 325.3187**  
Source: 1997 AACS.

**OFFICE OF VITAL AND HEALTH STATISTICS**  
**COMPLETION, FILING, AND REGISTRATION OF VITAL RECORDS DOCUMENTS**

**R 325.3201**  
Source: 1981 AACS.

**R 325.3202**  
Source: 1981 AACS.

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- R 325.3203**  
Source: 1981 AACS.
- R 325.3204**  
Source: 1981 AACS.
- R 325.3205**  
Source: 1981 AACS.
- R 325.3206**  
Source: 1981 AACS.
- R 325.3207**  
Source: 1981 AACS.
- R 325.3208**  
Source: 1981 AACS.
- R 325.3209**  
Source: 1981 AACS.
- R 325.3210**  
Source: 1981 AACS.
- R 325.3211**  
Source: 1981 AACS.
- R 325.3212**  
Source: 1981 AACS.
- R 325.3213**  
Source: 1981 AACS.
- R 325.3214**  
Source: 1981 AACS.
- R 325.3215**  
Source: 1981 AACS.
- R 325.3216**  
Source: 1981 AACS.
- R 325.3217**  
Source: 1981 AACS.
- R 325.3218**  
Source: 1981 AACS.
- R 325.3219**  
Source: 1981 AACS.
- R 325.3220**  
Source: 1981 AACS.
- R 325.3221**  
Source: 1981 AACS.

**VITAL RECORDS INSPECTION AND DISCLOSURE**

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**R 325.3231**  
Source: 1983 AACS.

**R 325.3232**  
Source: 1983 AACS.

**R 325.3233**  
Source: 1983 AACS.

**R 325.3234**  
Source: 1983 AACS.

**R 325.3235**  
Source: 1983 AACS.

**R 325.3236**  
Source: 1983 AACS.

**AMENDMENTS TO VITAL RECORDS**

**R 325.3251**  
Source: 1981 AACS.

**R 325.3252**  
Source: 1981 AACS.

**R 325.3253**  
Source: 1981 AACS.

**R 325.3254**  
Source: 1981 AACS.

**R 325.3255**  
Source: 1981 AACS.

**R 325.3256**  
Source: 1981 AACS.

**R 325.3257**  
Source: 1981 AACS.

**R 325.3258**  
Source: 1981 AACS.

**R 325.3259**  
Source: 1981 AACS.

**R 325.3260**  
Source: 1981 AACS.

**R 325.3261**  
Source: 1981 AACS.

**R 325.3262**  
Source: 1981 AACS.

**R 325.3263**  
Source: 1981 AACS.

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**R 325.3264**  
Source: 1981 AACS.

**R 325.3265**  
Source: 1981 AACS.

**R 325.3266**  
Source: 1981 AACS.

**R 325.3267**  
Source: 1981 AACS.

**DIVISION OF CHILD HEALTH**  
**HEARING SCREENING AND TESTS**

**R 325.3271**  
Source: 2004 AACS.

**R 325.3272**  
Source: 2004 AACS.

**R 325.3273**  
Source: 2004 AACS.

**R 325.3274**  
Source: 2004 AACS.

**R 325.3275**  
Source: 2004 AACS.

**R 325.3276**  
Source: 2004 AACS.

**DEPARTMENT OF AGRICULTURE**  
**BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH**  
**MOBILE HOME PARKS AND SEASONAL MOBILE HOME PARKS**

**PART 1. GENERAL PROVISIONS**

**R 325.3311**  
Source: 1984 AACS.

**R 325.3312**  
Source: 1980 AACS.

**R 325.3313**  
Source: 1980 AACS.

**R 325.3314**  
Source: 1984 AACS.

**PART 2. WATER SUPPLY SYSTEMS**

**R 325.3321**

**Annual Administrative Code Supplement**  
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Source: 1984 AACS.

**PART 3. SEWAGE COLLECTION AND DISPOSAL SYSTEMS**

**R 325.3331**

Source: 1984 AACS.

**R 325.3332**

Source: 1984 AACS.

**R 325.3333**

Source: 1980 AACS.

**R 325.3334**

Source: 1984 AACS.

**R 325.3335**

Source: 1984 AACS.

**PART 4. DRAINAGE**

**R 325.3341**

Source: 1984 AACS.

**R 325.3342**

Source: 1984 AACS.

**R 325.3343**

Source: 1984 AACS.

**R 325.3344**

Source: 1980 AACS.

**R 325.3345**

Source: 1980 AACS.

**R 325.3346**

Source: 1980 AACS.

**R 325.3347**

Source: 2008 AACS.

**R 325.3348**

Source: 2008 AACS.

**R 325.3349**

Source: 2008 AACS.

**PART 5. GARBAGE AND RUBBISH STORAGE AND DISPOSAL**

**R 325.3351**

Source: 2008 AACS.

**R 325.3352**

Source: 1984 AACS.

**R 325.3353**

Source: 2008 AACS.

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**R 325.3354**  
Source: 1984 AACS.

**PART 6. INSECT AND RODENT CONTROL**

**R 325.3361**  
Source: 2008 AACS.

**R 325.3362**  
Source: 1984 AACS.

**R 325.3363**  
Source: 2008 AACS.

**PART 7. GENERAL OPERATION, MAINTENANCE, AND SAFETY**

**R 325.3371**  
Source: 2008 AACS.

**R 325.3372**  
Source: 2008 AACS.

**R 325.3373**  
Source: 1984 AACS.

**R 325.3374**  
Source: 1984 AACS.

**PART 8. COORDINATION OF APPROVALS FOR CONSTRUCTION**

**R 325.3381**  
Source: 1984 AACS.

**R 325.3382**  
Source: 1984 AACS.

**R 325.3383**  
Source: 1980 AACS.

**R 325.3384**  
Source: 1984 AACS.

**R 325.3385**  
Source: 1984 AACS.

**PART 9. CERTIFICATION OF COMPLIANCE**

**R 325.3391**  
Source: 1984 AACS.

**R 325.3392**  
Source: 1984 AACS.

**R 325.3393**  
Source: 1984 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**BUREAU OF DISEASE CONTROL AND LABORATORY SERVICES**

**VENEREAL DISEASE**

- R 325.3401**  
Source: 1997 AACS.
- R 325.3402**  
Source: 1997 AACS.
- R 325.3403**  
Source: 1997 AACS.
- R 325.3404**  
Source: 1997 AACS.
- R 325.3405**  
Source: 1997 AACS.
- R 325.3406**  
Source: 1997 AACS.
- R 325.3407**  
Source: 1997 AACS.
- R 325.3408**  
Source: 1997 AACS.
- R 325.3409**  
Source: 1997 AACS.
- R 325.3410**  
Source: 1981 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES  
OCCUPATIONAL HEALTH STANDARDS COMMISSION  
EMPLOYEE MEDICAL RECORDS AND TRADE SECRETS**

- R 325.3451**  
Source: 1983 AACS.
- R 325.3452**  
Source: 1998-2000 AACS.
- R 325.3453**  
Source: 1998-2000 AACS.
- R 325.3454**  
Source: 1983 AACS.
- R 325.3455**  
Source: 1983 AACS.
- R 325.3456**  
Source: 1993 AACS.
- R 325.3457**  
Source: 1993 AACS.

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- R 325.3458**  
Source: 1983 AACS.
- R 325.3459**  
Source: 1993 AACS.
- R 325.3460**  
Source: 1993 AACS.
- R 325.3461**  
Source: 1993 AACS.
- R 325.3462**  
Source: 1983 AACS.
- R 325.3463**  
Source: 1983 AACS.
- R 325.3464**  
Source: 1993 AACS.
- R 325.3465**  
Source: 1983 AACS.
- R 325.3466**  
Source: 1983 AACS.
- R 325.3467**  
Source: 1993 AACS.
- R 325.3468**  
Source: 1983 AACS.
- R 325.3469**  
Source: 1983 AACS.
- R 325.3470**  
Source: 1983 AACS.
- R 325.3471**  
Source: 1993 AACS.
- R 325.3472**  
Source: 1993 AACS.
- R 325.3472a**  
Source: 1993 AACS.
- R 325.3473**  
Source: 1993 AACS.
- R 325.3474**  
Source: 1983 AACS.
- R 325.3475**  
Source: 1983 AACS.
- R 325.3476**  
Source: 1998-2000 AACS.

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**DEPARTMENT OF COMMUNITY HEALTH**  
**BUREAU OF DISEASE CONTROL AND LABORATORY SERVICES**  
**IMMUNIZATIONS IN SCHOOLS, DAY CARE CENTERS, AND CAMPING PROGRAMS**

**R 325.3501**  
Source: 1997 AACS.

**R 325.3502**  
Source: 1997 AACS.

**R 325.3503**  
Source: 1997 AACS.

**R 325.3504**  
Source: 1997 AACS.

**R 325.3505**  
Source: 1997 AACS.

**R 325.3506**  
Source: 1997 AACS.

**R 325.3507**  
Source: 1997 AACS.

**R 325.3508**  
Source: 1997 AACS.

**R 325.3509**  
Source: 1997 AACS.

**R 325.3510**  
Source: 1997 AACS.

**R 325.3511**  
Source: 1997 AACS.

**R 325.3512**  
Source: 1997 AACS.

**R 325.3513**  
Source: 1997 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH**  
**ASBESTOS CONTRACTOR LICENSING**

**R 325.3551**  
Source: 1988 AACS.

**R 325.3553**  
Source: 1988 AACS.

**R 325.3555**  
Source: 1988 AACS.

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**R 325.3557**  
Source: 1988 AACS.

**R 325.3559**  
Source: 1988 AACS.

**R 325.3561**  
Source: 1988 AACS.

**R 325.3563**  
Source: 1988 AACS.

**R 325.3565**  
Source: 1988 AACS.

**R 325.3567**  
Source: 1988 AACS.

**R 325.3569**  
Source: 1988 AACS.

**R 325.3571**  
Source: 1988 AACS.

**AGRICULTURAL LABOR CAMPS**

**R 325.3601**  
Source: 1989 AACS.

**R 325.3603**  
Source: 1989 AACS.

**R 325.3605**  
Source: 1989 AACS.

**R 325.3607**  
Source: 1989 AACS.

**R 325.3609**  
Source: 1989 AACS.

**R 325.3611**  
Source: 1989 AACS.

**R 325.3613**  
Source: 1989 AACS.

**R 325.3615**  
Source: 1989 AACS.

**R 325.3617**  
Source: 1989 AACS.

**R 325.3619**  
Source: 1989 AACS.

**R 325.3621**  
Source: 1989 AACS.

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**R 325.3623**  
Source: 1989 AACS.

**R 325.3625**  
Source: 1989 AACS.

**R 325.3627**  
Source: 1989 AACS.

**R 325.3629**  
Source: 1989 AACS.

**R 325.3631**  
Source: 1989 AACS.

**R 325.3633**  
Source: 1989 AACS.

**R 325.3635**  
Source: 1989 AACS.

**R 325.3637**  
Source: 1989 AACS.

**R 325.3639**  
Source: 1989 AACS.

**R 325.3641**  
Source: 1989 AACS.

**R 325.3643**  
Source: 1989 AACS.

**R 325.3699**  
Source: 1989 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**OFFICE OF THE DIRECTOR**  
**TOXIC SUBSTANCE LOAN PROGRAM**

**R 325.3701**  
Source: 1997 AACS.

**R 325.3702**  
Source: 1997 AACS.

**R 325.3703**  
Source: 1997 AACS.

**R 325.3704**  
Source: 1997 AACS.

**R 325.3705**  
Source: 1997 AACS.

**R 325.3706**  
Source: 1997 AACS.

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**R 325.3707**

Source: 1997 AACS.

**R 325.3708**

Source: 1997 AACS.

**R 325.3709**

Source: 1997 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**BUREAU OF HEALTH SYSTEMS**

**FREESTANDING SURGICAL OUTPATIENT FACILITIES**

**R 325.3801**

Source: 2001 AACS.

**R 325.3802 Definitions; C to S.**

Rule 2. As used in these rules:

(a) "Code" means 1978 PA 368, MCL 333.1101 to 333.25211.

(b) "Department" means the department of licensing and regulatory affairs.

(c) "Director" means the director of the department.

(d) "Freestanding surgical outpatient facility" or "facility" means a facility as defined in section 20104(5) of the code, MCL 333.20104(5), and includes, but is not limited to, a facility that includes a private practice office that performs 120 or more surgical abortions per year and that publicly advertises outpatient abortion services. Characteristics of a freestanding surgical outpatient facility include, but not limited to, patient encounters with a physician, dentist, podiatrist, or other provider primarily for the purpose of performing surgical procedures or related diagnosis, consultation, observation, and postoperative care, and the owner or operator makes the facility available to other physicians, dentists, podiatrists, or providers who comprise its professional staff.

(e) "Hospital" means a facility defined in section 20106(5) of the code.

(f) "Nurse" means an individual who is currently licensed or registered as a nurse by the state.

(g) "Physician" means a person licensed to practice medicine or osteopathy in this state.

(h) "Pregnancy termination facility" means a facility, including, but not limited to, a private practice office that performs 120 or more surgical abortions per year and that publicly advertises outpatient abortion services.

(i) "Private practice office" means an office of a physician, dentist, podiatrist, or other provider whose patients are limited to those of the individual licensed professional maintaining and operating the office or the combined patients of individually licensed professionals practicing together in a legally constituted professional corporation, association, or partnership, and sharing office space. The office is maintained and operated by the licensed professional in accordance with usual practice patterns according to the type of practice. Patient encounters in the office are for the purpose of diagnosis and treatment and are not limited primarily to the performance of surgical procedures and related care.

(j) "Publicly advertises" means to advertise using directory or internet advertising including yellow pages, white pages, banner advertising, or electronic publishing.

(k) "Surgery" means the treatment of human beings by a physician, by the use of 1 or more of the following procedures:

(i) Cutting into any part of the body by surgical scalpel, electro-cautery, or other means for diagnosis or the removal or repair of diseased or damaged tissue, organs, tumors, or foreign bodies.

(ii) Reduction of fractures or dislocations of a bone, joint, or bony structure.

(iii) Repair of malformations or body defects resulting from injury, birth defects, or other causes that require cutting and manipulation or suture.

(iv) Instrumentation of the uterine cavity, including the procedure commonly known as dilatation and curettage, for diagnostic or therapeutic purposes.

(v) Any instrumentation of or injection of any substance into the uterine cavity of a woman for the purpose of terminating a pregnancy.

(vi) Human sterilization procedures.

(vii) Endoscopic procedures.

History: 1979 AC; 2001 AACS; 2013 MR 18, Eff. Oct. 1, 2013.

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**R 325.3803**  
Source: 2001 AACS.

**R 325.3811**  
Source: 2001 AACS.

**R 325.3812**  
Source: 2001 AACS.

**R 325.3813**  
Source: 1979 AC.

**R 325.3815 Construction and major alterations of physical facilities.**

Rule 15. (1) The owner or governing body of a proposed freestanding surgical outpatient facility shall submit plans of the proposed facility to the department for review and approval before beginning any construction project, including modernization, addition to, or conversion of, an existing structure. The purpose of the review is to ensure that the proposed facility is designated and constructed in accordance with applicable rules.

(2) A facility shall not be constructed nor major alterations undertaken without first obtaining a construction permit from the department.

(3) A major alteration is any extensive structural alteration of an existing building area involving significant changes in the interior configurations or intended use by the moving of partitions of a number of rooms and involving an expenditure in excess of \$50,000.00. Removal of the partitions between 2 adjacent rooms to provide additional room space is not a major alteration unless all of the following occur:

(a) It costs more than \$50,000.00.

(b) Multiple changes are to be made for a changed use of an entire wing or area.

(c) Extensive plumbing and electrical wiring changes are required.

(4) The department may modify or waive 1 or more of the requirements of these rules regarding construction or equipment standards, or both, for a pregnancy termination facility if both of the following provisions apply:

(a) The freestanding surgical outpatient facility was in existence and operating on December 31, 2012.

(b) The department makes a determination that the existing construction or equipment, or both, within the facility is adequate to preserve the health and safety of the patients and employees of the facility or that the construction or equipment standards, or both, can be modified to adequately preserve the health and safety of the patients and employees of the facility without meeting the specific requirements of these rules.

History: 1979 AC; 2001 AACS; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3816**  
Source: 2001 AACS.

**R 325.3817**  
Source: 2001 AACS.

**R 325.3818**  
Source: 2001 AACS.

**R 325.3819**  
Source: 2001 AACS.

**R 325.3820**  
Source: 1979 AC.

**R 325.3821**  
Source: 1979 AC.

**R 325.3822**  
Source: 1979 AC.

**R 325.3825**  
Source: 1979 AC.

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**R 325.3826 Surgical procedures; medications.**

Rule 26. (1) A surgical procedure performed in a facility shall be done by a licensed physician. A licensed podiatrist or licensed dentist may also perform surgical procedures in a facility under the direction of a physician and in accord with written facility policies and procedures adopted by the governing body or owner.

(2) A qualified physician shall be present on the premises of a facility through the postoperative period of a patient's stay in the facility.

(3) Medications, diagnostic procedures, and treatments customarily given or performed by nurses or other qualified personnel shall be given only upon written order of the responsible physician, except under either of the following:

(a) In emergencies, verbal orders of the physician for medications or treatments may be carried out with subsequent notation of such care being entered in the patient's record and signed by the physician.

(b) Standing orders for specific tests and pre- and postoperative care may be established and honored when provided in writing and approved by the medical staff or physician owner or operator of the facility.

History: 1979 AC; 2001 AACS; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3827**

Source: 1979 AC.

**R 325.3828**

Source: 2001 AACS.

**R 325.3831**

Source: 1979 AC.

**R 325.3832 Transportation services.**

Rule 32. A facility shall have adequate transportation services immediately available, or have protocols established for accessing 911 emergency transportation services, for emergency patients requiring transfer to a hospital. A facility shall be located not more than 30 minutes normal travel time from the hospital with which written emergency admission arrangements are made. When indicated, a physician or nurse from the facility shall accompany the patient to provide emergency care en route.

History: 1979 AC; 2001 AACS; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3833**

Source: 1979 AC.

**R 325.3834**

Source: 1979 AC.

**R 325.3835**

Source: 2001 AACS.

**R 325.3836**

Source: 1979 AC.

**R 325.3837 Medical consultations.**

Rule 37. Consultation and assistance in any needed medical specialty field shall be readily available and used as indicated before and, when necessary, following a surgical procedure. If there is any doubt concerning the patient's medical status, appropriate consultation shall be required and written reports of the consultants' findings and recommendations shall be entered in the patient's clinical record. A facility shall maintain a current record of the identities of consultants serving the facility.

History: 1979 AC; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3838**

Source: 1979 AC.

**R 325.3839**

Source: 1979 AC.

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**R 325.3840**

Source: 1979 AC.

**R 325.3841**

Source: 1979 AC.

**R 325.3842**

Source: 1979 AC.

**R 325.3843**

Source: 1979 AC.

**R 325.3844**

Source: 1979 AC.

**R 325.3845**

Source: 1979 AC.

**R 325.3846**

Source: 1979 AC.

**R 325.3847 Medical records.**

Rule 47. (1) Medical records shall be originated on all patients undergoing surgery, signed by the responsible physician, indexed, and so filed as to assure their ready access and future availability. The medical files shall be maintained in accordance with a written retention policy. In a hospital operated facility, the recordkeeping shall be incorporated into the hospital medical records system, including and subject to its established retention policies.

(2) Medical records shall contain, at a minimum, all of the following:

(a) Patient identification, including name, address, marital status, and birthdate.

(b) Medical history.

(c) Physical examination.

(d) Medical orders signed by the responsible physician.

(e) Laboratory findings.

(f) Special examination findings, for example, x-ray or electrocardiogram.

(g) Preoperative and final diagnosis.

(h) Nurses' notes which include a recording of vital signs, pre-and postoperatively, color, appearance, and other relevant observations with such frequency postoperatively as to document the patient's stabilized condition at time of discharge.

(i) Record of the sedation and anesthetic used by product name and dosage, identity of anesthetist if other than the surgeon, procedure, and any pertinent information concerning results or reactions.

(j) Written consultation reports signed by the consultant.

(k) Social or social service information relevant to the case.

(l) Surgeon's operative note including naming of procedure performed, physician performing surgery, anesthetic agent used, names of assistants (whether another physician, a nurse, or a specially trained technician), duration of procedure and any unusual problems or occurrences encountered, and surgeon's description of gross appearance of tissues removed.

(m) Physician's progress notes and discharge note. The physician's progress and discharge notes may be combined in the patient's clinical record.

(n) Summary of instructions given for follow-up observation and care as well as recording of all referrals for counseling, family planning, or other medical conditions requiring further attention.

(o) Identification of the physician who actually discharges the patient.

(3) Medical records shall be available for survey and review of content at any time by authorized members of the department.

(4) Medical records shall be maintained as confidential documents with the following exceptions:

(a) Information required under these rules.

(b) Information required by law.

(c) Information authorized for disclosure by written release by the patient.

(5) A facility in which pregnancy terminations are performed shall maintain records of the procedures and shall file reports and furnish statistical and such other information as may be required by the director of the department of community health. These shall be reported on forms provided by the director in accordance with definitions and

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notification procedures as he or she may specify. The report forms shall be signed in each instance by the physician performing the procedure. The report forms shall not require identification of the patient undergoing the procedure.

(6) Failure or refusal of a facility to file the notification of termination of pregnancy properly executed and personally signed by the responsible physician is sufficient cause for immediately beginning proceedings for revoking the license and closing the facility.

(7) Information submitted by a referral source shall become an integral part of the clinical record of the patient.

History: 1979 AC; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3848**

Source: 1979 AC.

**R 325.3851**

Source: 2001 AACS.

**R 325.3855 Plans and specifications.**

Rule 55. (1) A floor plan of the facility with a description of rooms showing size, door locations, and fixed equipment shall be on file in the facility and at the department.

(2) Complete plans and specifications for new buildings, additions, major building changes, and conversion of existing facilities for use as a facility shall be submitted to the department for review and approval.

(3) Plans and specifications meeting the requirements of the law and these rules shall be approved by the department and a permit for construction issued.

(4) Construction of new buildings, additions, major building changes, and conversion of existing structures for use as a facility shall not begin until the plans and specifications have been approved by the department and a permit for construction issued.

(5) As provided by R 325.3868a, the department may waive a specific requirement of this rule as applied to a pregnancy termination facility.

History: 1979 AC; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3856 Exterior.**

Rule 56. (1) The premises of a facility shall be maintained in a safe and sanitary condition and in a manner consistent with the public health and welfare.

(2) At least 1 entrance to a facility shall provide safe and easy access for the physically handicapped.

(3) Exterior ramps and steps shall have a handrail on both sides.

(4) Sufficient light for an exterior ramp or steps shall be provided for the safety of persons using the facility.

(5) As provided by R 325.3868a, the department may waive a specific requirement of this rule as applied to a pregnancy termination facility.

History: 1979 AC; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3857 Interior construction.**

Rule 57. (1) A building shall be of safe construction and shall be free from hazards to patients, personnel, or visitors.

(2) Each area of a facility shall be provided with lighting adequate for the use to be made of the location and in compliance with generally recognized lighting standards.

(3) Each area of a facility shall be provided with a type and amount of ventilation commensurate with its use, to minimize the occurrence of transmissible disease, control odors, and contribute to the comfort of patients and personnel.

(4) Corridors, hallways, passageways, and doorways shall be kept free from obstruction at all times.

(5) Floors, walls, and ceilings shall be covered and finished in a manner that permits maintenance of a sanitary environment.

(6) Emergency electrical service shall be permanently installed in the facility to provide lighting in corridors, exits, procedure rooms, recovery rooms, congregate rooms, nurse stations, and other critical areas. In new construction or renovations, an emergency generator that has an automatic transfer switch or an alternative source of immediate electrical power acceptable to the department shall be provided for lighting and operation of equipment necessary to patient care.

(7) Patient examination, procedure, and recovery rooms shall have a minimum door width of 3 feet.

History: 1979 AC; 2001 AACS; 2013 MR 18, Eff. Oct. 1, 2013.

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**R 325.3858 Elevators.**

Rule 58. (1) An elevator shall be provided where patient care is provided at different floor levels. The cab size of the elevator shall be sufficient to accommodate a stretcher and attendant.

(2) As provided by R 325.3868a, the department may waive a specific requirement of this rule as applied to a pregnancy termination facility.

History: 1979 AC; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3859**

Source: 1979 AC.

**R 325.3860**

Source: 1979 AC.

**R 325.3866**

Source: 2001 AACS.

**R 325.3867 Medication and storage areas.**

Rule 67. (1) A facility shall have enough medication work and storage areas to meet the volume of work to be accomplished.

(2) A shelf or desk shall be provided for the nurse's use in preparing and administering medications and recording information in patients' records and shall be within and readily accessible to all patient care areas for which that nursing station has responsibility.

(3) A medication storage and preparation area equipped with a sink that has a gooseneck inlet and hot and cold water and locked storage for medications shall be provided. This includes adequate space for the storage of medications, fluids, and electrolyte solutions in a safe and sanitary manner.

(4) Space shall be available for the storage of clean linens, equipment, supplies, wheelchairs and stretchers.

(5) A soiled utility room shall be available for temporarily holding waste materials and cleaning of items to be reused.

(6) A janitor's closet that has a service sink shall be available.

(7) As provided by R 325.3868a, the department may waive subrule (5) of this rule as applied to a pregnancy termination facility.

History: 1979 AC; 2001 AACS; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3868**

Source: 2001 AACS.

**R 325.3868a Waiver of certain requirements.**

Rule 68a. (1) In accordance with section 20115(4) of the code, MCL 333.20115(4), and pursuant to R 325.3815(4), the department may waive a specific requirement of R 325.3855, R 325.3856, R 325.3858, R 325.3866, R 325.3867(5), or R 325.3868 as applied to a pregnancy termination facility if it reasonably determines the facility construction, size, and equipment of a room, area, or equipment utilized for purposes of medication preparation or storage, sanitary storage, or facility maintenance are adequate to protect the health and safety of the patients and employees of the facility, or that the construction, equipment or maintenance standards can be modified to adequately preserve the health and safety of the patients and employees of the facility without meeting the specific requirements of these rules.

(2) A pregnancy termination facility shall submit a request for variance in writing at the time of application for a license.

(3) The decision of the department, including any qualification under which the variance is granted, shall be sent to the pregnancy termination facility and placed in the facility record.

(4) The variance may remain in effect for as long as the pregnancy termination facility continues to comply with the conditions of the variance or may be time-limited.

History: 2001 AACS; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3869**

Source: 1979 AC.

**R 325.3871**

Source: 1979 AC.

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**R 325.3872**

Source: 1979 AC.

**R 325.3873**

Source: 1979 AC.

**R 325.3874 Solid wastes.**

Rule 74. (1) The collection, storage, and disposal of solid wastes, including garbage, refuse, and dressings, shall be accomplished in a safe and sanitary manner to minimize the danger of disease transmission and avoid creating a public nuisance or a breeding place for insects and rodents.

(2) Suitable containers for garbage, refuse, dressings, and other solid wastes shall be provided, emptied at frequent intervals, and maintained in a clean and sanitary condition.

(3) A facility shall have and enforce a written policy to govern storage, transportation, and disposal of surgical specimens. Surgical specimens not sent to a pathology laboratory shall be disposed of in a medically acceptable manner.

History: 1979 AC; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.3877**

Source: 1979 AC.

**OFFICE OF SUBSTANCE ABUSE SERVICES**  
**SUBSTANCE ABUSE SERVICES PROGRAMS**

**R 325.4001**

Source: 1997 AACS.

**R 325.4002**

Source: 1997 AACS.

**R 325.4003**

Source: 1997 AACS.

**R 325.4004**

Source: 1997 AACS.

**R 325.4005**

Source: 1997 AACS.

**R 325.4006**

Source: 1997 AACS.

**R 325.4007**

Source: 1997 AACS.

**R 325.4008**

Source: 1997 AACS.

**R 325.4009**

Source: 1997 AACS.

**R 325.4010**

Source: 1997 AACS.

**R 325.4011**

Source: 1997 AACS.

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**R 325.4012**  
Source: 1997 AACS.

**R 325.4013**  
Source: 1997 AACS.

**R 325.4014**  
Source: 1997 AACS.

**R 325.4015**  
Source: 1997 AACS.

**R 325.4016**  
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**R 325.4017**  
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**R 325.4018**  
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**R 325.4019**  
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**R 325.4021**  
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**R 325.4022**  
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**R 325.4024**  
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**R 325.4025**  
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**R 325.4027**  
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**R 325.4031**  
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**R 325.4032**  
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**R 325.4033**  
Source: 1997 AACS.

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**R 325.4034**  
Source: 1997 AACS.

**R 325.4035**  
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**R 325.4036**  
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**R 325.4037**  
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**R 325.4041**  
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**R 325.4045**  
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**R 325.4046**  
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**R 325.4047**  
Source: 1997 AACS.

**R 325.4048**  
Source: 1997 AACS.

**R 325.4051**  
Source: 1997 AACS.

**R 325.4052**  
Source: 1997 AACS.

**R 325.4053**  
Source: 1997 AACS.

**R 325.4054**  
Source: 1997 AACS.

**R 325.4055**  
Source: 1997 AACS.

**R 325.4056**

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Source: 1997 AACCS.

**R 325.4057**

Source: 1997 AACCS.

**R 325.4058**

Source: 1997 AACCS.

**R 325.4061**

Source: 1997 AACCS.

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Source: 1997 AACCS.

**R 325.4065**

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**R 325.4066**

Source: 1997 AACCS.

**R 325.4067**

Source: 1997 AACCS.

**R 325.4071**

Source: 1997 AACCS.

**R 325.4081**

Source: 1997 AACCS.

**R 325.4082**

Source: 1997 AACCS.

**R 325.4083**

Source: 1997 AACCS.

**R 325.4084**

Source: 1997 AACCS.

**PROGRAM MATCH REQUIREMENTS**

**R 325.4151**

Source: 1981 AACCS.

**R 325.4152**

Source: 1981 AACCS.

**R 325.4153**

Source: 1981 AACCS.

**R 325.4154**

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Source: 1997 AACS.

**R 325.4155**

Source: 1981 AACS.

**R 325.4156**

Source: 1981 AACS.

**DEPARTMENT OF CONSUMER & INDUSTRY SERVICES**

**RADIATION SAFETY**

**SECTION**

**R 325.5051**

Source: 1979 AC.

**R 325.5074**

Source: 1979 AC.

**R 325.5101**

Source: 1979 AC.

**R 325.5102**

Source: 1979 AC.

**R 325.5117a**

Source: 1979 AC.

**R 325.5118**

Source: 1979 AC.

**R 325.5119**

Source: 1979 AC.

**R 325.5120**

Source: 1979 AC.

**R 325.5122**

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**R 325.5141**

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Source: 1979 AC.

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**R 325.5145**

Source: 1979 AC.

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**R 325.5147**  
Source: 1979 AC.

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**RADIATION SAFETY SECTION**

**R 325.5181**  
Source: 1979 AC.

**R 325.5182**  
Source: 1979 AC.

**R 325.5183**  
Source: 1979 AC.

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**R 325.5195**  
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**R 325.5196**  
Source: 1979 AC.

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**RADIATION SAFETY SECTION**

**R 325.5281**

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Source: 1979 AC.

**R 325.5282**

Source: 1979 AC.

**R 325.5286**

Source: 1979 AC.

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Source: 1979 AC.

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**R 325.5302**

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**R 325.5305**

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**R 325.5306**

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**R 325.5307**

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**R 325.5309**

Source: 1979 AC.

**DEPARTMENT OF COMMUNITY HEALTH**

**DIRECTOR'S OFFICE**

**BUREAU OF HEALTH SYSTEMS – RADIATION SAFETY SECTION**

**R 325.5311**  
Source: 1979 AC.

**R 325.5312**  
Source: 1979 AC.

**R 325.5315**  
Source: 1979 AC.

**R 325.5317**  
Source: 1979 AC.

**R 325.5321**  
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**R 325.5322**  
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**R 325.5323**  
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**R 325.5325**  
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**R 325.5331**  
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**R 325.5333**  
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**R 325.5337**  
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- R 325.5358**  
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- R 325.5388**  
Source: 1979 AC.
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- R 325.5395**  
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- R 325.5396**  
Source: 2007 AACCS.
- R 325.5397**  
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- R 325.5401**  
Source: 1979 AC.
- R 325.5402**  
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- R 325.5403**  
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- R 325.5404**  
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- R 325.5407**  
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- R 325.5409**  
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- R 325.5422**  
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- R 325.5423**  
Source: 1979 AC.

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**R 325.5425**  
Source: 1979 AC.

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**RADIATION SAFETY SECTION**

**R 325.5431**  
Source: 1979 AC.

**R 325.5432**  
Source: 1979 AC.

**R 325.5435**  
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**R 325.5450**  
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**R 325.5452**  
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**R 325.5455**  
Source: 1979 AC.

**R 325.5481**

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Source: 1979 AC.

**R 325.5482**

Source: 1979 AC.

**R 325.5484**

Source: 1979 AC.

**R 325.54855**

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**R 325.5487**

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**R 325.5491**

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**R 325.5492**

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**R 325.5493**

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**R 325.5494**

Source: 1979 AC.

**R 325.5495**

Source: 1979 AC.

**R 325.5501**

Source: 1979 AC.

**R 325.5505**

Source: 1979 AC.

**R 325.5506**

Source: 1979 AC.

**R 325.5507**

Source: 1979 AC.

**R 325.5508**

Source: 1979 AC.

**R 325.5511**

Source: 1979 AC.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**DIVISION OF RADIOLOGICAL HEALTH**  
**IONIZING RADIATION**  
**PART 14. MAMMOGRAPHY**  
**GENERAL PROVISIONS**

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**R 325.5601 Purpose and scope.**

Rule 601. (1) This part establishes requirements governing the use of x-radiation for mammography and applies to all persons who use x-radiation for mammography for the intentional exposure of humans. A person shall not use a radiation machine to perform mammography unless the radiation machine is registered with the department pursuant to R 325.5181 to R 325.5196 and is specifically authorized to perform mammography pursuant to the act.

(2) In addition to the requirements of this part, all persons are subject to all applicable provisions of R 325.5001 to R 325.5721.

(3) A facility shall not misrepresent to its employees, to the public, or to the department its status with respect to accreditation of the mammography equipment by the American college of radiology, department authorization to perform mammography, or compliance with department rules.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5601a Adoption by reference.**

Rule 601a. Some of these rules refer to all or parts of the following nationally recognized standards, which are adopted by reference and identified by date:

(a) Standards of the United States department of health & human services, title 21 - food and drugs, part 900 - mammography. These standards are available for no cost from either of the following sources:

(i) The website of the Michigan department of licensing and regulatory affairs, radiation safety section at <http://www.michigan.gov/rss>

(ii) The website of the United States department of health & human services, mammography quality standards act and program at <http://www.fda.gov/Radiation-EmittingProducts/MammographyQualityStandardsActandProgram/default.htm>

(b) The regulations in 21 C.F.R. 1020.30, "Diagnostic x-ray systems and their major components" (April 2007), and 21 C.F.R. 1020.31, "Radiographic equipment" (June 2005). These regulations are available for no cost from either of the following sources:

(i) The website of the Michigan department of licensing and regulatory affairs, radiation safety section at <http://www.michigan.gov/rss>

(ii) The website of the United States department of health & human services, U.S. Food and Drug Administration at <http://www.accessdata.fda.gov/scripts/cdrh/cfdocs/cfcfr/cfrsearch.cfm>

(c) Criteria of the American college of radiology, "Mammography Accreditation Program Requirements" (May 2012), and "Stereotactic Breast Biopsy Accreditation Program Requirements" (May 2012). These criteria are available for no cost from either of the following sources:

(i) The website of the Michigan department of licensing and regulatory affairs, radiation safety section at <http://www.michigan.gov/rss>.

(ii) The website of the American college of radiology at <http://www.acr.org>.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5602 Definitions.**

Rule 602. (1) As used in this part the definitions in 21 C.F.R. 900.2, "Definitions" (2002), are adopted by reference with the exception of the definition of "mammography."

(2) As used in this part the following definitions apply:

(a) "Act" means 1978 PA 368, as amended, MCL 333.1101 to 333.25211.

(b) "Annual" means a period of 12 consecutive months.

(c) "Interpreting physician" means a physician who interprets mammograms and who meets the requirements of R 325.5627 to R 325.5629.

(d) "Mammography" means radiography of the breast for the purpose of enabling a physician to determine the presence, size, location, and extent of cancerous or potentially cancerous tissue in the breast. Mammography includes interventional mammography.

(e) "Stereotactic breast biopsy" means the imaging of a breast performed in at least 2 planes to localize a target lesion during invasive interventions for biopsy procedures.

(f) "Stereotactic breast biopsy physician" means a physician licensed under article 15 of the act who conducts stereotactic breast biopsy.

(3) The terms defined in the act shall have the same meanings when used in these rules.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5603 Department inspections.**

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Rule 603. (1) The department shall inspect a mammography machine and system not later than 60 days after initial mammography authorization is issued. After that initial inspection, the department shall annually inspect the mammography machine and system. The department may inspect more frequently than annually.

(2) After each satisfactory inspection by the department, the department shall issue a certificate of radiation machine inspection which identifies the facility and the machine inspected and which provides a record of the date that the machine was inspected. The facility shall conspicuously post the certificate on or near the inspected machine and in a location that is observable by patients.

(3) The department may issue a notice of violations certificate if violations found during an inspection are not corrected within the specified time limit or if the department has not received written verification of corrections within the specified time limit. The notice of violations certificate shall be conspicuously posted on or near the inspected machine and in a location observable by patients.

(4) A facility shall remove the certificate of radiation machine inspection if directed by the department due to subsequent failure to comply with this part and applicable provisions of R 325.5001 to R 325.5721 as determined by follow-up inspections by the department.

(5) In conducting inspections, the department shall have access to all equipment, materials, records, personnel, and information that the department considers necessary to determine compliance with these rules. The department may copy, or require the facility to submit to the department, any of the materials, records, or information considered necessary to determine compliance with these rules.

(6) The department shall designate department employees to conduct regulatory inspections.

(7) The department may conduct tests and evaluations as the department deems appropriate to determine compliance with all of the provisions of this part and the provisions of R 325.5001 to R 325.5721.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**MAMMOGRAPHY AUTHORIZATION**

**R 325.5605 Standards for authorization.**

Rule 605. The department shall issue a 3-year mammography authorization if the mammography facility is in compliance with all of the following standards:

(a) The radiation machine meets any of the following requirements:

(i) The machine and the facility in which the machine is used meet the criteria for the American college of radiology mammography accreditation program dated May 2012, and the facility submits an evaluation report issued by the American college of radiology as evidence that the criteria are met. The criteria are adopted by reference in these rules for the purpose of applying this paragraph only.

(ii) A machine used for stereotactic breast biopsy and the facility in which the machine is used meet the criteria of the American college of radiology stereotactic breast biopsy accreditation program dated May 2012, and the facility submits an evaluation report issued by the American college of radiology as evidence that the criteria are met. The criteria are adopted by reference in these rules for the purpose of applying this paragraph only. A mammography machine that uses a specially designed add-on device for breast biopsy shall be authorized for both mammography and stereotactic breast biopsy.

(iii) The machine is used in a facility that has successfully completed the department's evaluation of the items described in R 325.5610.

(b) The radiation machine, the film or other image receptor that is used with the machine, and the facility where the machine is used comply with the requirements of this part and applicable provisions of R 325.5001 to R 325.5721.

(c) The radiation machine is specifically designed to perform mammography.

(d) The radiation machine is used exclusively to perform mammography.

(e) The radiation machine is used in a facility that, before the machine is used on patients and at least annually thereafter, has a qualified medical physicist provide on-site consultation to the facility as described in these rules. Records and findings of on-site consultations shall be maintained for not less than 7 years.

(f) The radiation machine is used according to R 325.5667 of this part or R 325.5690 for stereotactic breast biopsy.

(g) The radiation machine is operated only by an individual who can demonstrate to the department that he or she meets the standards described in this part.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5606**

**Source:** 1993 AACCS.

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**R 325.5607 Application.**

Rule 607. (1) An applicant who seeks mammography authorization shall apply to the department using an application form that is supplied by the department. If mammography is performed at more than 1 address, a separate application shall be used for each address. An applicant shall accurately provide all information that is requested on the form. The information submitted as part of the application shall be sufficient, as determined by the department, to address all of the standards for authorization. Applications that do not provide sufficient information shall be returned to the applicant for completion and resubmission. Applications shall include all of the following information:

- (a) Information about the facility, including all of the following:
    - (i) Mammography facility name, address, and telephone number.
    - (ii) Type of practice.
    - (iii) The facility registration number, if currently registered.
    - (iv) A contact person's name and telephone number.
  - (b) Personnel information, including the education, training, experience, and certification of the lead interpreting physician, any qualified medical physicist who provides on-site consultation, and any radiologic technologist who performs mammography.
  - (c) Mammography machine technical information, including all of the following:
    - (i) Machine registration number, if currently registered.
    - (ii) Manufacturer.
    - (iii) Model.
    - (iv) Target material.
    - (v) Filter material.
  - (d) Imaging system information, including all of the following:
    - (i) The type of imaging system being used.
    - (ii) Review workstation monitor information, if the machine uses digital imaging.
    - (iii) Laser printer information, as applicable, for machines using digital imaging.
    - (iv) Film and screen information, if the machine uses screen-film imaging.
    - (v) Film processor information, if the machine uses screen-film imaging.
  - (e) The date of the most recent medical physicist survey.
- (2) The department shall respond to an application within 30 days after the date of receipt of the application.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5608 Application fee schedule; waiver.**

Rule 608. (1) An application form for mammography authorization shall be accompanied by a nonrefundable payment, in full, by the applicant, for department evaluation of compliance with the provisions of R 325.5605 (a). The fee schedule is specified in the act.

(2) If an applicant for mammography authorization submits an evaluation report which is issued by the American college of radiology and which demonstrates compliance with the provisions of R 325.5605 (a), then the fee for department evaluation of compliance with the provisions of R 325.5605 (a) shall be waived.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5609**

**Source:** 1993 AACCS.

**R 325.5610 Supplemental machine information; effect of failure to submit information.**

Rule 610. (1) Upon notice from the department that an application for mammography authorization is complete and complies with these rules and at the specific request of the department, the applicant shall, within 45 days of the department's request, provide all of the following information for each radiation machine for which mammography authorization is being sought:

- (a) Confirmation that a department-approved mammography phantom is on-site when mammography is performed and is used in the facility's ongoing quality control program.
- (b) Processor or laser film printer quality control data and corrective actions, if any, taken as a result of that data for a 30-day period beginning after the date the application was sent to the department.
- (c) An x-ray image of a department-approved mammography phantom which is taken during the 30-day period for which processor quality control data is required under subdivision (b) of this subrule. The phantom image shall be taken using routine machine settings being used by the facility for that mammography machine for a 4.2-centimeter compressed breast of average density. The phantom image shall be accompanied by documentation of the date that the image was taken and the machine settings that were used.

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(d) Determinations of the half-value layer, radiation exposure at skin entrance, and mean glandular dose that are made with the use of a department-approved dosimetry device exposed on the phantom during the same exposure of the phantom that is used to produce an x-ray image to be submitted under subdivision (c) of this subrule or that are made by other methods as specified or approved by the department.

(e) A set of clinical images produced on or after the date that the application was sent to the department. Mammography images shall be without pathology for each of 2 representative patients, 1 with dense breasts and 1 with fatty breasts. Stereotactic breast biopsy images shall be from 1 calcification biopsy case that demonstrates accurate needle location and includes the case's corresponding mammograms. The submitted images shall meet all of the following:

(i) The cases are examples of the facility's best work.

(ii) The images are from actual patients.

(iii) Both screen-film and digital images are labeled with the identification information required in R 325.5657 for mammography images or R 325.5683 for stereotactic breast biopsy images.

(iv) The lead interpreting physician reviews and approves the clinical images.

(2) The department may waive the requirements of subrule (1) of this rule if the mammography machine is accredited, or is in the process of becoming accredited, by the American college of radiology. To have the requirements of subrule (1) of this rule waived, an applicant shall provide, to the department, within 45 days of the department's request, copies of the applicant's current accreditation application, current accreditation-related correspondence to and from the American college of radiology, or current accreditation certificate that is issued by the American college of radiology.

(3) Failure of an applicant to submit the information required by the provisions of either subrule (1) or (2) of this rule within 45 days of the department's request may be considered a basis for withdrawal or denial of the mammography authorization, unless the time limit is extended by the department for cause.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5611 Contracts for technical evaluation.**

Rule 611. (1) In evaluating clinical image quality and acceptability for mammography authorization, upon receipt of the information required in R 325.5610 (1) (e), the department may enter into any necessary contracts with mammography experts, submit the images to those experts for technical evaluation, and rely upon their expert evaluation in arriving at a department conclusion regarding image quality and acceptability in terms of granting or not granting mammography authorization.

(2) Technical parameters that are used in evaluating clinical image quality and acceptability pursuant to subrule (1) of this rule shall include judgments of all of the following:

(a) Positioning.

(b) Compression.

(c) Radiation exposure and dose level.

(d) Sharpness.

(e) Contrast.

(f) Noise.

(g) Exam identification.

(h) Artifacts.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5612 Notice of change in application information; authorization not transferable.**

Rule 612. (1) A facility that is authorized to perform mammography shall notify the department, in writing, of any change in the information contained in the application or supporting material upon which authorization was granted or any change that affects the accuracy of information which is provided or obtained during the application and evaluation process for authorization. Changes that shall be reported include changes in any of the following:

(a) Facility ownership.

(b) Facility location.

(c) Mammography machine.

(d) Image modality.

(e) American college of radiology accreditation status.

(2) Upon receipt of a notice of change, the department shall advise the facility if reapplication for mammography authorization, resubmittal of phantom or clinical images, or other actions are deemed by the department to be necessary to establish that the facility, machine, system, and personnel remain in compliance with the requirements of these rules. Upon department request, a facility shall provide any requested information or materials within 45 days after the request is made.

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(3) If changes in information are deemed to require reapplication for mammography authorization, the application shall be filed and processed in the same manner as set forth in R 325.5607 and R 325.5608.

(4) Mammography authorization that is issued by the department is not transferable between machines or between persons who own or lease a radiation machine.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5613 Authorization withdrawal; reinstatement.**

Rule 613. (1) Three-year mammography authorization is subject to continued compliance with this part and the provisions of R 325.5001 to R 325.5721. Authorization may be withdrawn based on evidence of noncompliance with this part and the provisions of R 325.5001 to R 325.5721 in accordance with the provisions of 1969 PA 306, MCL 24.201 to 24.328.

(2) If the department withdraws the mammography authorization of a machine, the machine shall not be used for mammography. An application for reinstatement of a mammography authorization shall be filed and processed in the same manner as an application for mammography authorization under R 325.5607 and R 325.5608.

(3) The department shall not issue a reinstated mammography authorization until the department receives the reinspection fee, inspects the machine, and determines that the facility meets the standards in R 325.5605.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**MAMMOGRAPHY SUPERVISOR**

**R 325.5617 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5618 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5619 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**OPERATORS OF MAMMOGRAPHY EQUIPMENT**

**R 325.5621 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5622 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5623 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5624 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5625 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**PERSONNEL**

**R 325.5626 Scope of personnel requirements.**

Rule 626. The requirements of R 325.5627 to R 325.5634 apply to all personnel involved in any aspect of mammography, including but not limited to, the production, processing, and interpretation of mammograms and related quality assurance activities.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5627 Interpreting physician initial qualifications.**

Rule 627. Before beginning to interpret mammograms independently, an interpreting physician shall meet all of the following requirements:

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(a) Be licensed as a physician or osteopathic physician under article 15 of the act to practice medicine.

(b) Meet either of the following requirements:

(i) Be certified in radiology or diagnostic radiology by the American board of radiology, the American osteopathic board of radiology, or the royal college of physicians and surgeons of Canada; have been eligible for certification in radiology or diagnostic radiology for not more than 2 years; or, be certified or determined to be qualified in radiology or diagnostic radiology by another professional organization determined by the department to have procedures and requirements adequate to ensure that physicians certified by the body are competent to interpret radiological procedures, including mammography.

(ii) If the physician has been eligible for certification in radiology or diagnostic radiology for less than 2 years, he or she shall have had at least 3 months of documented formal training in the interpretation of mammograms and in topics related to mammography. The training shall include instruction in radiation physics, including radiation physics specific to mammography, radiation effects, and radiation protection. The mammographic interpretation component of the training shall be under the direct supervision of a physician who meets the requirements of this rule.

(c) Have a minimum of 60 hours of documented medical education in mammography, including instruction in the interpretation of mammograms and education in basic breast anatomy, pathology, physiology, technical aspects of mammography, and quality assurance and quality control in mammography. All 60 of these hours shall be category 1 and at least 15 of the category 1 hours shall have been acquired within the 3 years immediately prior to the date that the physician qualifies as an interpreting physician. Hours spent in residency specifically devoted to mammography are considered as equivalent to category 1 continuing education credits and shall be accepted if documented in writing by the appropriate representative of the training institution. A physician who meets the board certification requirements of subdivision (b) (i) of this rule is deemed to have met this requirement.

(d) Have interpreted or multi-read at least 240 mammographic examinations within the 6-month period immediately prior to the date that the physician qualified as an interpreting physician. The interpretation or multi-reading shall be under the direct supervision of an interpreting physician. A physician who becomes appropriately board certified at the first allowable time, as defined by an eligible certifying body, shall have interpreted or multi-read at least 240 mammographic examinations under the direct supervision of an interpreting physician in any 6-month period during the last 2 years of a diagnostic radiology residency. A physician who was qualified to interpret mammograms prior to the effective date of this rule is considered to have met the requirements of this subdivision.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5628 Interpreting physician continuing experience and education.**

Rule 628. An interpreting physician shall maintain his or her qualifications by meeting the continuing experience and education requirements of 21 C.F.R. 900.12 (a) (1) (ii), "Personnel – Interpreting physicians – Continuing experience and education" (2000).

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5629 Interpreting physician reestablishment of qualifications.**

Rule 629. An interpreting physician who failed to maintain the required continuing experience or continuing education requirements of R 325.5628 shall reestablish his or her qualifications before resuming the independent interpretation of mammograms by meeting the reestablishing qualifications requirements of 21 C.F.R. 900.12 (a) (1) (iv), "Personnel – Interpreting physicians – Reestablishing qualifications" (2000).

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5630 Radiologic technologists.**

Rule 630. All mammographic examinations shall be performed by a radiologic technologist who meets the general requirements, mammography requirements, continuing education requirements, and continuing experience requirements of 21 C.F.R. 900.12 (a) (2), "Radiologic technologists" (2000), with the exception of 21 C.F.R. 900.12 (a) (2) (i) (A).

History: 2013 MR 8, Eff. April 17, 2013.

**RADIATION PHYSICIST**

**R 325.5631 Rescinded.**

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History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5632 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5633 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5634 Medical physicists.**

Rule 634. A medical physicist who conducts surveys of mammography facilities and provides oversight of a facility's quality assurance program shall meet the initial qualifications, continuing qualifications and reestablishing qualification requirements of 21 C.F.R. 900.12 (a) (3), "Medical physicists" (2000).

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5635 Retention of personnel records.**

Rule 635. A mammography facility shall maintain records to document the qualifications of all personnel who work at the facility as interpreting physicians, radiologic technologists, or medical physicists. These records shall be made available for review during department inspections. Records of personnel no longer employed by the mammography facility shall be kept on file until the next inspection following the employee's termination has been completed, and the department determines that the facility complies with the personnel requirements.

History: 2013 MR 8, Eff. April 17, 2013.

**X-RAY EQUIPMENT**

**R 325.5637 X-ray equipment; requirements.**

Rule 637. (1) The mammographic x-ray equipment shall be maintained in compliance with the applicable regulations in 21 C.F.R. 1020.30, "Diagnostic x-ray systems and their major components" (2007), and 21 C.F.R. 1020.31, "Radiographic equipment" (2005).

(2) The mammography machine, x-ray film, intensifying screens, film processing solutions, film illumination, and film masking devices shall meet the requirements of 21 C.F.R. 900.12 (b), "Equipment" (2000).

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5638 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5639 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5640 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5641 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5642 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5643 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5644 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5645 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

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**R 325.5646 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5647 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5648 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5649 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5650 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5651 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5652 Rescinded.**

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5655 Enclosure requirements; use of mobile equipment.**

Rule 655. (1) A fixed x-ray equipment enclosure shall comply with the requirements of R 325.5331.

(2) For mammography, the operator's barrier shall provide radiation protection that is equivalent to not less than 0.5 millimeter of lead when the maximum tube potential is less than or equal to 35 kilovolts and 0.8 millimeter of lead when the maximum tube potential is greater than 35 kilovolts.

(3) An individual operating a mobile or portable mammography machine shall wear a protective apron of a minimum 0.5 millimeter lead equivalence unless shielding is provided as specified in subrule (2) of this rule.

(4) Mobile or portable mammography equipment used routinely in 1 location shall be considered a fixed installation and shall comply with the requirements of R 325.5331.

(5) Mobile or portable mammography equipment shall not be used for routine mammography in hospitals or private offices of practitioners of the healing arts. This equipment shall be used only when it is medically inadvisable to move a patient to a fixed mammographic installation.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5656 Conditions of operation.**

Rule 656. The operation of each mammography x-ray machine shall comply with R 325.5333.

History: 1993 AACCS; 2013 MR 8, Eff. April 17, 2013.

**MEDICAL RECORDS AND MAMMOGRAPHY REPORTS**

**R 325.5657 Medical records and mammography reports.**

Rule 657. A mammography facility shall comply with 21 C.F.R. 900.12 (c), "Medical records and mammography reports" (2000), except that the reference to retention of records in 21 C.F.R. 900.12 (c) (4) (i) is changed from "not less than 5 years" to "not less than 7 years" in accordance with MCL 333.20175.

History: 2013 MR 8, Eff. April 17, 2013.

**QUALITY ASSURANCE**

**R 325.5658 Quality assurance - general.**

Rule 658. A mammography facility shall comply with 21 C.F.R. 900.12 (d), "Quality assurance general" (2000).

History: 2013 MR 8, Eff. April 17, 2013.

## QUALITY CONTROL

**R 325.5659 Rescinded.**

History: 1993 AACS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5660 Rescinded.**

History: 1993 AACS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5661 Rescinded.**

History: 1993 AACS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5662 Rescinded.**

History: 1993 AACS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5663 Rescinded.**

History: 1993 AACS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5664 Rescinded.**

History: 1993 AACS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5665 Rescinded.**

History: 1993 AACS; 2013 MR 8, Eff. April 17, 2013.

**R 325.5667 Quality assurance – equipment.**

Rule 667. A mammography facility shall comply with 21 C.F.R. 900.12 (e), “Quality assurance – equipment” (2000).

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5668 Quality assurance - mammography medical outcomes audit; mammographic procedure and techniques for mammography of patients with breast implants; consumer complaint mechanism; and clinical image quality.**

Rule 668. A mammography facility shall comply with 21 C.F.R. 900.12 (f), “Quality assurance – mammography medical outcomes audit” (2000); 21 C.F.R. 900.12 (g), “Mammographic procedure and techniques for mammography of patients with breast implants” (2000); 21 C.F.R. 900.12 (h), “Consumer complaint mechanism” (2000) and 21 C.F.R. 900.12 (i), “Clinical image quality” (2000).

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5669 Alternative requirements for personnel, x-ray equipment, medical records and mammography reports, and quality assurance.**

Rule 669. The department may accept alternatives to a quality standard under 21 CFR 900.12 that have been approved by the U.S. Food and Drug Administration under 21 CFR 900.18, “Alternative requirements for § 900.12 quality standards” (2000).

History: 2013 MR 8, Eff. April 17, 2013.

## STEREOTACTIC BREAST BIOPSY

### PERSONNEL

**R 325.5674 Radiologic technologists.**

Rule 674. All stereotactic breast biopsy procedures shall be performed by a radiologic technologist who meets all of the following requirements:

(a) Initial qualifications. Before beginning to perform stereotactic breast biopsy procedures independently, a technologist shall do all of the following:

(i) Meet the requirements of R 325.5630.

(ii) Have 3 hours of category A continuing education units in stereotactic breast biopsy.

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(iii) Have performed 5 stereotactic breast biopsy procedures under supervision of a stereotactic breast biopsy physician or a qualified stereotactic breast biopsy technologist.

(b) Continuing experience. Following the second anniversary date of the end of the calendar quarter in which the initial qualifications of subdivision (a) of this rule were completed, the stereotactic breast biopsy technologist shall have performed at least 24 stereotactic breast biopsy procedures during the 24 months immediately preceding the date of the facility's annual inspection or the last day of the calendar quarter preceding the inspection or any date in between the 2. The facility shall choose 1 of these dates to determine the 24-month period.

(c) Continuing education. A technologist shall comply with the American registry of radiologic technologist's requirements for continuing education for the imaging modality in which he or she performs services. The continuing education shall include credits pertinent to stereotactic breast biopsy.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5675 Medical physicists.**

Rule 675. A stereotactic breast biopsy medical physicist shall meet all of the following requirements:

(a) Initial qualifications. Before independently performing surveys of stereotactic breast biopsy facilities a medical physicist shall have complied with all of the following:

(i) Met the requirements of R 325.5634.

(ii) Have performed 1 hands-on stereotactic breast biopsy physics survey under a qualified stereotactic breast biopsy medical physicist or 3 independent stereotactic breast biopsy surveys before the effective date of this rule.

(b) Continuing experience. Following the second anniversary date of the end of the calendar quarter in which the initial qualifications of subdivision (a) of this rule were completed, the stereotactic breast biopsy medical physicist shall have performed at least 2 stereotactic breast biopsy physics surveys during the 24 months immediately preceding the date of the facility's annual inspection or the last day of the calendar quarter preceding the inspection or any date in between the 2. The facility shall choose 1 of these dates to determine the 24-month period.

(c) Continuing education. Following the third anniversary date of the end of the calendar quarter in which the initial qualifications of subdivision (a) of this rule were completed, the stereotactic breast biopsy medical physicist shall have completed at least 3 continuing medical education credits in stereotactic breast biopsy during the 36 months immediately preceding the date of the facility's annual inspection or the last day of the calendar quarter preceding the inspection or any date in between the 2. The facility shall choose 1 of these dates to determine the 36-month period.

History: 2013 MR 8, Eff. April 17, 2013.

**X-RAY EQUIPMENT**

**R 325.5676 Equipment requirements.**

Rule 676. (1) The stereotactic breast biopsy mammographic x-ray equipment shall comply with the requirements of R 325.5325 (1) and (17) to (23).

(2) A machine that is used for stereotactic breast biopsy shall be 1 of the following:

(i) A radiation machine that is specifically designed to perform stereotactic breast biopsy.

(ii) A mammography machine with a specially designed add-on device for breast biopsy.

(iii) A mammography machine that exclusively uses lateral arm devices if the needle can be seen in 2 ways in relation to the target lesion.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5677 Enclosures; use of mobile equipment.**

Rule 677. (1) A fixed x-ray equipment enclosure shall comply with R 325.5331.

(2) For stereotactic breast biopsy, the operator's barrier shall provide radiation protection that is equivalent to not less than 0.5 millimeter of lead when the maximum tube potential is less than or equal to 35 kilovolts and 0.8 millimeter of lead when the maximum tube potential is greater than than 35 kilovolts.

(3) An individual operating mobile or portable stereotactic breast biopsy equipment shall wear a protective apron of a minimum 0.5 millimeter lead equivalence unless shielding is provided as specified in subrule (2) of this rule.

(4) Mobile or portable stereotactic breast biopsy equipment used routinely in 1 location shall be considered a fixed installation and shall comply with the requirements of R 325.5331.

(5) Mobile or portable stereotactic breast biopsy equipment shall not be used for routine mammography in hospitals or private offices of physicians or osteopathic physicians. This equipment shall be used only when it is medically inadvisable to move a patient to a fixed mammographic installation.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5678 Conditions of operation.**

Rule 678. The operation of a mammography x-ray machine shall comply with R 325.5333.

History: 2013 MR 8, Eff. April 17, 2013.

**MEDICAL RECORDS AND STEREOTACTIC BREAST BIOPSY REPORTS**

**R 325.5679 Report contents.**

Rule 679. A stereotactic breast biopsy facility shall prepare a written report of the results of each stereotactic breast biopsy procedure. The stereotactic breast biopsy report shall include all of the following information:

- (a) The name of the patient and an additional unique patient identifier.
- (b) The date of the procedure.
- (c) The name of the stereotactic breast biopsy physician who conducted the procedure.
- (d) The procedure performed.
- (e) Designation of the left or right breast.
- (f) Description and location of the lesion.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5681 Communication of stereotactic breast biopsy results to health care providers.**

Rule 681. When a patient has a referring health care provider or a patient has named a health care provider, the stereotactic breast biopsy facility shall provide a written report of the stereotactic breast biopsy procedure, including the items listed in R 325.5679, to that health care provider not later than 30 days after the date that the stereotactic breast biopsy procedure was performed.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5682 Record keeping.**

Rule 682. (1) A facility that performs stereotactic breast biopsy procedures shall comply with both of the following:

- (a) Maintain stereotactic breast biopsy images and reports in a permanent medical record of the patient for a period of not less than 7 years, or not less than 10 years if no additional stereotactic breast biopsy procedures of the patient are performed at the facility.
- (b) Upon request by, or on behalf of, a patient, permanently or temporarily transfer the original stereotactic breast biopsy images and copies of the patient's reports to any of the following:
  - (i) A medical institution.
  - (ii) A patient's physician.
  - (iii) The patient directly.

(2) Any fee a facility charges a patient for providing the services specified in subrule (1) (b) of this rule shall not exceed the documented costs associated with this service.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5683 Stereotactic breast biopsy image identification.**

Rule 683. A stereotactic breast biopsy image shall have the following information indicated on it in a permanent, legible, and unambiguous manner and placed so as not to obscure anatomic structures:

- (a) Name of patient and an additional unique patient identifier.
- (b) Date of the procedure.
- (c) Designation of left or right breast.
- (d) Cassette identification, if applicable.
- (e) Stereotactic breast biopsy unit identification if there is more than 1 unit in the facility.

History: 2013 MR 8, Eff. April 17, 2013.

**QUALITY ASSURANCE**

**R 325.5684 Quality assurance – general.**

Rule 684. A stereotactic breast biopsy facility shall establish and maintain a quality assurance program to ensure the safety, reliability, clarity, and accuracy of stereotactic breast biopsy services performed at the facility.

History: 2013 MR 8, Eff. April 17, 2013.

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**R 325.5685 Responsible individuals.**

Rule 685. Responsibility for the quality assurance program and for each of its elements shall be assigned to the following individuals who are qualified for their assignments:

(a) Lead stereotactic breast biopsy physician. The facility shall identify a lead stereotactic breast biopsy physician who shall be responsible for ensuring that the quality assurance program meets all requirements of R 325.5684 to R 325.5698. No other individual shall be assigned or shall retain responsibility for quality assurance tasks unless the lead stereotactic breast biopsy physician has determined that the individual is qualified to perform the assignment.

(b) Stereotactic breast biopsy physicians. All stereotactic breast biopsy physicians conducting stereotactic breast biopsy procedures for the facility shall do both of the following:

(i) Follow the facility's procedures for corrective action when the images they are asked to interpret are of poor quality.

(ii) Participate in the facility's medical outcomes audit program.

(c) Medical physicist. The facility shall have the services of a medical physicist available to survey stereotactic breast biopsy equipment and oversee the equipment-related quality assurance practices of the facility. The medical physicist shall be responsible for performing the surveys and stereotactic breast biopsy equipment evaluations and providing the facility with the reports described in R 325.5693 and R 325.5694.

(d) Quality control technologist. Responsibility for tasks within the quality assurance program not assigned to the lead stereotactic breast biopsy physician or the medical physicist shall be assigned to a quality control technologist. The tasks are to be performed by the quality control technologist, but may be delegated to other qualified personnel by the quality control technologist. When other personnel are utilized for these tasks, the quality control technologist shall ensure that they were completed in compliance with R 325.5687.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5686 Quality assurance records.**

Rule 686. (1) The lead stereotactic breast biopsy physician, quality control technologist, and medical physicist shall ensure that records concerning the following items are properly maintained and updated:

(a) Stereotactic breast biopsy techniques and procedures.

(b) Quality control, including monitoring data and corrective actions taken.

(c) Safety.

(d) Employee qualifications to meet assigned quality assurance tasks.

(2) The quality assurance records specified in subrule (1) of this rule shall be kept for each test specified in R 325.5684 to R 325.5698 until the next annual inspection has been completed and the department has determined that the facility is in compliance with the quality assurance requirements, or until the test has been performed 2 additional times at the required frequency, whichever is longer.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5687 Radiologic technologist quality control tests.**

Rule 687. A stereotactic breast biopsy facility shall have a radiologic technologist perform the following quality control tests at the intervals specified in this rule:

(a) A localization accuracy test shall be performed daily before the equipment is used on patients. Each of the indicated needle tip coordinates shall be within 1 millimeter of the actual preset needle tip location.

(b) A phantom image evaluation shall be performed at least weekly. The phantom image shall achieve at least the minimum score established in R 325.5689.

(c) A hard copy output quality test shall be performed at least monthly, if hard copies are produced from digital data.

(d) A compression test shall be performed at least semiannually. The maximum compression force for the power drive mode shall be between 25 pounds and 45 pounds.

(e) A repeat analysis shall be performed at least semiannually. If the overall repeat or reject rate exceeds 20% based on an image volume of not less than 150 patients, the reason for the change shall be determined. A repeat analysis shall be assessed semiannually even if fewer than 150 patients are examined during that period.

(f) If stereotactic breast biopsy is performed using a screen-film system, the following tests shall be required:

(i) A processor quality control test shall be performed at least daily. Film processors used to develop stereotactic breast biopsy films shall be adjusted and maintained to meet the technical development specifications for the mammography film in use. A processor performance test shall be performed at the beginning of each operational day before processing any clinical images. The test shall use the mammography film used clinically at the facility and shall include an assessment of base plus fog density, mid-density, and density difference as follows:

(A) The base plus fog density shall be within 0.03 of the established operating level.

(B) The mid-density shall be within plus or minus 0.15 of the established operating level.

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(C) The density difference shall be within plus or minus 0.15 of the established operating level.

(ii) An analysis of fixer retention in film assessed at least quarterly. The residual fixer shall be not more than 5 micrograms per square centimeter.

(iii) A screen-film contact test shall be performed at least semiannually. Testing for screen-film contact shall be conducted using 40 mesh copper screen. All cassettes used in the facility for stereotactic breast biopsy shall be tested.

(iv) A test of darkroom fog shall be performed at least semiannually. The optical density attributable to darkroom fog shall not exceed 0.05 when a mammography film of the type used in the facility, which has a mid-density of not less than 1.2 optical density, is exposed to typical darkroom conditions for 2 minutes while such film is placed on the counter top emulsion side up.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5688 Annual medical physicist's quality control tests.**

Rule 688. A stereotactic breast biopsy facility shall have the medical physicist perform the following quality control tests at least annually after equipment installation:

(a) Collimation assessment that meets either of the following:

(i) For screen-film systems, the x-ray field shall be contained within the image receptor on all 3 sides except the chest wall edge. The x-ray field shall not extend beyond the chest wall edge of the image receptor by more than 2% of the source-to-image receptor distance.

(ii) For digital image receptors, the x-ray field may extend beyond the edge of the image receptor on all 4 sides, but no edge of the x-ray field shall extend beyond the image receptor by more than 5 millimeters on any side. Distances shall be measured in, or referred to, the plane of the digital image receptor.

(b) Focal spot performance and system limiting spatial resolution. Assess consistency of system-limiting resolution over time and in comparison to acceptance testing results using a line pair test pattern.

(c) Kilovoltage peak (kVp) accuracy and reproducibility. The kVp shall be accurate to within plus or minus 5% of the indicated or selected kVp. The coefficient of variation of reproducibility of the kVp shall be equal to or less than 0.02 at the most commonly used clinical settings of kVp.

(d) Beam quality assessment. The half-value layer (HVL) shall be equal to or greater than the value kVp/100 in units of millimeter of aluminum.

(e) Automatic exposure control system or manual exposure performance assessment that meets either of the following:

(i) For screen-film systems, the image optical density shall be within plus or minus 0.15 of the mean optical density when thicknesses of a homogeneous material is varied over a range of 4 to 8 centimeters using the clinical techniques for each thickness. If the optical densities do not meet this criterion, the medical physicist shall develop a technique chart which meets this criterion.

(ii) For digital systems, the signal value at the center of the digital field of view shall remain within 20% of the signal obtained for the 4 centimeter phantom when thicknesses of a homogeneous material is varied over a range of 4 to 8 centimeters using the clinical techniques for each thickness. If the signal values do not meet this criterion, the medical physicist shall develop technique chart which meets this criterion.

(f) Image receptor speed uniformity that meets either of the following:

(i) For screen-film systems, the difference between the maximum and minimum optical densities of all the cassettes in the facility shall not exceed 0.30.

(ii) For digital systems, the signal-to-noise ratios (SNR) measured in each corner of the image shall be within plus or minus 15% of the SNR measured at the center of the field of view.

(iii) For digital systems that are not equipped with region of interest signal measurements, the machine will meet the receptor uniformity requirements specified by the manufacturer.

(g) Breast entrance exposure, average glandular dose, and exposure reproducibility. The coefficient of variation for both air kerma and mAs shall not exceed 0.05. The average glandular dose delivered during a single exposure of a department-approved phantom simulating a standard breast shall not exceed 3.0 milligray (300 millirad) per exposure.

(h) Image quality evaluation. An image of a department-approved phantom shall achieve at least the minimum score established in R 325.5689.

(i) Artifact evaluation. System artifacts shall be evaluated with a high-grade, defect-free sheet of homogeneous material large enough to cover the full area of the exposed image receptor on the breast support assembly.

(j) Localization accuracy test. Using a phantom made of gelatin or similar material, the biopsy needle shall capture the intended object in the phantom.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5689 Phantom image scores.**

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Rule 689. A stereotactic breast biopsy phantom image score for the tests required in rules R 325.5687 (b) and R 325.5688 (h) shall be not less than the values specified in table 689:

TABLE 689

Image System	Standard Mammography Phantom			Mini Stereotactic Phantom		
	Fibers	Speck Groups	Masses	Fibers	Speck Groups	Masses
Screen-film	4.0	3.0	3.0	2.0	2.0	2.0
Digital	5.0	4.0	3.5	3.0	3.0	2.5

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5690 Dosimetry.**

Rule 690. The average glandular dose delivered during a single exposure of a department-approved phantom simulating a standard breast shall not exceed 3.0 milligray (300 millirad) per exposure. The dose shall be determined with technique factors and conditions used clinically for a standard breast.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5691 Quality assurance for mobile units.**

Rule 691. A stereotactic breast biopsy facility shall verify that mammography units used to produce interventional mammograms at more than 1 location meet the requirements in R 325.5687 to R 325.5690. At each examination location and before any examinations are conducted, the facility shall verify satisfactory performance of these units by using a test method that establishes the adequacy of the image quality produced by the unit.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5692 Use of quality assurance test results.**

Rule 692. (1) After completion of tests specified in R 325.5687 to R 325.5691, the facility shall compare the test results to the corresponding specified action limits or the limits established by the facility to verify the image quality of mobile units following a move.

(2) If the test results fall outside of the action limits, the source of the problem shall be identified and corrective actions shall be taken within the following time frames:

(a) Before any further examinations are performed or any films are processed using a component of the mammography system that failed any of the tests described in R 325.5687 (a), (b), (d), (f) (i), (f) (iii), (f) (iv); R 325.5688 (g) and (h); or R 325.5691.

(b) Within 30 days of the test date for all other tests described in R 325.5687 to R 325.5691.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5693 Medical physicist surveys.**

Rule 693. (1) A stereotactic breast biopsy facility shall annually undergo a survey by a medical physicist or by an individual under the direct supervision of a medical physicist. The survey shall include, at a minimum, the performance of tests to ensure that the facility meets the quality assurance requirements of the annual tests described in R 325.5688 and the weekly phantom image quality test as provided in R 325.5687 (b).

(2) The results of all tests conducted by the facility in accordance with R 325.5687 to R 325.5691 and written documentation of any corrective actions taken and their results shall be evaluated for adequacy by the medical physicist performing the survey.

(3) The medical physicist shall prepare a survey report that includes a summary of this review and recommendations for necessary improvements.

(4) The survey report shall be provided to the facility within 30 days of the date of the survey.

(5) The survey report shall be dated and signed by the medical physicist who performed or supervised the survey. If the survey was performed entirely or in part by an individual under the direct supervision of the medical physicist, that individual and the part of the survey that individual performed shall be identified in the survey report.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5694 Mammography equipment evaluations.**

Rule 694. (1) Additional evaluations of stereotactic breast biopsy units or image processors shall be conducted whenever a new unit or processor is installed, a unit or processor is disassembled and reassembled at the same or a new location, or major components of a stereotactic breast biopsy unit or processor equipment are changed or repaired. These evaluations shall be used to determine whether the new or changed equipment meets the requirements of R 325.5676 to R 325.5678

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and R 325.5687 to R 325.5691, as applicable. Problems revealed by the evaluation shall be corrected before the new or changed equipment is put into service for procedures or film processing.

(2) The equipment evaluations specified in subrule (1) of this rule shall be performed by a medical physicist or by an individual under the direct supervision of a medical physicist.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5695 Cleanliness in facilities using screen-film systems.**

Rule 695. (1) A stereotactic breast biopsy facility shall establish and implement protocols for maintaining darkroom, screen, and view box cleanliness.

(2) The facility shall document that all cleaning procedures are performed at the frequencies specified in the protocols.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5696 Calibration of air kerma measuring instruments.**

Rule 696. Instruments used by a medical physicist in his or her annual survey to measure the air kerma or air kerma rate from a stereotactic breast biopsy unit shall be calibrated once every 2 years and each time the instrument is repaired. The instrument calibration must be traceable to a national standard and calibrated with an accuracy of plus or minus 6 percent (95 percent confidence level) in the mammography energy range.

History: 2013 MR 8, Eff. April 17, 2013

**R 325.5697 Infection control.**

Rule 697. A stereotactic breast biopsy facility shall establish and comply with procedures to be followed for cleaning and disinfecting stereotactic breast biopsy equipment after contact with blood or other potentially infectious materials. The procedures shall include methods for documenting facility compliance with the infection control procedures.

History: 2013 MR 8, Eff. April 17, 2013.

**R 325.5698 Medical outcomes audit.**

Rule 698. A stereotactic breast biopsy facility shall establish and maintain a stereotactic breast biopsy medical outcomes audit program that complies with the following:

(a) General requirements. A stereotactic breast biopsy facility shall establish a system to collect and review all of the following data:

(i) Total number of procedures.

(ii) Total number of cancers found.

(iii) Total number of benign lesions.

(iv) Total number of stereotactic breast biopsy needing repeat biopsy.

(v) Total number of complications.

(b) Frequency of audit analysis. The facility's first audit analysis shall be initiated not later than 12 months after the date the facility becomes registered with the department, or 12 months after the effective date of this rule, whichever date is later. The audit analysis shall be completed within an additional 12 months to permit completion of procedures and data collection. Subsequent audit analyses shall be conducted at least once every 12 months.

(c) Audit stereotactic breast biopsy physician. A stereotactic breast biopsy facility shall designate at least 1 stereotactic breast biopsy physician to review the medical outcomes audit data at least once every 12 months. This physician shall record the dates of the audit period; analyze results based on the audit; document the results; and notify other stereotactic breast biopsy physicians of the results and the facility's aggregate results. The audit stereotactic breast biopsy physician shall ensure that any follow-up actions are documented.

History: 2013 MR 8, Eff. April 17, 2013.

**PART 15. COMPUTED TOMOGRAPHY INSTALLATIONS**

**R 325.5701**

Source: 2011 AACS.

**R 325.5703**

Source: 2011 AACS.

**R 325.5705**

Source: 2011 AACS.

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**R 325.5707**  
Source: 2011 AACS.

**R 325.5709**  
Source: 2011 AACS.

**R 325.5711**  
Source: 2011 AACS.

**R 325.5713**  
Source: 2011 AACS.

**R 325.5715**  
Source: 2011 AACS.

**R 325.5717**  
Source: 2011 AACS.

**R 325.5719**  
Source: 2011 AACS.

**R 325.5721**  
Source: 2011 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**DRINKING WATER AND RADIOLOGICAL PROTECTION DIVISION**  
**RADIOACTIVE MATERIAL TRANSPORTATION**

**R 325.5801**  
Source: 1997 AACS.

**R 325.5802**  
Source: 1997 AACS.

**R 325.5803**  
Source: 1997 AACS.

**R 325.5804**  
Source: 1997 AACS.

**R 325.5805**  
Source: 1997 AACS.

**R 325.5806**  
Source: 1997 AACS.

**R 325.5807**  
Source: 1997 AACS.

**R 325.5808**  
Source: 1997 AACS.

**R 325.5809**  
Source: 1997 AACS.

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**R 325.5810**  
Source: 1997 AACS.

DEPARTMENT OF ENVIRONMENTAL QUALITY  
DIVISION OF WATER AND RADIOLOGICAL PROTECTION  
PEACETIME NUCLEAR INCIDENTS

PART 1. DEFINITIONS

**R 325.5901**  
Source: 2012 AACS.

**R 325.5902**  
Source: 2012 AACS.

**R 325.5903**  
Source: 2012 AACS.

**R 325.5904**  
Source: 2012 AACS.

PART 2. NUCLEAR INCIDENTS AND PUBLIC INTEREST OCCURRENCES

**R 325.5911**  
Source: 2012 AACS.

**R 325.5912**  
Source: 2012 AACS.

**R 325.5913**  
Source: 2012 AACS.

**R 325.5914**  
Source: 2012 AACS.

PART 3. EMERGENCY PLANS

**R 325.5921**  
Source: 2012 AACS.

**R 325.5922**  
Source: 2012 AACS.

**R 325.5923**  
Source: 2012 AACS.

**R 325.5924**  
Source: 2012 AACS.

**R 325.5925**  
Source: 2012 AACS.

**R 325.5926**  
Source: 2012 AACS.

**R 325.5927**  
Source: 2012 AACS.

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**R 325.5928**  
Source: 2012 AACS.

**R 325.5929**  
Source: 2012 AACS.

**R 325.5930**  
Source: 2012 AACS.

**R 325.5931**  
Source: 2012 AACS.

**R 325.5932**  
Source: 2012 AACS.

**R 325.5933**  
Source: 2012 AACS.

**R 325.5934**  
Source: 2012 AACS.

**BUREAU OF HEALTH CARE ADMINISTRATION**  
**FREESTANDING SURGICAL OUTPATIENT FACILITIES**  
**DIFFERENTIATED FROM PRIVATE PRACTICE OFFICES**

**R 325.6001 Rescinded.**  
History: 1980 AACS; 2013 MR 18, Eff. Oct. 1, 2013.

**R 325.6002 Rescinded.**  
History: 1980 AACS; 2013 MR 18, Eff. Oct. 1, 2013.

**DEPARTMENT OF COMMUNITY HEALTH**  
**AND INSURANCE BUREAU**  
**HEALTH MAINTENANCE ORGANIZATIONS**

**PART 1. GENERAL PROVISIONS**

**R 325.6101**  
Source: 1988 AACS.

**R 325.6105**  
Source: 1988 AACS.

**R 325.6110**  
Source: 1988 AACS.

**R 325.6115**  
Source: 1988 AACS.

**R 325.6120**  
Source: 1997 AACS.

**R 325.6125**  
Source: 1988 AACS.

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**R 325.6130**  
Source: 1988 AACS.

**R 325.6135**  
Source: 1988 AACS.

**PART 2. STATE ADMINISTRATION**

**R 325.6201**  
Source: 1997 AACS.

**R 325.6205**  
Source: 1988 AACS.

**R 325.6210**  
Source: 1988 AACS.

**R 325.6215**  
Source: 1997 AACS.

**R 325.6220**  
Source: 1997 AACS.

**R 325.6225**  
Source: 1997 AACS.

**R 325.6230**  
Source: 1988 AACS.

**R 325.6235**  
Source: 1988 AACS.

**R 325.6240**  
Source: 1988 AACS.

**R 325.6245**  
Source: 1988 AACS.

**R 325.6250**  
Source: 1997 AACS.

**R 325.6255**  
Source: 1997 AACS.

**R 325.6260**  
Source: 1997 AACS.

**R 325.6265**  
Source: 1997 AACS.

**R 325.6270**  
Source: 1988 AACS.

**R 325.6275**  
Source: 1988 AACS.

**R 325.6280**  
Source: 1997 AACS.

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**R 325.6285**  
Source: 1988 AACS.

**R 325.6290**  
Source: 1988 AACS.

**PART 3. BUSINESS AND OPERATIONAL REQUIREMENTS**

**R 325.6301**  
Source: 1988 AACS.

**R 325.6305**  
Source: 1988 AACS.

**R 325.6310**  
Source: 1988 AACS.

**R 325.6315**  
Source: 1988 AACS.

**R 325.6320**  
Source: 1997 AACS.

**R 325.6325**  
Source: 1997 AACS.

**R 325.6330**  
Source: 1988 AACS.

**R 325.6335**  
Source: 1988 AACS.

**R 325.6340**  
Source: 1988 AACS.

**R 325.6345**  
Source: 1988 AACS.

**R 325.6350**  
Source: 1988 AACS.

**R 325.6355**  
Source: 1988 AACS.

**R 325.6360**  
Source: 1988 AACS.

**R 325.6365**  
Source: 1988 AACS.

**PART 4. SUBSCRIBER CONTRACTS, COVERAGE, AND RELATED REQUIREMENTS**

**R 325.6401**  
Source: 1988 AACS.

**R 325.6405**  
Source: 1988 AACS.

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**R 325.6410**  
Source: 1988 AACCS.

**R 325.6415**  
Source: 1988 AACCS.

**R 325.6420**  
Source: 1988 AACCS.

**R 325.6425**  
Source: 1988 AACCS.

**R 325.6430**  
Source: 1988 AACCS.

**PART 5. MARKETING AND ENROLLMENT**

**R 325.6501**  
Source: 1988 AACCS.

**R 325.6505**  
Source: 1988 AACCS.

**R 325.6510**  
Source: 1988 AACCS.

**R 325.6515**  
Source: 1997 AACCS.

**PART 6. STANDARDS FOR SERVICES, STAFFING, QUALITY ASSURANCE,  
AND UTILIZATION REVIEW**

**R 325.6601**  
Source: 1988 AACCS.

**R 325.6605**  
Source: 1988 AACCS.

**R 325.6610**  
Source: 1988 AACCS.

**R 325.6615**  
Source: 1988 AACCS.

**R 325.6620**  
Source: 1988 AACCS.

**R 325.6625**  
Source: 1988 AACCS.

**R 325.6635**  
Source: 1988 AACCS.

**PART 7. FACILITY STANDARDS**

**R 325.6701**  
Source: 1988 AACCS.

**R 325.6702**

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Source: 1988 AACS.

**R 325.6705**

Source: 1997 AACS.

**R 325.6710**

Source: 1991 AACS.

**R 325.6715**

Source: 1988 AACS.

**R 325.6720**

Source: 1988 AACS.

**R 325.6725**

Source: 1988 AACS.

**R 325.6730**

Source: 1988 AACS.

**R 325.6735**

Source: 1988 AACS.

**R 325.6740**

Source: 1988 AACS.

**R 325.6745**

Source: 1988 AACS.

**R 325.6750**

Source: 1988 AACS.

**R 325.6755**

Source: 1988 AACS.

**R 325.6760**

Source: 1997 AACS.

**R 325.6765**

Source: 1997 AACS.

**R 325.6770**

Source: 1997 AACS.

**R 325.6775**

Source: 1997 AACS.

**R 325.6780**

Source: 1988 AACS.

**R 325.6785**

Source: 1988 AACS.

**R 325.6790**

Source: 1988 AACS.

**R 325.6795**

Source: 1988 AACS.

**PART 8. ENROLLEE CLINICAL RECORDS; REPORTS AND INSPECTIONS**

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**R 325.6801**  
Source: 1988 AACS.

**R 325.6805**  
Source: 1988 AACS.

**R 325.6810**  
Source: 1988 AACS.

**R 325.6815**  
Source: 1988 AACS.

**R 325.6820**  
Source: 1997 AACS.

**R 325.6825**  
Source: 1988 AACS.

**R 325.6830**  
Source: 1988 AACS.

**R 325.6835**  
Source: 1988 AACS.

**PART 9. HEALTH MAINTENANCE ORGANIZATION INCLUSION IN HEALTH BENEFIT PLANS**

**R 325.6901**  
Source: 1988 AACS.

**R 325.6905**  
Source: 1988 AACS.

**R 325.6910**  
Source: 1988 AACS.

**R 325.6925**  
Source: 1988 AACS.

**R 325.6930**  
Source: 1988 AACS.

**R 325.6935**  
Source: 1988 AACS.

**R 325.6950**  
Source: 1988 AACS.

**R 325.6955**  
Source: 1988 AACS.

**R 325.6960**  
Source: 1988 AACS.

**R 325.6965**  
Source: 1997 AACS.

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**OFFICE OF VITAL AND HEALTH STATISTICS**

**DISINTERMENT—REINTERMENT**

**R 325.8051**  
Source: 1982 AACS.

**R 325.8052**  
Source: 1982 AACS.

**R 325.8053**  
Source: 1982 AACS.

**R 325.8054**  
Source: 1982 AACS.

**R 325.8055**  
Source: 1982 AACS.

**R 325.8056**  
Source: 1982 AACS.

**R 325.8057**  
Source: 1982 AACS.

**LABORATORY AND EPIDEMIOLOGICAL SERVICES ADMINISTRATION**

**DISEASE SURVEILLANCE AND CONTROL**

**R 325.9001**  
Source: 1997 AACS.

**R 325.9002**  
Source: 1997 AACS.

**R 325.9003**  
Source: 1997 AACS.

**R 325.9004**  
Source: 1997 AACS.

**R 325.9005**  
Source: 1997 AACS.

**R 325.9006**  
Source: 1997 AACS.

**R 325.9007**  
Source: 1997 AACS.

**R 325.9008**  
Source: 1997 AACS.

**R 325.9009**  
Source: 1997 AACS.

**R 325.9010**  
Source: 1997 AACS.

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**R 325.9011**  
Source: 1997 AACS.

**R 325.9012**  
Source: 1981 AACS.

**BUREAU OF LABORATORY AND EPIDEMIOLOGICAL SERVICES  
DEFINITION OF "INFECTIOUS AGENT"**

**R 325.9031**  
Source: 1987 AACS.

**DIVISION OF RESEARCH AND DEVELOPMENT  
CHRONIC DISEASE PREVENTION AND CONTROL LIST**

**R 325.9041**  
Source: 1989 AACS.

**OFFICE OF THE STATE REGISTRAR AND  
CENTER FOR HEALTH STATISTICS  
CANCER REPORTING**

**R 325.9050**  
Source: 2004 AACS.

**R 325.9051**  
Source: 2004 AACS.

**R 325.9052**  
Source: 2004 AACS.

**R 325.9053**  
Source: 1985 AACS.

**R 325.9054**  
Source: 1985 AACS.

**R 325.9055**  
Source: 1985 AACS.

**R 325.9056**  
Source: 1985 AACS.

**R 325.9057**  
Source: 1985 AACS.

**CENTER FOR HEALTH PROMOTION  
SPINAL CORD AND TRAUMATIC BRAIN INJURY REPORTING**

**R 325.9061**  
Source: 1993 AACS.

**R 325.9062**

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Source: 1993 AACS.

**R 325.9063**

Source: 1993 AACS.

**R 325.9064**

Source: 1993 AACS.

**R 325.9065**

Source: 1993 AACS.

**R 325.9066**

Source: 1993 AACS.

**R 325.9067**

Source: 1993 AACS.

**BIRTH DEFECTS REPORTING**

**R 325.9071**

Source: 2011 AACS.

**R 325.9072**

Source: 2011 AACS.

**R 325.9073**

Source: 2011 AACS.

**R 325.9074**

Source: 2011 AACS.

**R 325.9075**

Source: 1991 AACS.

**R 325.9076**

Source: 2011 AACS.

**HEALTH LEGISLATION AND POLICY DEVELOPMENT**

**BLOOD LEAD ANALYSIS REPORTING**

**R 325.9081**

Source: 1997 AACS.

**R 325.9082**

Source: 1997 AACS.

**R 325.9083**

Source: 1997 AACS.

**R 325.9084**

Source: 2006 AACS.

**R 325.9085**

Source: 1997 AACS.

**R 325.9086**

Source: 2006 AACS.

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**R 325.9087**  
Source: 1997 AACS.

**BUREAU OF HEALTH SYSTEMS**  
**CERTIFICATE OF NEED**

**PART 1. GENERAL PROVISIONS**

**R 325.9101**  
Source: 1996 AACS.

**R 325.9103**  
Source: 1996 AACS.

**R 325.9105**  
Source: 1996 AACS.

**R 325.9109**  
Source: 1996 AACS.

**R 325.9121**  
Source: 1996 AACS.

**R 325.9123**  
Source: 1996 AACS.

**R 325.9125**  
Source: 1996 AACS.

**PART 2. LETTERS OF INTENT; APPLICATIONS; REVIEWS**

**R 325.9201**  
Source: 1996 AACS.

**R 325.9203**  
Source: 1996 AACS.

**R 325.9204**  
Source: 1996 AACS.

**R 325.9205**  
Source: 1996 AACS.

**R 325.9206**  
Source: 1996 AACS.

**R 325.9207**  
Source: 1996 AACS.

**R 325.9208**  
Source: 1996 AACS.

**R 325.9215**  
Source: 1996 AACS.

**R 325.9227**  
Source: 1996 AACS.

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**R 325.9229**  
Source: 1996 AACS.

**PART 3. APPROVAL AND ISSUANCE; DISAPPROVAL**

**R 325.9301**  
Source: 1996 AACS.

**R 325.9303**  
Source: 1996 AACS.

**PART 4. TERMS AND CONDITIONS**

**R 325.9401**  
Source: 1986 AACS.

**R 325.9403**  
Source: 1996 AACS.

**R 325.9413**  
Source: 1996 AACS.

**R 325.9415**  
Source: 1996 AACS.

**R 325.9417**  
Source: 1996 AACS.

**R 325.9419**  
Source: 1996 AACS.

**PART 5. ADMINISTRATIVE HEARINGS**

**R 325.9501**  
Source: 1996 AACS.

**R 325.9503**  
Source: 1996 AACS.

**R 325.9505**  
Source: 1986 AACS.

**R 325.9507**  
Source: 1996 AACS.

**R 325.9509**  
Source: 1996 AACS.

**R 325.9511**  
Source: 1996 AACS.

**R 325.9513**  
Source: 1996 AACS.

**R 325.9515**  
Source: 1996 AACS.

**R 325.9517**

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Source: 1996 AACS.

**R 325.9519**

Source: 1996 AACS.

**R 325.9521**

Source: 1996 AACS.

**R 325.9523**

Source: 1996 AACS.

**R 325.9525**

Source: 1996 AACS.

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**HEALTH LEGISLATION AND POLICY DEVELOPMENT**

**LEAD HAZARD REMEDIATION**

**R 325.9901**

Source: 2005 AACS.

**R 325.9902**

Source: 2005 AACS.

**R 325.9903**

Source: 2005 AACS.

**R 325.9904**

Source: 2005 AACS.

**R 325.9905**

Source: 2005 AACS.

**R 325.9906**

Source: 2005 AACS.

**R 325.9907**

Source: 2005 AACS.

**R 325.9908**

Source: 2005 AACS.

**R 325.9909**

Source: 2005 AACS.

**R 325.9910**

Source: 2005 AACS.

**R 325.9911**

Source: 2005 AACS.

**R 325.9912**

Source: 2005 AACS.

**R 325.9913**

Source: 2005 AACS.

**R 325.9914**

Source: 2005 AACS.

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**R 325.9915**  
Source: 2005 AACS.

**R 325.9916**  
Source: 2005 AACS.

**R 325.9917**  
Source: 2005 AACS.

**R 325.9918**  
Source: 2005 AACS.

**R 325.9919**  
Source: 2005 AACS.

**R 325.9920**  
Source: 2005 AACS.

**R 325.9921**  
Source: 2005 AACS.

**R 325.9922**  
Source: 2005 AACS.

**R 325.9923**  
Source: 2005 AACS.

**R 325.9924**  
Source: 2005 AACS.

**R 325.9925**  
Source: 2005 AACS.

**HEALTH SERVICES ADMINISTRATION**  
**SUPPLYING WATER TO THE PUBLIC**

**R 325.10101**  
Source: 1979 AC.

**R 325.10102**  
Source: 2009 AACS.

**R 325.10103**  
Source: 2009 AACS.

**R 325.10104**  
Source: 2009 AACS.

**R 325.10105**  
Source: 2009 AACS.

**R 325.10106**  
Source: 2009 AACS.

**R 325.10107**  
Source: 2009 AACS.

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**R 325.10108**  
Source: 2009 AACS.

**R 325.10109**  
Source: 2009 AACS.

**R 325.10110**  
Source: 1998-2000 AACS.

**R 325.10111**  
Source: 1998-2000 AACS.

**R 325.10112**  
Source: 2009 AACS.

**R 325.10113**  
Source: 2009 AACS.

**R 325.10114**  
Source: 1979 AC

**R 325.10115**  
Source: 1979 AC.

**R 325.10116**  
Source: 2009 AACS.

**PART 2. HEARINGS AND CONTESTED CASES**

**R 325.10201**  
Source: 1979 AC.

**R 325.10202**  
Source: 1979 AC.

**R 325.10203**  
Source: 1979 AC.

**R 325.10204**  
Source: 1979 AC.

**R 325.10205**  
Source: 1979 AC.

**R 325.10206**  
Source: 1979 AC.

**R 325.10207**  
Source: 1979 AC.

**R 325.10208**  
Source: 1979 AC.

**PART 3. VARIANCES, EXEMPTIONS AND TREATMENT TECHNOLOGIES**

**R 325.10301**  
Source: 1979 AC.

**R 325.10302**  
Source: 1979 AC.

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**R 325.10303**  
Source: 1991 AACS.

**R 325.10304**  
Source: 1991 AACS.

**R 325.10305**  
Source: 1979 AC.

**R 325.10306**  
Source: 1991 AACS.

**R 325.10307**  
Source: 1979 AC.

**R 325.10308**  
Source: 1979 AC.

**R 325.10308a**  
Source: 1984 AACS.

**R 325.10308b**  
Source: 2009 AACS.

**R 325.10309**  
Source: 1979 AC.

**R 325.10310**  
Source: 1979 AC.

**R 325.10311**  
Source: 1979 AC.

**R 325.10312**  
Source: 1979 AC.

**R 325.10313**  
Source: 2009 AACS.

**PART 4. PUBLIC NOTIFICATION AND PUBLIC EDUCATION**

**R 325.10401**  
Source: 2009 AACS.

**R 325.10401a**  
Source: 2009 AACS.

**R 325.10402**  
Source: 2009 AACS.

**R 325.10403**  
Source: 2009 AACS.

**R 325.10404**  
Source: 2009 AACS.

**R 325.10405**  
Source: 2009 AACS.

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- R 325.10406**  
Source: 2009 AACS.
- R 325.10407**  
Source: 2009 AACS.
- R 325.10408**  
Source: 2009 AACS.
- R 325.10408a**  
Source: 2009 AACS.
- R 325.10408b**  
Source: 2009 AACS.
- R 325.10408c**  
Source: 2009 AACS.
- R 325.10408d**  
Source: 2009 AACS.
- R 325.10409**  
Source: 2009 AACS.
- R 325.10410**  
Source: 2009 AACS.
- R 325.10411**  
Source: 2009 AACS.
- R 325.10412**  
Source: 2009 AACS.
- R 325.10413**  
Source: 2009 AACS.
- R 325.10414**  
Source: 2009 AACS.
- R 325.10415**  
Source: 2009 AACS.
- R 325.10416**  
Source: 2003 AACS.
- R 325.10417**  
Source: 2003 AACS.
- R 325.10418**  
Source: 2003 AACS.
- R 325.10419**  
Source: 2003 AACS.
- R 325.10420**  
Source: 2003 AACS.

**PART 5. TYPES OF PUBLIC WATER SUPPLIES**

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- R 325.10501**  
Source: 1979 AC.
- R 325.10502**  
Source: 2009 AACS.
- R 325.10503**  
Source: 2009 AACS.
- R 325.10504**  
Source: 2009 AACS.
- R 325.10505**  
Source: 2009 AACS.
- R 325.10506**  
Source: 2009 AACS.

**PART 6. STATE DRINKING WATER STANDARDS AND ANALYTICAL TECHNIQUES**

- R 325.10601**  
Source: 1998-2000 AACS.
- R 325.10601a**  
Source: 2009 AACS.
- R 325.10602**  
Source: 2009 AACS.
- R 325.10603**  
Source: 2005 AACS.
- R 325.10604**  
Source: 2005 AACS.
- R 325.10604a**  
Source: 2003 AACS.
- R 325.10604b**  
Source: 2005 AACS.
- R 325.10604c**  
Source: 2009 AACS.
- R 325.10604d**  
Source: 2005 AACS.
- R 325.10604e**  
Source: 1993 AACS.
- R 325.10604f**  
Source: 2009 AACS.
- R 325.10605**  
Source: 2009 AACS.
- R 325.10605a**  
Source: 1998-2000 AACS.

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**R 325.10605b**  
Source: 1998-2000 AACS.

**R 325.10605c**  
Source: 1998-2000 AACS.

**R 325.10605d**  
Source: 1998-2000 AACS.

**R 325.10605e**  
Source: 1998-2000 AACS.

**R 325.10606**  
Source: 1998-2000 AACS.

**R 325.10607**  
Source: 1998-2000 AACS.

**R 325.10608**  
Source: 1998-2000 AACS.

**R 325.10609**  
Source: 1998-2000 AACS.

**R 325.10610**  
Source: 2009 AACS.

**R 325.10610a**  
Source: 2009 AACS.

**R 325.10610b**  
Source: 2009 AACS.

**R 325.10610c**  
Source: 2009 AACS.

**R 325.10610d**  
Source: 2009 AACS.

**R 325.10611**  
Source: 2005 AACS.

**R 325.10611a**  
Source: 2009 AACS.

**R 325.10611b**  
Source: 2009 AACS.

**R 325.10611c**  
Source: 2005 AACS.

**R 325.10611d**  
Source: 2009 AACS.

**R 325.10611e**  
Source: 2009 AACS.

**R 325.10611f**  
Source: 2009 AACS.

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**R 325.10611g**  
Source: 2009 AACS.

**R 325.10611h**  
Source: 2009 AACS.

**R 325.10611i**  
Source: 2009 AACS.

**R 325.10611j**  
Source: 2009 AACS.

**R 325.10611k**  
Source: 2009 AACS.

**R 325.10611l**  
Source: 2009 AACS.

**R 325.10611m**  
Source: 2009 AACS.

**R 325.10611n**  
Source: 2009 AACS.

**R 325.10612**  
Source: 2009 AACS.

**R 325.10612a**  
Source: 2009 AACS.

**R 325.10612b**  
Source: 2009 AACS.

**PART 7. SURVEILLANCE, INSPECTION, AND MONITORING**

**R 325.10701**  
Source: 1979 AC.

**R 325.10702**  
Source: 2009 AACS.

**R 325.10703**  
Source: 1979 AC.

**R 325.10704**  
Source: 2003 AACS.

**R 325.10705**  
Source: 2002 AACS.

**R 325.10706**  
Source: 2003 AACS.

**R 325.10707**  
Source: 1991 AACS.

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- R 325.10707a**  
Source: 2009 AACCS.
- R 325.10707b**  
Source: 2003 AACCS.
- R 325.10708**  
Source: 2009 AACCS.
- R 325.10709**  
Source: 1998-2000 AACCS.
- R 325.10710**  
Source: 2005 AACCS.
- R 325.10710a**  
Source: 2009 AACCS.
- R 325.10710b**  
Source: 2009 AACCS.
- R 325.10710c**  
Source: 2009 AACCS.
- R 325.10710d**  
Source: 2009 AACCS.
- R 325.10711**  
Source: 1997 AACCS.
- R 325.10712**  
Source: 1997 AACCS.
- R 325.10713**  
Source: 1997 AACCS.
- R 325.10714**  
Source: 1997 AACCS.
- R 325.10715**  
Source: 1997 AACCS.
- R 325.10716**  
Source: 2005 AACCS.
- R 325.10717**  
Source: 2005 AACCS.
- R 325.10717a**  
Source: 1997 AACCS.
- R 325.10717b**  
Source: 2009 AACCS.
- R 325.10717c**  
Source: 2009 AACCS.
- R 325.10718**

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Source: 1997 AACS.

**R 325.10719**

Source: 2003 AACS.

**R 325.10719a**

Source: 2005 AACS.

**R 325.10719b**

Source: 2005 AACS.

**R 325.10719c**

Source: 2005 AACS.

**R 325.10719d**

Source: 2005 AACS.

**R 325.10719e**

Source: 2009 AACS.

**R 325.10719f**

Source: 2003 AACS.

**R 325.10719g**

Source: 2009 AACS.

**R 325.10719h**

Source: 2009 AACS.

**R 325.10719i**

Source: 2009 AACS.

**R 325.10719j**

Source: 2009 AACS.

**R 325.10719k**

Source: 2009 AACS.

**R 325.10719l**

Source: 2009 AACS.

**R 325.10719m**

Source: 2009 AACS.

**R 325.10719n**

Source: 2009 AACS.

**R 325.10720**

Source: 2009 AACS.

**R 325.10720a**

Source: 2005 AACS.

**R 325.10720b**

Source: 2009 AACS.

**R 325.10720c**

Source: 2009 AACS.

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**R 325.10720d**  
Source: 2009 AACS.

**R 325.10720e**  
Source: 2009 AACS.

**R 325.10721**  
Source: 2003 AACS.

**R 325.10722**  
Source: 2009 AACS.

**R 325.10724**  
Source: 1997 AACS.

**R 325.10725**  
Source: 2005 AACS.

**R 325.10726**  
Source: 2005 AACS.

**R 325.10728**  
Source: 2005 AACS.

**R 325.10729**  
Source: 2005 AACS.

**R 325.10730**  
Source: 2009 AACS.

**R 325.10731**  
Source: 2009 AACS.

**R 325.10732**  
Source: 1979 AC.

**R 325.10733**  
Source: 1979 AC.

**R 325.10734**  
Source: 2002 AACS.

**R 325.10735**  
Source: 2009 AACS.

**R 325.10736**  
Source: 2002 AACS.

**R 325.10737**  
Source: 1997 AACS.

**R 325.10738**  
Source: 2002 AACS.

**R 325.10739**  
Source: 2009 AACS.

**R 325.10739a**  
Source: 2009 AACS.

**R 325.10739b**  
Source: 2009 AACS.

**PART 8. GROUNDWATER SOURCES**

**R 325.10801**  
Source: 2009 AACS.

**R 325.10802**  
Source: 2009 AACS.

**R 325.10804**  
Source: 2009 AACS.

**R 325.10805**  
Source: 2009 AACS.

**R 325.10806**  
Source: 2009 AACS.

**R 325.10807**  
Source: 1979 AC.

**R 325.10808**  
Source: 1979 AC.

**R 325.10809**  
Source: 2009 AACS.

**R 325.10810**  
Source: 2009 AACS.

**R 325.10811**  
Source: 1979 AC.

**R 325.10812**  
Source: 2009 AACS.

**R 325.10813**  
Source: 2009 AACS.

**R 325.10814**  
Source: 2009 AACS.

**R 325.10815**  
Source: 2009 AACS.

**R 325.10816**  
Source: 1979 AC.

**R 325.10817**  
Source: 1979 AC.

**R 325.10818**  
Source: 1979 AC.

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- R 325.10819**  
Source: 1979 AC.
- R 325.10820**  
Source: 1979 AC.
- R 325.10821**  
Source: 1979 AC.
- R 325.10822**  
Source: 1991 AACS.
- R 325.10823**  
Source: 2009 AACS.
- R 325.10824**  
Source: 1979 AC.
- R 325.10825**  
Source: 1979 AC.
- R 325.10826**  
Source: 1979 AC.
- R 325.10827**  
Source: 1979 AC.
- R 325.10828**  
Source: 2009 AACS.
- R 325.10829**  
Source: 1979 AC.
- R 325.10830**  
Source: 2009 AACS.
- R 325.10831**  
Source: 2009 AACS.
- R 325.10832**  
Source: 1979 AC.
- R 325.10833**  
Source: 1997 AACS.

**PART 9. SURFACE WATER SOURCES**

- R 325.10901**  
Source: 1979 AC.
- R 325.10902**  
Source: 2009 AACS.
- R 325.10904**  
Source: 2009 AACS.
- R 325.10905**  
Source: 2009 AACS.
- R 325.10906**

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Source: 1979 AC.

**R 325.10907**

Source: 1979 AC.

**R 325.10908**

Source: 1979 AC.

**R 325.10909**

Source: 1979 AC.

**PART 10. TREATMENT SYSTEMS AND PUMPING FACILITIES**

**R 325.11001**

Source: 2009 AACS.

**R 325.11002**

Source: 2009 AACS.

**R 325.11004**

Source: 2003 AACS.

**R 325.11005**

Source: 1979 AC.

**R 325.11006**

Source: 2009 AACS.

**R 325.11007**

Source: 2009 AACS.

**R 325.11008**

Source: 2003 AACS.

**R 325.11009**

Source: 2003 AACS.

**R 325.11010**

Source: 2009 AACS.

**R 325.11011**

Source: 2009 AACS.

**R 325.11012**

Source: 1979 AC.

**R 325.11013**

Source: 1979 AC.

**R 325.11014**

Source: 1979 AC.

**R 325.11015**

Source: 2009 AACS.

**R 325.11016**

Source: 2009 AACS.

**PART 11. DISTRIBUTION SYSTEMS AND STORAGE TANKS**

- R 325.11101**  
Source: 1979 AC.
- R 325.11102**  
Source: 2009 AACS.
- R 325.11104**  
Source: 2009 AACS.
- R 325.11105**  
Source: 2009 AACS.
- R 325.11106**  
Source: 1979 AC.
- R 325.11107**  
Source: 1979 AC.
- R 325.11108**  
Source: 1979 AC.
- R 325.11109**  
Source: 1979 AC.
- R 325.11110**  
Source: 2009 AACS.
- R 325.11111**  
Source: 2009 AACS.
- R 325.11112**  
Source: 1979 AC.
- R 325.11113**  
Source: 1979 AC.
- R 325.11114**  
Source: 1979 AC.
- R 325.11115**  
Source: 1979 AC.
- R 325.11116**  
Source: 1979 AC.
- R 325.11117**  
Source: 2009 AACS.
- R 325.11118**  
Source: 2009 AACS.

**PART 12. RELIABILITY**

- R 325.11201**  
Source: 1979 AC.

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**R 325.11202**  
Source: 2009 AACS.

**R 325.11203**  
Source: 2009 AACS.

**R 325.11204**  
Source: 2009 AACS.

**R 325.11205**  
Source: 2009 AACS.

**R 325.11206**  
Source: 2009 AACS.

**R 325.11207**  
Source: 1979 AC.

**PART 13. CONSTRUCTION PLANS AND SPECIFICATIONS AND PERMITS**

**R 325.11301**  
Source: 2009 AACS.

**R 325.11302**  
Source: 2009 AACS.

**R 325.11303**  
Source: 2009 AACS.

**R 325.11304**  
Source: 2009 AACS.

**R 325.11305**  
Source: 2009 AACS.

**R 325.11306**  
Source: 2009 AACS.

**R 325.11307**  
Source: 1979 AC.

**R 325.11308**  
Source: 2009 AACS.

**R 325.11309**  
Source: 1979 AC.

**R 325.11310**  
Source: 2009 AACS.

**R 325.11311**  
Source: 2009 AACS.

**PART 14. CROSS-CONNECTIONS**

**R 325.11401**  
Source: 1979 AC.

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**R 325.11402**  
Source: 2009 AACS.

**R 325.11403**  
Source: 1979 AC.

**R 325.11404**  
Source: 2009 AACS.

**R 325.11405**  
Source: 2009 AACS.

**R 325.11406**  
Source: 1998-2000 AACS.

**R 325.11407**  
Source: 1979 AC.

**PART 15. OPERATION REPORTS AND RECORDKEEPING**

**R 325.11501**  
Source: 2009 AACS.

**R 325.11502**  
Source: 2009 AACS.

**R 325.11503**  
Source: 2003 AACS.

**R 325.11504**  
Source: 2009 AACS.

**R 325.11505**  
Source: 2009 AACS.

**R 325.11505a**  
Source: 2009 AACS.

**R 325.11506**  
Source: 2009 AACS.

**R 325.11507**  
Source: 2009 AACS.

**R 325.11508**  
Source: 2009 AACS.

**R 325.11509**  
Source: 2009 AACS.

**PART 16. GENERAL PLANS**

**R 325.11601**  
Source: 2009 AACS.

**R 325.11602**  
Source: 2009 AACS.

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**R 325.11603**  
Source: 2009 AACS.

**R 325.11604**  
Source: 2009 AACS.

**R 325.11605**  
Source: 2009 AACS.

**R 325.11606**  
Source: 2009 AACS.

**PART 17. OWNERSHIP OF PUBLIC WATER SUPPLIES**

**R 325.11701**  
Source: 1979 AC.

**R 325.11702**  
Source: 1979 AC.

**R 325.11703**  
Source: 2009 AACS.

**R 325.11704**  
Source: 1979 AC.

**R 325.11705**  
Source: 1979 AC.

**R 325.11706**  
Source: 1979 AC.

**R 325.11707**  
Source: 2009 AACS.

**R 325.11708**  
Source: 2009 AACS.

**R 325.11709**  
Source: 1979 AC.

**R 325.11710**  
Source: 1979 AC.

**R 325.11711**  
Source: 2009 AACS.

**R 325.11712**  
Source: 1979 AC.

**R 325.11713**  
Source: 2009 AACS.

**PART 19. EXAMINATION AND CERTIFICATION OF OPERATORS**

**R 325.11901**  
Source: 1998-2000 AACS.

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**R 325.11902**  
Source: 1998-2000 AACS.

**R 325.11903**  
Source: 1998-2000 AACS.

**R 325.11904**  
Source: 2009 AACS.

**R 325.11905**  
Source: 1998-2000 AACS.

**R 325.11906**  
Source: 1998-2000 AACS.

**R 325.11906a**  
Source: 2009 AACS.

**R 325.11906b**  
Source: 1998-2000 AACS.

**R 325.11907**  
Source: 1991 AACS.

**R 325.11908**  
Source: 2009 AACS.

**R 325.11909**  
Source: 1991 AACS.

**R 325.11910**  
Source: 1998-2000 AACS.

**R 325.11911**  
Source: 1998-2000 AACS.

**R 325.11912**  
Source: 1998-2000 AACS.

**R 325.11913**  
Source: 2009 AACS.

**R 325.11914**  
Source: 1998-2000 AACS.

**R 325.11915**  
Source: 2009 AACS.

**R 325.11915a**  
Source: 1998-2000 AACS.

**R 325.11916**  
Source: 1997 AACS.

**R 325.11917**  
Source: 2009 AACS.

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**R 325.11918**  
Source: 1979 AC.

**PART 21. APPROVAL OF CHEMICALS AND OTHER MATERIALS**

**R 325.12101**  
Source: 1979 AC.

**R 325.12102**  
Source: 2009 AACS.

**R 325.12103**  
Source: 1979 AC.

**R 325.12104**  
Source: 1979 AC.

**R 325.12105**  
Source: 1979 AC.

**R 325.12106**  
Source: 1979 AC.

**R 325.12107**  
Source: 1979 AC.

**R 325.12108**  
Source: 1979 AC.

**R 325.12109**  
Source: 1979 AC.

**R 325.12110**  
Source: 1979 AC.

**PART 23. EMERGENCY RESPONSE PLANS**

**R 325.12301**  
Source: 2009 AACS.

**R 325.12302**  
Source: 2009 AACS.

**R 325.12303**  
Source: 2009 AACS.

**R 325.12304**  
Source: 2009 AACS.

**PART 24. WATER HAULING EQUIPMENT STANDARDS**

**R 325.12401**  
Source: 1979 AC.

**R 325.12402**  
Source: 1979 AC.

**R 325.12403**  
Source: 1979 AC.

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**R 325.12404**  
Source: 1979 AC.

**R 325.12405**  
Source: 1979 AC.

**R 325.12406**  
Source: 1979 AC.

**R 325.12407**  
Source: 1979 AC.

**R 325.12408**  
Source: 1979 AC.

**PART 25. LICENSING OF WATER HAULERS**

**R 325.12501**  
Source: 1979 AC.

**R 325.12502**  
Source: 1979 AC.

**R 325.12503**  
Source: 2009 AACCS.

**R 325.12504**  
Source: 1979 AC.

**R 325.12505**  
Source: 2009 AACCS.

**R 325.12506**  
Source: 1979 AC.

**R 325.12507**  
Source: 1979 AC.

**R 325.12508**  
Source: 1979 AC.

**R 325.12509**  
Source: 1979 AC.

**R 325.12510**  
Source: 1979 AC.

**PART 26. BOTTLED WATER**

**R 325.12601**  
Source: 1979 AC.

**R 325.12602**  
Source: 1979 AC.

**R 325.12603**  
Source: 1979 AC.

**R 325.12604**  
Source: 1979 AC.

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**R 325.12605**  
Source: 1979 AC.

**R 325.12606**  
Source: 1979 AC.

**PART 27. LABORATORY CERTIFICATION**

**R 325.12701**  
Source: 2009 AACS.

**R 325.12702**  
Source: 2005 AACS.

**R 325.12705**  
Source: 2005 AACS.

**R 325.12706**  
Source: 2005 AACS.

**R 325.12707**  
Source: 2009 AACS.

**PART 28. WELLHEAD PROTECTION GRANT ASSISTANCE**

**R 325.12801**  
Source: 2009 AACS.

**R 325.12802**  
Source: 2009 AACS.

**R 325.12803**  
Source: 2009 AACS.

**R 325.12804**  
Source: 2009 AACS.

**R 325.12805**  
Source: 2009 AACS.

**R 325.12806**  
Source: 2009 AACS.

**R 325.12807**  
Source: 2009 AACS.

**R 325.12808**  
Source: 2009 AACS.

**R 325.12809**  
Source: 2009 AACS.

**R 325.12810**  
Source: 2009 AACS.

**R 325.12812**  
Source: 2009 AACS.

**R 325.12813**  
Source: 2009 AACS.

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**R 325.12814**  
Source: 2009 AACS.

**R 325.12815**  
Source: 2009 AACS.

**R 325.12816**  
Source: 2009 AACS.

**R 325.12817**  
Source: 2009 AACS.

**R 325.12818**  
Source: 2009 AACS.

**R 325.12819**  
Source: 2009 AACS.

**R 325.12820**  
Source: 2009 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**OFFICE OF LOCAL HEALTH SERVICES**  
**LOCAL HEALTH PERSONNEL**

**R 325.13001**  
Source: 2011 AACS.

**R 325.13002**  
Source: 2011 AACS.

**R 325.13003**  
Source: 1980 AACS.

**R 325.13004**  
Source: 1980 AACS.

**R 325.13004a**  
Source: 2011 AACS.

**R 325.13005**  
Source: 1980 AACS.

**R 325.13006**  
Source: 1980 AACS.

**R 325.13007**  
Source: 1980 AACS.

**R 325.13008**  
Source: 1980 AACS.

**R 325.13009**  
Source: 1980 AACS.

**COST-SHARED SERVICES**

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**R 325.13051**  
Source: 1981 AACS.

**R 325.13053**  
Source: 1981 AACS.

**R 325.13055**  
Source: 1981 AACS.

**R 325.13057**  
Source: 1981 AACS.

**R 325.13059**  
Source: 1981 AACS.

**R 325.13061**  
Source: 1981 AACS.

**R 325.13063**  
Source: 1981 AACS.

**R 325.13065**  
Source: 1981 AACS.

**R 325.13067**  
Source: 1981 AACS.

**R 325.13069**  
Source: 1981 AACS.

**R 325.13071**  
Source: 1981 AACS.

**DIVISION OF CHILD HEALTH**  
**VISION SCREENING AND TESTING**

**R 325.13091**  
Source: 2004 AACS.

**R 325.13092**  
Source: 2004 AACS.

**R 325.13093**  
Source: 1981 AACS.

**R 325.13094**  
Source: 2004 AACS.

**R 325.13095**  
Source: 1981 AACS.

**R 325.13096**  
Source: 1981 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**  
**BUREAU OF HEALTH FACILITIES**

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**HOSPICE**

**PART 1. GENERAL PROVISIONS**

**R 325.13101**  
Source: 2003 AACS.

**R 325.13102**  
Source: 2003 AACS.

**R 325.13104**  
Source: 2003 AACS.

**R 325.13105**  
Source: 2003 AACS.

**R 325.13106**  
Source: 2003 AACS.

**R 325.13107**  
Source: 2003 AACS.

**R 325.13108**  
Source: 2003 AACS.

**R 325.13109**  
Source: 2003 AACS.

**R 325.13110**  
Source: 2003 AACS.

**R 325.13111**  
Source: 2003 AACS.

**PART 2. LICENSURE**

**R 325.13201**  
Source: 2003 AACS.

**R 325.13202**  
Source: 2003 AACS.

**R 325.13203**  
Source: 1984 AACS.

**R 325.13204**  
Source: 1984 AACS.

**R 325.13205**  
Source: 2003 AACS.

**R 325.13206**  
Source: 2003 AACS.

**R 325.13207**  
Source: 2003 AACS.

**R 325.13208**

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Source: 2003 AACS.

**R 325.13209**

Source: 2003 AACS.

**R 325.13210**

Source: 1984 AACS.

**R 325.13211**

Source: 2003 AACS.

**R 325.13212**

Source: 2003 AACS.

**R 325.13213**

Source: 2003 AACS.

**PART 3. SERVICES**

**R 325.13301**

Source: 2003 AACS.

**R 325.13302**

Source: 2003 AACS.

**R 325.13303**

Source: 2003 AACS.

**R 325.13304**

Source: 2003 AACS.

**R 325.13305**

Source: 2003 AACS.

**R 325.13306**

Source: 2003 AACS.

**R 325.13307**

Source: 2003 AACS.

**PART 4. HEARING PROCEDURE**

**R 325.13401**

Source: 2003 AACS.

**R 325.13402**

Source: 2003 AACS.

**R 325.13403**

Source: 2003 AACS.

**R 325.13404**

Source: 2003 AACS.

**R 325.13405**

Source: 2003 AACS.

**R 325.13406**

Source: 2003 AACS.

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**R 325.13407**  
Source: 2003 AACS.

**R 325.13408**  
Source: 2003 AACS.

**R 325.13409**  
Source: 2003 AACS.

**R 325.13410**  
Source: 2003 AACS.

**R 325.13411**  
Source: 2003 AACS.

**R 325.13412**  
Source: 2003 AACS.

**R 325.13413**  
Source: 2003 AACS.

**R 325.13414**  
Source: 2003 AACS.

**R 325.13415**  
Source: 2003 AACS.

**R 325.13416**  
Source: 2003 AACS.

**R 325.13417**  
Source: 2003 AACS.

**R 325.13418**  
Source: 2003 AACS.

**PART 5. HOSPICE RESIDENCES PROVIDING CARE ONLY AT THE HOME CARE LEVEL**

**R 325.13501**  
Source: 2003 AACS.

**R 325.13503**  
Source: 2003 AACS.

**R 325.13505**  
Source: 2003 AACS.

**R 325.13507**  
Source: 2003 AACS.

**R 325.13509**  
Source: 2003 AACS.

**R 325.13511**  
Source: 2003 AACS.

**R 325.13513**

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Source: 2003 AACS.

**R 325.13515**

Source: 2003 AACS.

**R 325.13517**

Source: 2003 AACS.

**R 325.13519**

Source: 2003 AACS.

**R 325.13521**

Source: 2003 AACS.

**R 325.13523**

Source: 2003 AACS.

**R 325.13525**

Source: 2003 AACS.

**R 325.13527**

Source: 2003 AACS.

**R 325.13529**

Source: 2003 AACS.

**R 325.13531**

Source: 2003 AACS.

**R 325.13533**

Source: 2003 AACS.

**R 325.13535**

Source: 2003 AACS.

**R 325.13537**

Source: 2003 AACS.

**R 325.13539**

Source: 2003 AACS.

**R 325.13541**

Source: 2003 AACS.

**R 325.13543**

Source: 2003 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**OFFICE OF SUBSTANCE ABUSE SERVICES**  
**SUBSTANCE ABUSE SERVICE PROGRAM**

**PART 1. GENERAL PROVISIONS**

**R 325.14101**

Source: 2006 AACS.

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**R 325.14102**  
Source: 2006 AACS.

**R 325.14103**  
Source: 2006 AACS.

**R 325.14104**  
Source: 1981 AACS.

**R 325.14105**  
Source: 1981 AACS.

**R 325.14106**  
Source: 1981 AACS.

**R 325.14107**  
Source: 1981 AACS.

**R 325.14108**  
Source: 1981 AACS.

**R 325.14109**  
Source: 1981 AACS.

**R 325.14110**  
Source: 1981 AACS.

**R 325.14111**  
Source: 1981 AACS.

**R 325.14112**  
Source: 1981 AACS.

**R 325.14113**  
Source: 1981 AACS.

**R 325.14114**  
Source: 1981 AACS.

**R 325.14115**  
Source: 1981 AACS.

**R 325.14116**  
Source: 1988 AACS.

**R 325.14117**  
Source: 1981 AACS.

**R 325.14125**  
Source: 1981 AACS.

**PART 2. LICENSURE OF SUBSTANCE ABUSE PROGRAMS**

**R 325.14201**  
Source: 1981 AACS.

**R 325.14202**  
Source: 1981 AACS.

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**R 325.14203**  
Source: 1981 AACS.

**R 325.14204**  
Source: 1981 AACS.

**R 325.14205**  
Source: 1981 AACS.

**R 325.14206**  
Source: 1981 AACS.

**R 325.14207**  
Source: 1981 AACS.

**R 325.14208**  
Source: 2006 AACS.

**R 325.14209**  
Source: 1981 AACS.

**R 325.14210**  
Source: 1981 AACS.

**R 325.14211**  
Source: 1981 AACS.

**R 325.14212**  
Source: 1981 AACS.

**R 325.14213**  
Source: 2006 AACS.

**R 325.14214**  
Source: 1981 AACS.

**PART 3. RECIPIENT RIGHTS**

**R 325.14301**  
Source: 1981 AACS.

**R 325.14302**  
Source: 1981 AACS.

**R 325.14303**  
Source: 1981 AACS.

**R 325.14304**  
Source: 1981 AACS.

**R 325.14305**  
Source: 1981 AACS.

**R 325.14306**  
Source: 1981 AACS.

**PART 4. METHADONE TREATMENT AND OTHER CHEMOTHERAPY**

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**R 325.14401**  
Source: 1981 AACS.

**R 325.14402**  
Source: 1981 AACS.

**R 325.14403**  
Source: 1981 AACS.

**R 325.14404**  
Source: 1981 AACS.

**R 325.14405**  
Source: 1981 AACS.

**R 325.14406**  
Source: 1981 AACS.

**R 325.14407**  
Source: 1981 AACS.

**R 325.14408**  
Source: 1981 AACS.

**R 325.14409**  
Source: 1981 AACS.

**R 325.14410**  
Source: 1981 AACS.

**R 325.14411**  
Source: 1981 AACS.

**R 325.14412**  
Source: 1981 AACS.

**R 325.14413**  
Source: 1981 AACS.

**R 325.14414**  
Source: 1981 AACS.

**R 325.14415**  
Source: 1981 AACS.

**R 325.14416**  
Source: 1981 AACS.

**R 325.14417**  
Source: 1981 AACS.

**R 325.14418**  
Source: 1981 AACS.

**R 325.14419**  
Source: 2006 AACS.

**R 325.14420**  
Source: 1981 AACS.

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**R 325.14421**  
Source: 1981 AACS.

**R 325.14422**  
Source: 1981 AACS.

**R 325.14423**  
Source: 1981 AACS.

**PART 5. PREVENTION**

**R 325.14501**  
Source: 1981 AACS.

**R 325.14521**  
Source: 2006 AACS.

**R 325.14522**  
Source: 2006 AACS.

**R 325.14523**  
Source: 2006 AACS.

**R 325.14524**  
Source: 2006 AACS.

**R 325.14525**  
Source: 2006 AACS.

**R 325.14526**  
Source: 2006 AACS.

**R 325.14527**  
Source: 2006 AACS.

**R 325.14528**  
Source: 2006 AACS.

**R 325.14529**  
Source: 2006 AACS.

**R 325.14530**  
Source: 2006 AACS.

**PART 6. CASEFINDING**

**R 325.14601**  
Source: 1981 AACS.

**R 325.14602**  
Source: 1981 AACS.

**R 325.14603**  
Source: 1981 AACS.

**R 325.14621**  
Source: 2006 AACS.

**R 325.14622**

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Source: 2006 AACS.

**R 325.14623**

Source: 2006 AACS.

**PART 7. OUTPATIENT PROGRAMS**

**R 325.14701**

Source: 1981 AACS.

**R 325.14702**

Source: 1981 AACS.

**R 325.14703**

Source: 1981 AACS.

**R 325.14704**

Source: 1981 AACS.

**R 325.14705**

Source: 1981 AACS.

**R 325.14706**

Source: 1981 AACS.

**R 325.14707**

Source: 1981 AACS.

**R 325.14708**

Source: 1981 AACS.

**R 325.14709**

Source: 1981 AACS.

**R 325.14710**

Source: 1981 AACS.

**R 325.14711**

Source: 1981 AACS.

**R 325.14712**

Source: 1981 AACS.

**PART 8. INPATIENT PROGRAMS**

**R 325.14801**

Source: 1981 AACS.

**R 325.14802**

Source: 1981 AACS.

**R 325.14803**

Source: 1981 AACS.

**R 325.14804**

Source: 1981 AACS.

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**R 325.14805**  
Source: 1981 AACS.

**R 325.14806**  
Source: 1981 AACS.

**R 325.14807**  
Source: 1981 AACS.

**PART 9. RESIDENTIAL PROGRAMS**

**R 325.14901**  
Source: 1981 AACS.

**R 325.14902**  
Source: 1981 AACS.

**R 325.14903**  
Source: 1981 AACS.

**R 325.14904**  
Source: 1981 AACS.

**R 325.14905**  
Source: 1981 AACS.

**R 325.14906**  
Source: 1981 AACS.

**R 325.14907**  
Source: 1981 AACS.

**R 325.14908**  
Source: 1981 AACS.

**R 325.14909**  
Source: 1981 AACS.

**R 325.14910**  
Source: 1981 AACS.

**R 325.14911**  
Source: 1981 AACS.

**R 325.14921**  
Source: 1981 AACS.

**R 325.14922**  
Source: 1981 AACS.

**R 325.14923**  
Source: 1981 AACS.

**R 325.14924**  
Source: 1981 AACS.

**R 325.14925**  
Source: 1981 AACS.

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**R 325.14926**  
Source: 1981 AACS.

**R 325.14927**  
Source: 1981 AACS.

**R 325.14928**  
Source: 1981 AACS.

**DEPARTMENT OF ENVIRONMENTAL QUALITY**  
**DIVISION OF OCCUPATIONAL HEALTH**  
**CLASS IV DRY CLEANING ESTABLISHMENTS**

**PART 1. GENERAL PROVISIONS**

**R 325.17101**  
Source: 2004 AACS.

**R 325.17102**  
Source: 2004 AACS.

**R 325.17103**  
Source: 2004 AACS.

**R 325.17104**  
Source: 2004 AACS.

**R 325.17105**  
Source: 2004 AACS.

**R 325.17106**  
Source: 2004 AACS.

**R 325.17107**  
Source: 2004 AACS.

**R 325.17108**  
Source: 2004 AACS.

**R 325.17109**  
Source: 2004 AACS.

**PART 2. DRAWINGS**

**R 325.17201**  
Source: 2004 AACS.

**R 325.17202**  
Source: 2004 AACS.

**R 325.17203**  
Source: 2004 AACS.

**R 325.17203a**  
Source: 2004 AACS.

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**R 325.17204**  
Source: 2004 AACS.

**R 325.17205**  
Source: 2004 AACS.

**R 325.17206**  
Source: 2004 AACS.

**R 325.17207**  
Source: 2004 AACS.

**R 325.17208**  
Source: 2004 AACS.

**R 325.17209**  
Source: 2004 AACS.

**R 325.17210**  
Source: 2004 AACS.

**R 325.17211**  
Source: 2004 AACS.

**PART 3. LICENSURE**

**R 325.17301**  
Source: 2004 AACS.

**R 325.17302**  
Source: 2004 AACS.

**R 325.17303**  
Source: 2004 AACS.

**R 325.17304**  
Source: 2004 AACS.

**R 325.17305**  
Source: 2004 AACS.

**R 325.17306**  
Source: 2004 AACS.

**R 325.17307**  
Source: 2004 AACS.

**R 325.17308**  
Source: 2004 AACS.

**R 325.17309**  
Source: 2004 AACS.

**PART 4. DRY CLEANING MACHINE REQUIREMENTS**

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**R 325.17401**  
Source: 2004 AACS.

**R 325.17402**  
Source: 2004 AACS.

**R 325.17403**  
Source: 2004 AACS.

**R 325.17404**  
Source: 2004 AACS.

**R 325.17405**  
Source: 2004 AACS.

**R 325.17406**  
Source: 2004 AACS.

**R 325.17407**  
Source: 2004 AACS.

**R 325.17408**  
Source: 2004 AACS.

**R 325.17409**  
Source: 2004 AACS.

**PART 5. BUILDING REQUIREMENTS**

**R 325.17501**  
Source: 2004 AACS.

**R 325.17502**  
Source: 2004 AACS.

**R 325.17503**  
Source: 2004 AACS.

**R 325.17504**  
Source: 2004 AACS.

**R 325.17505**  
Source: 2004 AACS.

**R 325.17506**  
Source: 2004 AACS.

**R 325.17507**  
Source: 2004 AACS.

**R 325.17508**  
Source: 2004 AACS.

**R 325.17509**  
Source: 2004 AACS.

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**R 325.17510**  
Source: 2004 AACS.

**PART 7. INSTALLATION, OPERATION, AND VENTILATION**

**R 325.17701**  
Source: 2004 AACS.

**R 325.17702**  
Source: 2004 AACS.

**R 325.17703**  
Source: 2004 AACS.

**R 325.17704**  
Source: 2004 AACS.

**R 325.17705**  
Source: 2004 AACS.

**R 325.17706**  
Source: 2004 AACS.

**R 325.17707**  
Source: 2004 AACS.

**R 325.17708**  
Source: 2004 AACS.

**R 325.17709**  
Source: 2004 AACS.

**R 325.17710**  
Source: 2004 AACS.

**R 325.17711**  
Source: 2004 AACS.

**R 325.17712**  
Source: 2004 AACS.

**R 325.17713**  
Source: 2004 AACS.

**R 325.17714**  
Source: 2004 AACS.

**PART 9. INSPECTIONS OF DRY CLEANING ESTABLISHMENTS**

**R 325.17901**  
Source: 2004 AACS.

**R 325.17902**  
Source: 2004 AACS.

**R 325.17903**

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Source: 2004 AACS.

**R 325.17904**

Source: 2004 AACS.

**R 325.17905**

Source: 2004 AACS.

**R 325.17906**

Source: 2004 AACS.

**PART 10. CONTESTED CASES**

**R 325.18001**

Source: 2004 AACS.

**R 325.18002**

Source: 2004 AACS.

**R 325.18003**

Source: 2004 AACS.

**R 325.18004**

Source: 2004 AACS.

**R 325.18005**

Source: 2004 AACS.

**R 325.18006**

Source: 2004 AACS.

**PART 11. TYPICAL DESIGN PRINTS AND DIAGRAMS**

**R 325.18101**

Source: 2004 AACS.

**R 325.18102**

Source: 2004 AACS.

**R 325.18103**

Source: 2004 AACS.

**R 325.18104**

Source: 2004 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**PROCESS SAFETY MANAGEMENT OF HIGHLY HAZARDOUS CHEMICALS**

**R 325.18301 Scope.**

Rule 1. (1) These rules establish the minimum requirements for preventing or minimizing the consequences of catastrophic releases of toxic, reactive, flammable, or explosive chemicals.

(2) The regulations adopted by R 325.18302 shall apply to all workplaces pursuant to the provisions of these rules.

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(3) The manufacture of explosives, as defined in General Industry Safety Standard Part 55 “Explosives and Blasting Agents,” as referenced in R 325.18303, shall also be in compliance with the requirements contained in the provisions of these rules.

(4) The manufacture of pyrotechnics as defined in General Industry Safety Standard Part 55 “Explosives and Blasting Agents,” as referenced in R 325.18303, shall also be in compliance with the provisions of these rules.

History: 1993 AACCS; 1999 AACCS; 2013 MR 18, Eff. Sept. 26, 2013.

**R 325.18302 Adoption of standards by reference.**

Rule 2. (1) The following federal occupational safety and health administration (OSHA) regulations are adopted by reference in these rules:

(a) 29 C.F.R. §1910.119 “Process safety management of highly hazardous chemicals,” effective February 8, 2013.

(b) 29 C.F.R. §1910.119 Appendix A “List of highly hazardous chemicals, toxics and reactives (mandatory),” effective December 27, 2011.

(2) All of the following provisions apply with respect to the regulations adopted in subrule (1) of this rule:

(a) A reference to 29 C.F.R. §1910.1200 “Hazard communication,” means Occupational Health Standard Part 430 “Hazard Communication;” General Industry Safety Standard Part 92 “Hazard Communication;” and Construction Safety Standard Part 42 “Hazard Communication;” as referenced in R 325.18303.

(b) A reference to 29 C.F.R. §1910.38, “Emergency action plans,” means General Industry Safety Standard Part 6 “Fire Exits,” as referenced in R 325.18303.

(c) A reference to 29 C.F.R. §1910.109, “Explosives and blasting agents,” means General Industry Safety Standard Part 55 “Explosives and Blasting Agents,” as referenced in R 325.18303.

(d) A reference to 29 C.F.R. §1910.252, “Welding, cutting, and brazing,” means Occupational Health Standard Part 529 “Welding, Cutting, and Brazing,” as referenced in R 325.18303.

(e) A reference to 29 C.F.R. §1910.120 “Hazardous waste operations and emergency response,” means Occupational Health Standard Part 432 “Hazardous Waste Operations and Emergency Response,” as referenced in R 325.18303.

(3) The provisions of 29 C.F.R. §1910.119 and 29 C.F.R. §1910.119 Appendix A have the same force and effect as rules promulgated under 1974 PA 154, the Michigan Occupational Safety and Health Act (MIOSHA), MCL 408.1001 to 408.1094.

(4) The standards adopted in subrule (1) of this rule are available from the United States Department of Labor, Occupational Safety and Health Administration website: [www.osha.gov](http://www.osha.gov), at no charge as of the time of adoption of these rules.

(5) The standards adopted in subrule (1) of this rule are also available for inspection at the Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, Lansing, Michigan, 48909-8143.

(6) The standards adopted in subrule (1) of this rule may be obtained from the publisher or may also be obtained from the Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143, plus \$20.00 for shipping and handling.

History: 1993 AACCS; 1999 AACCS; 2013 MR 18, Eff. Sept. 26, 2013.

**R 325.18303 MIOSHA referenced standards.**

Rule 3. The following Michigan occupational safety and health (MIOSHA) standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

(a) Construction Safety Standard Part 42 “Hazard Communication,” R 408.44201 to R 408.44203.

(b) General Industry Safety Standard Part 92 “Hazard Communication,” R 408.19201 to R 408.19203.

(c) Occupational Health Standard Part 430 “Hazard Communication,” R 325.77001 to R 325.77003.

(d) General Industry Safety Standard Part 6 “Fire Exits,” R 408.10601 to R 408.10697.

(e) General Industry Safety Standard Part 55 “Explosives and Blasting Agents,” R 408.15501.

(f) Occupational Health Standard Part 432 “Hazardous Waste Operations and Emergency Response,” R 325.52101 to R 325.52137.

(g) Occupational Health Standard Part 529 “Welding, Cutting, and Brazing,” R 325.52901 to R 325.52908.

History: 2013 MR 18, Eff. Sept. 26, 2013.

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**HEALTH FACILITIES SERVICES ADMINISTRATION**  
**NURSING HOMES AND NURSING CARE FACILITIES**

**PART 1. GENERAL PROVISIONS**

**R 325.20101**  
Source: 1981 AACCS.

**R 325.20102**  
Source: 1981 AACCS.

**R 325.20103**  
Source: 1981 AACCS.

**R 325.20104**  
Source: 1983 AACCS.

**R 325.20106**  
Source: 1981 AACCS.

**R 325.20107**  
Source: 1981 AACCS.

**R 325.20108**  
Source: 1981 AACCS.

**R 325.20109**  
Source: 1981 AACCS.

**R 325.20110**  
Source: 1981 AACCS.

**R 325.20111**  
Source: 1981 AACCS.

**R 325.20112**  
Source: 1981 AACCS.

**R 325.20113**  
Source: 1983 AACCS.

**R 325.20114**  
Source: 1981 AACCS.

**R 325.20115**  
Source: 1981 AACCS.

**R 325.20116**  
Source: 1981 AACCS.

**R 325.20117**  
Source: 1983 AACCS.

**R 325.20118**  
Source: 1981 AACCS.

**PART 2. LICENSURE**

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**R 325.20201**  
Source: 1981 AACS.

**R 325.20202**  
Source: 1981 AACS.

**R 325.20203**  
Source: 1981 AACS.

**R 325.20204**  
Source: 1981 AACS.

**R 325.20205**  
Source: 1981 AACS.

**R 325.20206**  
Source: 1983 AACS.

**R 325.20207**  
Source: 1981 AACS.

**R 325.20208**  
Source: 1981 AACS.

**R 325.20209**  
Source: 1981 AACS.

**R 325.20210**  
Source: 1981 AACS.

**R 325.20211**  
Source: 1981 AACS.

**R 325.20212**  
Source: 1981 AACS.

**R 325.20213**  
Source: 1981 AACS.

**R 325.20214**  
Source: 1981 AACS.

**R 325.20215**  
Source: 1981 AACS.

**PART 3. ACCESS TO NURSING HOMES AND PATIENTS**

**R 325.20301**  
Source: 1981 AACS.

**R 325.20302**  
Source: 1983 AACS.

**R 325.20303**  
Source: 1983 AACS.

**R 325.20304**  
Source: 1983 AACS.

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**PART 4. ADMINISTRATIVE MANAGEMENT OF HOMES**

**R 325.20401**  
Source: 1981 AACCS.

**R 325.20402**  
Source: 1981 AACCS.

**R 325.20403**  
Source: 1981 AACCS.

**R 325.20404**  
Source: 1983 AACCS.

**R 325.20405**  
Source: 1981 AACCS.

**R 325.20406**  
Source: 1983 AACCS.

**R 325.20407**  
Source: 1981 AACCS.

**PART 5. PATIENT CARE**

**R 325.20501**  
Source: 1981 AACCS.

**R 325.20502**  
Source: 1983 AACCS.

**R 325.20503**  
Source: 1981 AACCS.

**R 325.20504**  
Source: 1981 AACCS.

**R 325.20505**  
Source: 1981 AACCS.

**R 325.20506**  
Source: 1981 AACCS.

**R 325.20507**  
Source: 1981 AACCS.

**R 325.20508**  
Source: 1981 AACCS.

**R 325.20509**  
Source: 1981 AACCS.

**PART 6. PHYSICIAN SERVICES**

**R 325.20601**  
Source: 1981 AACCS.

**R 325.20602**

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Source: 1981 AACS.

**R 325.20603**

Source: 1983 AACS.

**R 325.20604**

Source: 1981 AACS.

**R 325.20605**

Source: 1983 AACS.

**R 325.20606**

Source: 1981 AACS.

**PART 7. NURSING SERVICES**

**R 325.20701**

Source: 1983 AACS.

**R 325.20702**

Source: 1983 AACS.

**R 325.20703**

Source: 1986 AACS.

**R 325.20704**

Source: 1986 AACS.

**R 325.20705**

Source: 1981 AACS.

**R 325.20706**

Source: 1981 AACS.

**R 325.20707**

Source: 1983 AACS.

**R 325.20708**

Source: 1981 AACS.

**R 325.20709**

Source: 1984 AACS.

**R 325.20710**

Source: 1981 AACS.

**R 325.20711**

Source: 1983 AACS.

**R 325.20712**

Source: 1983 AACS.

**R 325.20713**

Source: 1981 AACS.

**R 325.20714**

Source: 1983 AACS.

**PART 8. DIETARY SERVICES**

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**R 325.20801**  
Source: 1983 AACS.

**R 325.20802**  
Source: 1981 AACS.

**R 325.20803**  
Source: 1981 AACS.

**R 325.20804**  
Source: 1983 AACS.

**R 325.20805**  
Source: 1981 AACS.

**R 325.20806**  
Source: 1983 AACS.

**PART 9. PHARMACEUTICAL SERVICES**

**R 325.20901**  
Source: 1983 AACS.

**R 325.20902**  
Source: 1981 AACS.

**R 325.20903**  
Source: 1981 AACS.

**R 325.20904**  
Source: 1981 AACS.

**R 325.20905**  
Source: 1981 AACS.

**R 325.20906**  
Source: 1981 AACS.

**PART 10. OTHER SERVICES**

**R 325.21001**  
Source: 1981 AACS.

**R 325.21002**  
Source: 1981 AACS.

**R 325.21003**  
Source: 1986 AACS.

**PART 11. RECORDS**

**R 325.21101**  
Source: 1983 AACS.

**R 325.21102**  
Source: 1983 AACS.

**R 325.21103**

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Source: 1981 AACS.

**R 325.21104**

Source: 1981 AACS.

**R 325.21105**

Source: 1983 AACS.

**PART 12. MEDICAL AUDIT, UTILIZATION REVIEW, AND QUALITY CONTROL**

**R 325.21201**

Source: 1981 AACS.

**R 325.21203**

Source: 1981 AACS.

**R 325.21204**

Source: 1981 AACS.

**PART 13. BUILDINGS AND GROUNDS**

**R 325.21301**

Source: 1981 AACS.

**R 325.21302**

Source: 1981 AACS.

**R 325.21303**

Source: 1983 AACS.

**R 325.21304**

Source: 1981 AACS.

**R 325.21305**

Source: 1983 AACS.

**R 325.21306**

Source: 1983 AACS.

**R 325.21307**

Source: 1983 AACS.

**R 325.21308**

Source: 1981 AACS.

**R 325.21309**

Source: 1981 AACS.

**R 325.21310**

Source: 1981 AACS.

**R 325.21311**

Source: 1983 AACS.

**R 325.21312**

Source: 1981 AACS.

**R 325.21313**

Source: 1981 AACS.

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**R 325.21314**  
Source: 1981 AACS.

**R 325.21315**  
Source: 1981 AACS.

**R 325.21316**  
Source: 1983 AACS.

**R 325.21317**  
Source: 1983 AACS.

**R 325.21318**  
Source: 1981 AACS.

**R 325.21319**  
Source: 1981 AACS.

**R 325.21320**  
Source: 1981 AACS.

**R 325.21321**  
Source: 1981 AACS.

**R 325.21322**  
Source: 1981 AACS.

**R 325.21323**  
Source: 1983 AACS.

**R 325.21324**  
Source: 1981 AACS.

**R 325.21325**  
Source: 1981 AACS.

**R 325.21326**  
Source: 1983 AACS.

**R 325.21327**  
Source: 1983 AACS.

**R 325.21328**  
Source: 1981 AACS.

**PART 14. CHILD CARE HOMES AND CHILD CARE UNITS**

**R 325.21401**  
Source: 1981 AACS.

**R 325.21402**  
Source: 1981 AACS.

**R 325.21403**  
Source: 1981 AACS.

**R 325.21404**  
Source: 1981 AACS.

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**R 325.21405**  
Source: 1981 AACS.

**R 325.21406**  
Source: 1981 AACS.

**R 325.21407**  
Source: 1981 AACS.

**R 325.21408**  
Source: 1981 AACS.

**R 325.21409**  
Source: 1981 AACS.

**R 325.21410**  
Source: 1981 AACS.

**R 325.21411**  
Source: 1981 AACS.

**PART 15. CERTIFICATION**

**R 325.21501**  
Source: 1981 AACS.

**R 325.21502**  
Source: 1981 AACS.

**R 325.21503**  
Source: 1981 AACS.

**R 325.21504**  
Source: 1981 AACS.

**R 325.21505**  
Source: 1981 AACS.

**R 325.21506**  
Source: 1981 AACS.

**R 325.21507**  
Source: 1981 AACS.

**R 325.21508**  
Source: 1981 AACS.

**R 325.21509**  
Source: 1981 AACS.

**R 325.21510**  
Source: 1981 AACS.

**R 325.21511**  
Source: 1981 AACS.

**R 325.21512**  
Source: 1981 AACS.

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**R 325.21513**  
Source: 1981 AACS.

**R 325.21514**  
Source: 1981 AACS.

**R 325.21515**  
Source: 1981 AACS.

**PART 16. NURSING FACILITIES FOR CARE OF MENTALLY ILL PATIENTS**

**R 325.21601**  
Source: 1981 AACS.

**R 325.21602**  
Source: 1981 AACS.

**R 325.21603**  
Source: 1981 AACS.

**R 325.21604**  
Source: 1981 AACS.

**R 325.21605**  
Source: 1981 AACS.

**PART 17. NURSING FACILITIES FOR CARE OF MENTALLY RETARDED PATIENTS**

**R 325.21701**  
Source: 1981 AACS.

**R 325.21702**  
Source: 1981 AACS.

**R 325.21703**  
Source: 1981 AACS.

**R 325.21704**  
Source: 1981 AACS.

**R 325.21705**  
Source: 1981 AACS.

**PART 18. NURSING FACILITIES FOR CARE OF TUBERCULOSIS PATIENTS**

**R 325.21801**  
Source: 1981 AACS.

**R 325.21802**  
Source: 1981 AACS.

**R 325.21803**  
Source: 1981 AACS.

**R 325.21804**  
Source: 1981 AACS.

**R 325.21805**

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Source: 1981 AACS.

**R 325.21806**

Source: 1981 AACS.

**R 325.21807**

Source: 1981 AACS.

**PART 19. HEARING PROCEDURE**

**R 325.21901**

Source: 1981 AACS.

**R 325.21902**

Source: 1981 AACS.

**R 325.21903**

Source: 1981 AACS.

**R 325.21904**

Source: 1981 AACS.

**R 325.21905**

Source: 1981 AACS.

**R 325.21906**

Source: 1981 AACS.

**R 325.21907**

Source: 1981 AACS.

**R 325.21908**

Source: 1981 AACS.

**R 325.21909**

Source: 1981 AACS.

**R 325.21910**

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**R 325.21911**

Source: 1981 AACS.

**R 325.21912**

Source: 1981 AACS.

**R 325.21913**

Source: 1981 AACS.

**R 325.21914**

Source: 1981 AACS.

**R 325.21915**

Source: 1981 AACS.

**R 325.21916**

Source: 1981 AACS.

**R 325.21917**

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Source: 1981 AACS.

**R 325.21918**

Source: 1981 AACS.

**R 325.21919**

Source: 1981 AACS.

**R 325.21920**

Source: 1981 AACS.

**R 325.21921**

Source: 1981 AACS.

**R 325.21922**

Source: 1981 AACS.

**PART 20. EDUCATION AND TRAINING OF UNLICENSED NURSING PERSONNEL**

**R 325.22001**

Source: 1983 AACS.

**R 325.22002**

Source: 1983 AACS.

**R 325.22003**

Source: 1983 AACS.

**R 325.22003a**

Source: 1984 AACS.

**R 325.22004**

Source: 1983 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**

**DIRECTOR'S OFFICE**

**EMERGENCY MEDICAL SERVICES - LIFE SUPPORT AGENCIES & MEDICAL CONTROL**

**PART 1. GENERAL PROVISIONS**

**R 325.22101**

Source: 2004 AACS.

**R 325.22102**

Source: 2004 AACS.

**R 325.22103**

Source: 2004 AACS.

**R 325.22104**

Source: 2004 AACS.

**PART 2. LIFE SUPPORT AGENCIES-GENERAL**

**R 325.22111**

Source: 2004 AACS.

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**R 325.22112**  
Source: 2004 AACS.

**R 325.22113**  
Source: 2004 AACS.

**R 325.22114**  
Source: 2004 AACS.

**R 325.22115**  
Source: 2004 AACS.

**R 325.22116**  
Source: 2004 AACS.

**R 325.22117**  
Source: 2004 AACS.

**R 325.22118**  
Source: 2004 AACS.

**R 325.22119**  
Source: 2004 AACS.

**R 325.22120**  
Source: 2004 AACS.

**R 325.22121**  
Source: 2004 AACS.

**R 325.22122**  
Source: 2004 AACS.

**R 325.22123**  
Source: 2004 AACS.

**R 325.22124**  
Source: 2004 AACS.

**R 325.22125**  
Source: 2004 AACS.

**R 325.22126**  
Source: 2004 AACS.

**R 325.22127**  
Source: 2004 AACS.

**PART 3. AMBULANCE OPERATIONS**

**R 325.22131**  
Source: 2004 AACS.

**R325.22132**  
Source: 2004 AACS.

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**R 325.22133**  
Source: 2004 AACS.

**R 325.22134**  
Source: 2004 AACS.

**R 325.22135**  
Source: 2004 AACS.

**R 325.22136**  
Source: 2004 AACS.

**R 325.22137**  
Source: 2004 AACS.

**R 325.22138**  
Source: 2004 AACS.

**PART 4. NONTRANSPORT PREHOSPITAL LIFE SUPPORT OPERATIONS**

**R 325.22141**  
Source: 2004 AACS.

**R 325.22142**  
Source: 2004 AACS.

**R 325.22143**  
Source: 2004 AACS.

**R 325.22144**  
Source: 2004 AACS.

**R 325.22145**  
Source: 2004 AACS.

**R 325.22146**  
Source: 2004 AACS.

**PART 5. AIRCRAFT TRANSPORT OPERATIONS**

**R 325.22151**  
Source: 2004 AACS.

**R325.22152**  
Source: 2004 AACS.

**R 325.22153**  
Source: 2004 AACS.

**R 325.22154**  
Source: 2004 AACS.

**R 325.22155**  
Source: 2004 AACS.

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**R 325.22156**  
Source: 2004 AACS.

**PART 6. MEDICAL FIRST RESPONSE SERVICES**

**R 325.22161**  
Source: 2004 AACS.

**R 325.22162**  
Source: 2004 AACS.

**R 325.22163**  
Source: 2004 AACS.

**R 325.22164**  
Source: 2004 AACS.

**R 325.22165**  
Source: 2004 AACS.

**R 325.22166**  
Source: 2004 AACS.

**PART 7. AMBULANCE OPERATION UPGRADE LICENSE**

**R 325.22171**  
Source: 2004 AACS.

**R 325.22172**  
Source: 2004 AACS.

**R 325.22173**  
Source: 2004 AACS.

**R 325.22174**  
Source: 2004 AACS.

**R 325.22175**  
Source: 2004 AACS.

**R 325.22176**  
Source: 2004 AACS.

**R 325.22177**  
Source: 2004 AACS.

**PART 8. LIFE SUPPORT VEHICLES**

**R 325.22181**  
Source: 2004 AACS.

**R 325.22182**  
Source: 2004 AACS.

**R 325.22183**  
Source: 2004 AACS.

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**R 325.22184**  
Source: 2004 AACS.

**R325.22185**  
Source: 2004 AACS.

**R 325.22186**  
Source: 2004 AACS.

**R 325.22187**  
Source: 2004 AACS.

**R 325.22188**  
Source: 2004 AACS.

**R 325.22189**  
Source: 2004 AACS.

**R 325.22190**  
Source: 2004 AACS.

**R 325.22191**  
Source: 2004 AACS.

**PART 9. COMMUNICATIONS REQUIREMENTS**

**R 325.22192**  
Source: 2004 AACS.

**R 325.22193**  
Source: 2004 AACS.

**R 325.22194**  
Source: 2004 AACS.

**R 325.22195**  
Source: 2004 AACS.

**PART 10. MEDICAL CONTROL AUTHORITY**

**R 325.22201**  
Source: 2004 AACS.

**R 325.22202**  
Source: 2004 AACS.

**R 325.22203**  
Source: 2004 AACS.

**R 325.22204**  
Source: 2004 AACS.

**R 325.22205**  
Source: 2004 AACS.

**R 325.22206**

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Source: 2004 AACS.

**R 325.22207**

Source: 2004 AACS.

**R 325.22208**

Source: 2004 AACS.

**R 325.22209**

Source: 2004 AACS.

**R 325.22210**

Source: 2004 AACS.

**R 325.22211**

Source: 2004 AACS.

**R 325.22212**

Source: 2004 AACS.

**R 325.22213**

Source: 2004 AACS.

**R 325.22214**

Source: 2004 AACS.

**R 325.22215**

Source: 2004 AACS.

**R 325.22216**

Source: 2004 AACS.

**R 325.22217**

Source: 2004 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**

**DIRECTOR'S OFFICE**

**EMERGENCY MEDICAL SERVICES PERSONNEL LICENSING**

**R 325.22301**

Source: 2004 AACS.

**R 325.22302**

Source: 2004 AACS.

**PART 2. EMERGENCY MEDICAL SERVICES PERSONNEL LICENSING**

**R 325.22311**

Source: 2004 AACS.

**R 325.22312**

Source: 2004 AACS.

**R 325.22313**

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Source: 2004 AACCS.

**R 325.22314**

Source: 2004 AACCS.

**R 325.22315**

Source: 2004 AACCS.

**R 325.22316**

Source: 2004 AACCS.

**PART 3. CONTINUING EDUCATION REQUIREMENTS**

**R 325.22321**

Source: 2004 AACCS.

**R 325.22322**

Source: 2004 AACCS.

**R 325.22323**

Source: 2004 AACCS.

**R 325.22324**

Source: 2004 AACCS.

**R 325.22325**

Source: 2004 AACCS.

**R 325.22326**

Source: 2004 AACCS.

**R 325.22327**

Source: 2004 AACCS.

**PART 4. INSTRUCTOR-COORDINATORS**

**R 325.22331**

Source: 2004 AACCS.

**R 325.22332**

Source: 2004 AACCS.

**R 325.22333**

Source: 2004 AACCS.

**R 325.22334**

Source: 2004 AACCS.

**R 325.22335**

Source: 2004 AACCS.

**R 325.22336**

Source: 2004 AACCS.

**R 325.22337**

Source: 2004 AACCS.

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**R 325.22338**  
Source: 2004 AACCS.

**PART 5. EDUCATION PROGRAM REQUIREMENTS**

**R 325.22339**  
Source: 2004 AACCS.

**R 325.22340**  
Source: 2004 AACCS.

**R 325.22341**  
Source: 2004 AACCS.

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Source: 2004 AACCS.

**R 325.22343**  
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**R 325.22344**  
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**PART 6. HEARING PROCEDURES**

**R 325.22346**  
Source: 2004 AACCS.

**R 325.22347**  
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**R 325.22356**  
Source: 2004 AACS.

**R 325.22357**  
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**R 325.23101**  
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**R 325.23102**  
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**R 325.23105**  
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**R 325.23106**  
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**R 325.23107**  
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**PART 2. EMERGENCY MEDICAL SERVICES SYSTEM**

**R 325.23201**  
Source: 2004 AACS.

**R 325.23202**  
Source: 2004 AACS.

**R 325.23203**  
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**PART 3. AMBULANCE PERSONNEL, AMBULANCE ATTENDANTS**

**R 325.23301**  
Source: 2004 AACS.

**R 325.23302**  
Source: 2004 AACS.

**R 325.23303**  
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**R 325.23304**  
Source: 2004 AACS.

**PART 4. ADVANCED EMERGENCY MEDICAL TECHNICIANS, EMERGENCY MEDICAL TECHNICIAN  
SPECIALISTS, EMERGENCY MEDICAL TECHNICIANS**

**R 325.23401**  
Source: 2004 AACS.

**R 325.23402**  
Source: 2004 AACS.

**R 325.23403**  
Source: 2004 AACS.

**R 325.23404**  
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**R 325.23405**  
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**R 325.23406**  
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**R 325.23407**  
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**PART 5. INSTRUCTOR-COORDINATORS**

**R 325.23501**  
Source: 2004 AACS.

**R 325.23502**  
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**R 325.23503**  
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Source: 2004 AACS.

**R 325.23507**

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**PART 6. TRAINING PROGRAM REQUIREMENTS**

**R 325.23601**

Source: 2004 AACS.

**R 325.23602**

Source: 2004 AACS.

**R 325.23603**

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**PART 7. MEDICAL CONTROL**

**R 325.23701**

Source: 2004 AACS.

**R 325.23702**

Source: 2004 AACS.

**R 325.23703**

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**R 325.23704**

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**R 325.23705**

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**R 325.23706**

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**R 325.23801**

Source: 2004 AACS.

**R 325.23802**

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**R 325.23804**

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**R 325.23901**  
Source: 2004 AACS.

**R 325.23902**  
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**R 325.23904**  
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**R 325.23905**  
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**R 325.24001**  
Source: 2004 AACS.

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**R 325.24005**  
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**R 325.24006**  
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**R 325.24008**  
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Source: 2004 AACS.

**R 325.24011**

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**R 325.24016**

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**R 325.24101**

Source: 2004 AACS.

**R 325.24102**

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**R 325.24105**

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Source: 2004 AACS.

**R 325.24110**

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**R 325.24118**

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**DEPARTMENT OF AGRICULTURE**

**BUREAU OF ENVIRONMENTAL AND OCCUPATIONAL HEALTH**

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Source: 2012 AACS.

**R 325.25102**

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**R 325.25404**  
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**R 325.25501**  
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**R 325.25502**  
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**PART 6. TEMPORARY AND MOBILE FOOD SERVICE ESTABLISHMENTS**

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**R 325.25602**  
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**R 325.25708**  
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Source: 2012 AACS.

**R 325.25802**  
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**R 325.25901**  
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Source: 2012 AACS.

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**PART 10. VENTILATION**

**R 325.26001**  
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**R 325.26002**  
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**R 325.26004**  
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**R 325.26007**  
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**R 325.26008**  
Source: 2012 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**OCCUPATIONAL HEALTH STANDARDS**

**OCCUPATIONAL HEALTH STANDARDS--CARCINOGENS**

**R 325.35001 Scope and application.**

Rule 1. (1) These rules apply to any area in which the following carcinogens are manufactured, processed, repackaged, released, handled, or stored, but shall not apply to transshipment in sealed containers, except for the labeling requirements under R 325.35008:

- (a) 4-Nitrobiphenyl, chemical abstracts service register number (CAS No.) 92933.
- (b) alpha-Naphthylamine, CAS No. 134327.
- (c) Methyl chloromethyl ether, CAS No. 107302.
- (d) 3,3'-Dichlorobenzidine (and its salts) CAS No. 91941.
- (e) bis-Chloromethyl ether, CAS No. 542881.
- (f) beta-Naphthylamine, CAS No. 91598.
- (g) Benzidine, CAS No. 92875.
- (h) 4-Aminodiphenyl, CAS No. 92671.

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- (i) Ethyleneimine, CAS No. 151564.
- (j) beta-Propiolactone, CAS No. 57578.
- (k) 2-Acetylaminofluorene, CAS No. 53963.
- (l) 4-Dimethylaminoazo-benzene, CAS No. 60117.
- (m) N-Nitrosodimethylamine, CAS No. 62759.
- (2) These rules shall not apply to any of the following:
  - (a) Solid or liquid mixtures containing less than 0.1% by weight or volume of any of the following:
    - (i) 4-Nitrobiphenyl.
    - (ii) Methyl chloromethyl ether.
    - (iii) Bis-chloromethyl ether.
    - (iv) Beta-Naphthylamine.
    - (v) Benzidine.
    - (vi) 4-Aminodiphenyl.
  - (b) Solid or liquid mixtures containing less than 1.0% by weight or volume of any of the following:
    - (i) Alpha-Naphthylamine.
    - (ii) 3,3'-Dichlorobenzidine (and its salts).
    - (iii) Ethyleneimine.
    - (iv) Beta-Propiolactone.
    - (v) 2-Acetylaminofluorene.
    - (vi) 4-Dimethylaminoazobenzene.
    - (vii) N-Nitrosodimethylamine.

History: 2002 AACCS; 2013 MR 18, Eff. Sept 25, 2013.

**R 325.35002 Definitions.**

Rule 2. As used in these rules:

- (a) "Absolute filter" means a filter capable of retaining 99.97% of a mono disperse aerosol of 0.3 um particles.
- (b) "Authorized employee" means an employee whose duties require him or her to be in the regulated area and who has been specifically assigned by the employer.
- (c) "Carcinogens" means all materials covered in the scope of these rules as described in R 325.35001.
- (d) "Clean change room" means a room where employees put on clean clothing, protective equipment, or both, in an environment free of the carcinogens listed in R 325.135001 (1).
- (e) "Closed system" means an operation involving a carcinogen where containment prevents the release of the material into regulated areas, non-regulated areas, or the external environment.
- (f) "Decontamination" means the inactivation of a carcinogen or its safe disposal.
- (g) "Director" means the director of the Michigan department of licensing and regulatory affairs or his or her designee.
- (h) "Disposal" means the safe removal of the carcinogens from the work environment.
- (i) "Emergency" means an unforeseen circumstance or set of circumstances resulting in the release of a carcinogen that may result in exposure to or contact with the material.
- (j) "External environment" means any environment external to regulated and nonregulated areas.
- (k) "Isolated system" means a fully enclosed structure other than the vessel of containment of a carcinogen that is impervious to the passage of the material and would prevent the entry of the carcinogen into regulated areas, nonregulated areas, or the external environment if leakage or spillage from the vessel of containment occurs.
- (l) "Laboratory-type hood" means a device which is enclosed on the 3 sides and the top and bottom, which is designed and maintained so as to draw air inward at an average linear face velocity of 150 feet per minute with a minimum of 125 feet per minute, and which is designed, constructed, and maintained so that an operation involving a carcinogen within the hood does not require the insertion of any portion of any employee's body other than his or her hands and arms.
- (m) "Nonregulated area" means any area under the control of the employer where entry and exit is neither restricted nor controlled.
- (n) "Open-vessel system" means an operation involving a carcinogen in an open vessel that is not in an isolated system, a laboratory-type hood, nor in any other system affording equivalent protection against the entry of the material into regulated areas, non-regulated areas, or the external environment.
- (o) "Protective clothing" means clothing designed to protect an employee against contact with or exposure to a carcinogen.
- (p) "Regulated area" means an area where entry and exit is restricted and controlled.

History: 2002 AACCS; 2013 MR 18, Eff. Sept. 25, 2013.

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**R 325.35002a MIOSHA standards by reference.**

Rule 2a. The following Michigan occupational safety and health administration (MIOSHA) standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, MI, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, at the time of adoption of these rules, is 4 cents per page.

- (a) Occupational Health Part 430 "Hazard Communication," R 325.77001 to R 325.77003.
- (b) Occupational Health Part 451 "Respiratory Protection," R 325.60051 to R 325.60052.
- (c) Occupational Health Part 470 "Employee Medical Records and Trade Secrets," R 325.3451 to R 325.3476.
- (d) Occupational Health Part 474 "Sanitation," R 325.47401 to R 325.47425.

History: 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.35003 Requirements for areas containing a carcinogen.**

Rule 3. (1) An employer shall ensure that a regulated area be established where a carcinogen is manufactured, processed, used, repackaged, released, handled, or stored.

(2) All areas shall be controlled in accordance with the requirements for the following category or categories describing the operation involved:

(a) Isolated systems. An employer shall ensure that if an isolated system is used, the employees working with a carcinogen within an isolated system such as a "glove box" wash their hands and arms upon completion of the assigned task and before engaging in other activities not associated with the isolated system.

(b) Closed system operation. An employer shall ensure that access to regulated areas be restricted to authorized employees where the carcinogens are stored in sealed containers, or contained in a closed system, including piping systems, with any sample ports or openings closed while the carcinogens are contained within.

(3) If employees are exposed to any of the following, then employers shall ensure that employees wash hands, forearms, face, and neck upon each exit from the regulated areas, close to the point of exit, and before engaging in other activities:

- (a) 4-Nitrobiphenyl.
- (b) Alpha-Naphthylamine.
- (c) 3,3'-Dichlorobenzidine (and its salts).
- (d) Beta-Naphthylamine.
- (e) Benzidine.
- (f) 4-Aminodiphenyl.
- (g) 2-Acetylaminofluorene.
- (h) 4-Dimethylaminoazo-benzene.
- (i) N-Nitrosodimethylamine.

(4) An employer shall ensure that open-vessel system operations as defined in R 325.35002-~~(4)~~ are prohibited.

(5) An employer shall ensure compliance with all of the following provisions when operations involve "laboratory-type hoods" or are in locations where carcinogens are contained in an otherwise "closed system," but are transferred, charged, or discharged into other normally closed containers:

(a) Access shall be restricted to authorized employees only.

(b) Each operation shall be provided with continuous local exhaust ventilation so that air movement is always from ordinary work areas to the operation. Exhaust air shall not be discharged to regulated areas, nonregulated areas, or the external environment unless decontaminated. Clean makeup air shall be introduced in sufficient volume to maintain the correct operation of the local exhaust system.

(c) Employees shall be provided with, and required to wear, clean, full body protective clothing, such as smocks, coveralls, or long-sleeved shirt and pants, shoe covers, and gloves before entering a regulated area.

(d) An employer shall provide each employee engaged in handling operations involving carcinogens addressed by this rule, with, and ensure that each of these employees wears and uses, a NIOSH-certified air-purifying, half-mask respirator with particulate filters for all of the following:

- (i) 4-Nitrobiphenyl
- (ii) Alpha- Naphthylamine
- (iii) 3,3'-Dichlorobenzidine (and its salts)
- (iv) Beta- Naphthylamine
- (v) Benzidine
- (vi) 4-Aminodiphenyl
- (vii) 2-Acetylaminofluorene
- (viii) 4-Dimethylaminoazo-benzene

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(ix) N-Nitrosodimethylamine

(e) An employer shall provide each employee engaged in handling operations involving the carcinogens addressed by this rule, with, and ensure that each of these employees wears and uses any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode, or any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus for all of the following:

(i) Methyl chloromethyl ether

(ii) Bis-Chloromethyl ether

(iii) Ethyleneimine

(iv) Beta-Propiolactone

(f) An employer may substitute a respirator affording employees higher levels of protection than the respirators specified in subrule (6) (d) and (e).

(g) Before each exit from a regulated area, an employer shall require employees to remove and leave protective clothing and equipment at the point of exit and at the last exit of the day and to place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. The contents of the impervious containers shall be identified in accordance with R 325.35006a, R 325.35007, and R 325.35008.

(h) Drinking fountains are prohibited in a regulated area.

(i) Employees shall be required to wash hands, forearms, face, and neck on each exit from the regulated area, close to the point of exit, and before engaging in other activities. An employer shall require employees exposed to any of the following to shower after the last exit of the day:

(i) 4-Nitrobiphenyl.

(ii) Alpha-Naphthylamine.

(iii) 3,3'-Dichlorobenzidine (and its salts).

(iv) Beta-Naphthylamine.

(v) Benzidine.

(vi) 4-Aminodiphenyl.

(vii) 2-Acetylaminofluorene.

(viii) 4-Dimethylaminoazo-benzene.

(ix) N-Nitrosodimethylamine.

(6) If cleanup of leaks of spills, maintenance, or repair operations on contaminated systems or equipment, or any operations involving work in an area where direct contact with a carcinogen could result, then an employer shall ensure that each authorized employee entering that area comply with all of the following requirements:

(a) Be provided with and required to wear clean, impervious garments, including gloves, boots, and a continuous air-supplied hood in accordance with Occupational Health Standard Part 451 "Respiratory Protection," as referenced in R 325.35002a.

(b) Be decontaminated before removing the protective garments and hood.

(c) Shower upon removing the protective garments and hood.

(7) Laboratory activities. All of the following requirements apply to research and quality control activities involving the use of a carcinogen:

(a) Mechanical pipetting aids shall be used for all pipetting procedures.

(b) Experiments, procedures, and equipment that could produce aerosols shall be confined to laboratory-type hoods or glove boxes.

(c) Surfaces on which a carcinogen is handled shall be protected from contamination.

(d) Contaminated wastes and animal carcasses shall be collected in impervious containers that are closed and decontaminated before removal from the work area. The wastes and carcasses shall be incinerated in a manner so that carcinogenic products are not released.

(e) All other forms of carcinogens shall be inactivated before disposal.

(f) Laboratory vacuum systems shall be protected with high-efficiency scrubbers or with disposable absolute filters.

(g) An employer shall ensure that all of the following provisions are met for employees engaged in animal support activities:

(i) Employees shall be provided, and required to wear, a complete protective clothing change, clean each day, including coveralls, or pants and shirt, foot covers, head covers, gloves, and appropriate respiratory protective equipment or devices.

(ii) Employees shall remove and leave protective clothing and equipment at the point of exit before each exit from a regulated area and at the last exit of the day and place used clothing and equipment in impervious containers at the point of exit for purposes of decontamination or disposal. Containers shall comply with requirements set forth in R 325.35008.

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- (iii) Employees shall wash hands, forearms, face, and neck upon each exit from a regulated area close to the point of exit and before engaging in other activities.
- (iv) Employees shall shower after the last exit of the day.
- (h) Air pressure in laboratory areas and animal rooms where a carcinogen is handled and bioassay studies are performed shall be negative in relation to the pressure in surrounding areas. Exhaust air shall not be discharged to regulated areas, nonregulated areas, or the external environment unless decontaminated.
- (i) There shall not be a connection between regulated areas and any other areas through the ventilation system.
- (j) An employer shall maintain a current inventory of carcinogens.
- (k) Ventilated apparatus, such as laboratory-type hoods, shall be tested at least semiannually or immediately after ventilation modification or maintenance operations, by personnel who are fully qualified to certify correct containment and operation.

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.35004 General regulated area requirements.**

Rule 4. (1) An employer shall implement a respiratory protection program in accordance with Occupational Health Standard Part 451 "Respiratory Protection," 29 C.F.R. Rules 1910.134 (b), (c), (d), (except (d) (1) (iii) and (iv), and (d) (3)), and (e) through (m), as referenced in R 325.35002a, which covers each employee required by these rules to use a respirator.

(2) An employer shall ensure that in an emergency, immediate measures are implemented, including, but not limited to, all of the following measures:

- (a) Evacuate the potentially affected area as soon as the emergency has been determined.
- (b) Eliminate the hazardous conditions created by the emergency and decontaminate the potentially affected area before resuming normal operations.
- (c) Special medical surveillance by a physician shall be instituted within 24 hours for employees present in the potentially affected area at the time of the emergency.
- (d) Employees shall shower as soon as possible, unless contraindicated by physical injuries, when an employee has a known contact with a carcinogen.
- (e) Emergency deluge showers and eyewash fountains supplied with running potable water shall be located near, within sight of, and on the same level as, locations where a direct exposure to ethyleneimine or beta-Propiolactone only would be most likely as a result of equipment failure or improper work practice.

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.35005 Hygiene facilities and practices.**

Rule 5. (1) An employer shall take measures to prevent all of the following in regulated areas:

- (a) The storage or consumption of food.
  - (b) The storage or use of containers of beverages.
  - (c) The storage or application of cosmetics.
  - (d) Smoking.
  - (e) The storage of smoking materials, tobacco products, or other products for chewing.
  - (f) The chewing of the items specified in subdivision (e) of this subrule.
- (2) If employees are required by these rules to wash, then washing facilities shall be provided in accordance with Occupational Health Standard Part 474 "Sanitation," as referenced in R 325.35002a.
- (3) If employees are required by these rules to shower, then shower facilities shall be provided in accordance with Occupational Health Standard Part 474 "Sanitation," as referenced in R 325.35002a.
- (4) If employees wear protective clothing and equipment, then clean change rooms shall be provided for the number of employees who are required to change clothes in accordance with Occupational Health Standard Part 474 "Sanitation," as referenced in R 325.35002a.
- (5) Clean change room shall be contiguous to and have an entry from a shower room.
- (6) If toilets are in regulated areas, then the toilets shall be in a separate room.

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.35006**

Source: 2002 AACS.

**R 325.35006a Hazard communication, generally.**

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Rule 6a. (1) Chemical manufacturers, importers, distributors and employers shall comply with Occupational Health Standard Part 430 "Hazard Communication," as referenced in R 325.35002a, for each carcinogen listed in subrule (4) of this rule.

(2) In classifying the hazards of carcinogens listed in subrule (4) of this rule, at a minimum the hazards listed in subrule (4) of this rule are to be addressed.

(3) Employers shall include the carcinogens listed in subrule (4) of this rule in the hazard communication program established to comply with Occupational Health Standard Part 430 "Hazard Communication." Employers shall ensure that each employee has access to labels on containers of the carcinogens listed in subrule (4) of this rule, and to safety data sheets, and is trained in accordance with the requirements of subrule (4) of this rule and Occupational Health Standard Part 430 "Hazard Communication," as referenced in R 325.35002a.

(4) All of the following carcinogens are included:

(a) 4-Nitrobiphenyl: Cancer.

(b) alpha-Naphthylamine: Cancer; skin irritation; and acute toxicity effects.

(c) Methyl chloromethyl ether: Cancer; skin, eye and respiratory effects; acute toxicity effects; and flammability.

(d) 3,3'-Dichlorobenzidine (and its salts): Cancer and skin sensitization.

(e) bis-Chloromethyl ether: Cancer; skin, eye, and respiratory tract effects; acute toxicity effects; and flammability.

(f) beta-Naphthylamine: Cancer and acute toxicity effects.

(g) Benzidine: Cancer and acute toxicity effects.

(h) 4-Aminodiphenyl: Cancer.

(i) Ethyleneimine: Cancer; mutagenicity; skin and eye effects; liver effects; kidney effects; acute toxicity effects; and flammability.

(j) beta-Propiolactone: Cancer; skin irritation; eye effects; and acute toxicity effects.

(k) 2-Acetylaminofluorene: Cancer.

(l) 4-Dimethylaminoazo-benzene: Cancer; skin effects; and respiratory tract irritation.

(m) N-Nitrosodimethylamine: Cancer; liver effects; and acute toxicity effects.

History: 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.35007 Signs.**

Rule 7. (1) An employer shall ensure that entrances to regulated areas are posted with signs bearing the following legend:

DANGER (CHEMICAL IDENTIFICATION) MAY CAUSE CANCER AUTHORIZED PERSONNEL ONLY
--

(2) The employer shall post signs at entrances to regulated areas containing operations covered in R 325.35003 (7). The signs shall bear the following legend:

DANGER (CHEMICAL IDENTIFICATION) MAY CAUSE CANCER WEAR AIR-SUPPLIED HOODS, IMPERVIOUS SUITS, AND PROTECTIVE EQUIPMENT IN THIS AREA AUTHORIZED PERSONNEL ONLY
--

(3) Prior to June 1, 2016, employers may use the following legend in lieu of that specified in subrule (1) of this rule:

CANCER-SUSPECT AGENT AUTHORIZED PERSONNEL ONLY
---

(4) Prior to June 1, 2016, employers may use the following legend in lieu of that specified in subrule (2) of this rule:

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CANCER-SUSPECT AGENT EXPOSED IN THIS AREA IMPERVIOUS SUIT INCLUDING GLOVES, BOOTS, AND AIR-SUPPLIED HOOD REQUIRED AT ALL TIMES AUTHORIZED PERSONNEL ONLY
---

(3) An employer shall ensure that appropriate signs and instructions are posted at the entrance to, and exit from, regulated areas, informing employees of the procedures that must be followed in entering and leaving a regulated area.

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.35008 Container labeling.**

Rule 8. An employer shall ensure that nothing shall appear on or near any required sign, label, or instruction that contradicts or detracts from the effect of any required warning, information, or instruction.

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.35009 Training and indoctrination.**

Rule 9. (1) An employer shall ensure that each authorized employee, before entering a regulated area and annually, receives training that includes, but is not limited to, all of the following:

- (a) The nature of the carcinogenic hazards of a carcinogen to include local and systemic toxicity.
- (b) The specific nature of the operation involving a carcinogen that could result in exposure.
- (c) The purpose for and application of the medical surveillance program, including, as appropriate, methods of self-examination.
- (d) The purpose for and application of decontamination practices and purposes.
- (e) The purpose for and significance of emergency practices and procedures.
- (f) The employee's specific role in emergency procedures.
- (g) Specific information to aid the employee in recognition and evaluation of conditions and situations which may result in the release of a carcinogen.
- (h) The purpose for and application of specific first aid procedures and practices.

(2) An employer shall ensure that specific emergency procedures are prescribed, and posted, and that employees are familiarized with emergency procedures terminology, and that the procedures are rehearsed.

(3) All materials relating to the program shall be provided upon request to the director of the department of licensing and regulatory affairs or his or her authorized representative.

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.35010 Rescinded.**

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.35011 Medical surveillance, examinations, and medical records.**

Rule 11. (1) An employer shall establish and implement, at no cost to employees, a medical surveillance program for employees considered for assignment to enter regulated areas.

(2) An employer shall ensure that a preassignment physical examination by a physician is provided before an employee is assigned to enter a regulated area. The examination shall include the personal history of the employee, family, and occupational background, including genetic and environmental factors.

(3) An employer shall provide periodic physical examinations, at least annually, for authorized employees after the preassignment examination.

(4) For all physical examinations, an employer shall ensure that the examining physician consider whether there exist conditions of increased risk, including reduced immunological competence, treatment with steroids or cytotoxic agents, pregnancy, or cigarette smoking.

(5) Employers of employees examined pursuant to this rule shall maintain complete and accurate records of all medical examinations. Records shall be maintained for the duration of the employee's employment.

(6) An employer shall ensure that records required by this rule be provided upon request in compliance with Occupational Health Standard Part 470, "Employee Medical Records and Trade Secrets," as referenced in R 325.35002a. The records shall also be provided, upon request, to the director of the department of licensing and regulatory affairs.

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(7) A physician who conducts a medical examination required by this rule shall furnish to the employer a statement of the employee's suitability for employment in the specific exposure.

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**MEDICAL SERVICES AND FIRST AID—GENERAL INDUSTRY**

**R 325.47201**

Source: 2001 AACS.

**ILLUMINATION**

**R 325.47801 Rescinded.**

History: 2001 AACS; 2013 MR 11, Eff. June 12, 2013.

**EXTINGUISHING SYSTEMS**

**R 325.48001**

Source: 2005 AACS.

**METHYLENEDIANILINE (MDA)**

**R 325.50051**

Source: 1993 AACS.

**R 325.50052**

Source: 1998-2000 AACS.

**R 325.50053**

Source: 1993 AACS.

**R 325.50054**

Source: 1998-2000 AACS.

**R 325.50055**

Source: 1993 AACS.

**R 325.50056**

Source: 1993 AACS.

**R 325.50057**

Source: 1993 AACS.

**R 325.50058**

Source: 1993 AACS.

**R 325.50059**

Source: 1993 AACS.

**R 325.50060**

Source: 1998-2000 AACS.

**R 325.50061**

Source: 1993 AACS.

**R 325.50062**

Source: 1993 AACS.

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- R 325.50063**  
Source: 1993 AACS.
- R 325.50064**  
Source: 1993 AACS.
- R 325.50065**  
Source: 1993 AACS.
- R 325.50066**  
Source: 1993 AACS.
- R 325.50067**  
Source: 1993 AACS.
- R 325.50068**  
Source: 1993 AACS.
- R 325.50069**  
Source: 1993 AACS.
- R 325.50070**  
Source: 1993 AACS.
- R 325.50071**  
Source: 1993 AACS.
- R 325.50072**  
Source: 1993 AACS.
- R 325.50073**  
Source: 1993 AACS.
- R 325.50074**  
Source: 1998-2000 AACS.
- R 325.50075**  
Source: 1998-2000 AACS.
- R 325.50076**  
Source: 1998-2000 AACS.

**1,3-BUTADIENE**

- R 325.50091**  
Source: 1997 AACS.
- R 325.50092**  
Source: 1998-2000 AACS.

**COKE OVEN EMISSIONS**

**R 325.50100 Scope and application.**

Rule 100. This rule applies to the control of employee exposure to coke oven emissions, except that this rule shall not apply to working conditions under which other federal and state agencies exercise statutory authority to prescribe or enforce standards affecting occupational safety and health.

History: 2013 MR 18, Eff. Sept. 25, 2013.

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**R 325.50101 Definitions; A to E.**

Rule 101. (1) "Authorized person" means a person specifically required by the employer to enter a regulated area or a person entering a regulated area as a designated representative of employees for the purpose of observing the monitoring and measuring procedures under R 325.50135.

(2) "Beehive oven" means a coke oven in which the products of carbonization other than coke are not recovered, but are released into the ambient air.

(3) "Coke oven" means a retort in which coke is produced by the destructive distillation or carbonization of coal.

(4) "Coke oven battery" means a structure containing a number of slot-type coke ovens.

(5) "Coke oven emissions" means the soluble fraction of total particulate matter present during the destructive distillation or carbonization of coal for the production of coke as determined by benzene extraction or an equivalent analytical method.

(6) "Director" means the director of the Michigan department of licensing and regulatory affairs or his or her authorized representative.

(7) "Emergency" means an occurrence, such as, but not limited to, equipment failure, that is likely to, or does, result in a massive release of coke oven emissions.

(8) "Existing coke oven battery" means a battery which is in operation or under construction on January 20, 1977, and which is not a rehabilitated coke oven battery.

History: 1979 AC; 1999 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50102 Definitions; G to S.**

Rule 102. (1) "Green push" means coke that, when removed from the oven, results in emissions due to the presence of incompletely coked coal.

(2) "Pipeline charging" means an apparatus used to introduce coal into an oven which uses a pipe or duct permanently mounted onto an oven and through which coal is charged.

(3) "Rehabilitated coke oven battery" means a battery that is rebuilt, overhauled, renovated, or restored from the pad up after January 20, 1977.

(4) "Sequential charging" means a procedure, usually automatically timed, by which a predetermined volume of coal in each larry car hopper is introduced into an oven so that not more than 2 hoppers commence or finish discharging simultaneously although, at some point, all hoppers are discharging simultaneously.

(5) "Stage charging" means a procedure by which a predetermined volume of coal in each larry car hopper is introduced into an oven so that not more than 2 hoppers are discharging simultaneously.

History: 1979 AC; 1999 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50102a MIOSHA standards by reference, appendices.**

Rule 102a. (1) The following Michigan occupational safety and health administration (MIOSHA) standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, MI, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, at the time of adoption of these rules, is 4 cents per page.

(a) General Industry Safety Part 33 "Personal Protective Equipment," R 408.13301 to R 408.13398.

(b) Occupational Health Standard Part 430 "Hazard Communication," R 325.77001 to R 325.77003.

(c) Occupational Health Standard Part 451 "Respiratory Protection," being R 325.60051 to R 325.60052.

(d) Occupational Health Standard Part 470 "Employee Medical Records and Trade Secrets," R 325.3451 to R 325.3476.

(2) The information contained in the appendices to these rules is not intended, by itself, to create any additional obligations not otherwise imposed or to detract from any existing obligation.

History: 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50103**

Source: 1979 AC.

**R 325.50104**

Source: 1979 AC.

**R 325.50105 Exposure monitoring and measurements; accuracy of methods; notifications to employees; corrective actions.**

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Rule 105. (1) An employer who has a place of employment where coke oven emissions are present shall monitor employees working in the regulated area to measure their exposure to coke oven emissions.

(2) An employer shall obtain measurements which are representative of each employee's exposure to coke oven emissions over an 8-hour period. All measurements shall determine exposure without regard to the use of respiratory protection.

(3) An employer shall collect full-shift, ~~(for not less than 7 continuous hours)~~, personal samples, or shall employ other equivalent monitoring procedures, including at least 1 sample during each shift for each battery and each job classification, including maintenance personnel, within the regulated areas.

(4) An employer shall repeat the monitoring and measurements required by this rule at least once every 3 months.

(5) If a production, process, or control change is made which may result in new or additional exposure to coke oven emissions, or whenever the employer has any other reason to suspect an increase in employee exposure, the employer shall repeat the monitoring and measurements required by this rule for those employees affected by such change or suspected increase.

(6) An employer shall use a method of monitoring and measurement which has an accuracy, ~~(with a confidence level of 95%)~~, of not less than plus or minus 35% for concentrations of coke oven emissions greater than, or equal to 150 ug/m<sup>3</sup>.

(7) An employer shall, within 15 working days after the receipt of the results of any monitoring performed under these rules, notify each affected employee of these results either individually in writing or by posting the results in an appropriate location that is accessible to employees.

(8) If exposure measurements indicate that the representative employee exposure exceeds the permissible exposure limit, the employer shall, in such notification, inform each employee of that fact and of the corrective action being taken to reduce exposure to or below the permissible exposure limit.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50106 Compliance programs.**

Rule 106. (1) An employer shall establish and implement a written program to reduce exposures to coke oven emissions solely by means of the engineering and work practice controls required in R 325.50107 to R 325.50116.

(2) The written program shall include, at least all of the following:

(a) A description of each coke oven operation by battery, including, work force and operating crew, coking time, operating procedures, and maintenance practices.

(b) Engineering plans and other studies used to determine the controls for the coke battery.

(c) A report of the technology considered in meeting the permissible exposure limit.

(d) A monitoring program in accordance with R 325.50105.

(e) A detailed schedule for the implementation of the engineering and work practice controls required in R 325.50110, R 325.50111, and R 325.50112.

(f) Other relevant information.

(3) If, after implementing all controls required by R 325.50110, R 325.50111, and R 325.50112, or after completion of a new or rehabilitated battery, the permissible exposure limit is still exceeded, an employer shall develop a detailed written program and schedule for the implementation of any additional engineering controls and work practices necessary to reduce exposure to or below the permissible exposure limit.

(4) A written plan for a compliance program shall be submitted, upon request, to the director and shall be available at the worksite for examination and copying by the director, the employee, and the authorized representative. The plan shall be revised and updated at least annually to reflect the current status of the program.

History: 1979 AC; 1987 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50106a Methods of compliance and training.**

Rule 106a. (1) An employer shall control employee exposure to coke oven emissions by the use of engineering controls, work practices and respiratory protection as described in R 325.50107.

(2) Training in compliance procedures. An employer shall incorporate all written procedures and schedules required in R 325.50106, R 325.50107, R 325.50108, R 325.50109, R 325.50110, R 325.50111, R 325.50112, R 325.50113, R 325.50114, R 325.50115, R 325.50116, and R 325.50120 in the information and training programs required under R 325.50128 and R 325.50129 and where appropriate, post in the regulated area.

History: 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50107 Priority of compliance methods; existing coke oven batteries.**

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Rule 107. (1) An employer shall institute the engineering and work practice controls listed in R 325.50110, R 325.50111, and R 325.50112 for existing coke oven batteries at the earliest possible time, but not later than January 20, 1980, except to the extent that the employer can establish that such controls are not feasible.

(2) In determining the earliest possible time for institution of engineering and work practice controls, the requirement, effective August 27, 1971, to implement feasible administrative or engineering controls to reduce exposures to coal tar pitch volatiles, shall be considered. Wherever the engineering and work practice controls which can be instituted are not sufficient to reduce employee exposures to or below the permissible exposure limit, an employer shall nonetheless use them to reduce exposures to the lowest level achievable by these controls and shall supplement them by the use of respiratory protection which complies with the requirements of R 325.50117.

(3) The engineering and work practice controls required under R 325.50110, R 325.50111, and R 325.50112 are minimum requirements generally applicable to all existing coke oven batteries.

(4) If, after implementing all controls required by R 325.50110, R 325.50111, and R 325.50112, or after January 20, 1980, whichever is sooner, employee exposures still exceed the permissible exposure limit, an employer shall implement any other engineering and work practice controls necessary to reduce exposure to or below the permissible exposure limit, except to the extent that the employer can establish that such controls are not feasible.

(5) Where the engineering and work practice controls which can be instituted are not sufficient to reduce employee exposures to or below the permissible exposure limit, an employer shall nonetheless use them to reduce exposures to the lowest level achievable by these controls and shall supplement them by use of respiratory protection which complies with the requirements of R 325.50117 to R 325.50119.

History: 1979 AC; 1987 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50108 Methods of compliance; new or rehabilitated coke oven batteries.**

Rule 108. (1) An employer shall institute the best available engineering and work practice controls on all new or rehabilitated coke oven batteries to reduce and maintain employee exposure at or below the permissible exposure limit, except to the extent that the employer can establish that such controls are not feasible.

(2) If, after implementing the best available engineering and work practice controls required by these rules, employee exposures still exceed the permissible exposure limit, an employer shall implement any other engineering and work practice controls necessary to reduce exposure to or below the permissible exposure limit, except to the extent that the employer can establish that such controls are not feasible.

(3) If the engineering and work practice controls which can be instituted are not sufficient to reduce employee exposures to or below the permissible exposure limit, an employer shall nonetheless use them to reduce exposures to the lowest level achievable by these controls and shall supplement them by the use of respiratory protection which complies with the requirements of R 325.50117 to R 325.50119.

History: 1979 AC; 1987 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50109 Methods of compliance; beehive ovens.**

Rule 109. (1) An employer shall institute engineering and work practice controls on beehive ovens at the earliest possible time to reduce and maintain employee exposures at or below the permissible exposure limit, except to the extent that the employer can establish that such controls are not feasible.

(2) If, after implementing all engineering and work practice controls required by subrule (1) of this rule, employee exposures still exceed the permissible exposure limit, an employer shall implement any other engineering and work practice controls necessary to reduce exposures to or below the permissible exposure limit, except to the extent that the employer can establish that such controls are not feasible.

(3) If the engineering and work practice controls which can be instituted are not sufficient to reduce employee exposures to or below the permissible exposure limit, an employer shall nonetheless use them to reduce exposure to the lowest level achievable by these controls and shall supplement them by the use of respiratory protection which complies with the requirements of R 325.50117 to R 325.50119.

(4) In determining the earliest possible time for institution of engineering and work practice controls, the requirement, effective August 27, 1971, to implement feasible administrative or engineering controls to reduce exposures to coal tar pitch volatiles, shall be considered.

History: 1979 AC; 1987 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50110 Existing coke oven battery; engineering controls during charging operations.**

Rule 110. An employer shall equip and operate existing coke oven batteries with all of the following engineering controls to control coke oven emissions during charging operations:

(a) One of the following methods of charging shall be used:

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- (i) Stage charging as described in R 408.50113(2).
- (ii) Sequential charging as described in R 408.50113(2), except that R 408.50113(2)(b)(iv) does not apply to sequential charging.
- (iii) Pipeline charging or other forms of enclosed charging in accordance with this rule (1), except subdivisions (b), (d), (e), (f), and (h) of this rule, do not apply.
- (b) Drafting from 2 or more points in the oven being charged, through the use of double collector mains or a fixed or moveable jumper pipe system to another oven, to effectively remove the gases from the oven to the collector mains.
- (c) Aspiration systems designed and operated to provide sufficient negative pressure and flow volume to effectively move the gases evolved during charging into the collector mains, including sufficient steam pressure, and steam jets of sufficient diameter.
- (d) Mechanical volumetric controls on each larry car hopper to provide the proper amount of coal to be charged through each charging hole so that the tunnel head will be sufficient to permit the gases to move from the oven into the collector mains.
- (e) Devices to facilitate the rapid and continuous flow of coal into the oven being charged, such as stainless steel liners, coal vibrators, or pneumatic shells.
- (f) Individually operated larry car drop sleeves and slide gates or equivalent charge systems designed and maintained so that the gases are effectively removed from the oven into the collector mains.
- (g) Mechanized gooseneck and standpipe cleaners.
- (h) Air seals on the pusher machine leveler bars to control air infiltration during charging.
- (i) Roof carbon cutters or a compressed air system or both on the pusher machine rams to remove roof carbon.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50111 Existing coke oven battery; engineering controls during coking operations.**

Rule 111. The employer shall equip and operate existing coke oven batteries with all of the following engineering controls to control coke oven emissions during coking operations:

- (a) A pressure control system on each battery to obtain uniform collector main pressure.
- (b) Ready access to door repair facilities to facilitate the prompt and efficient repair of doors, door sealing edges, and all door parts.
- (c) An adequate number of spare doors available for replacement purposes.
- (d) Chuck door gaskets to control chuck door emissions until such door is repaired or replaced.
- (e) Heat shields on door machines.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50112**

Source: 1979 AC.

**R 325.50113**

Source: 1979 AC.

**R 325.50114 Work practice controls; coking.**

Rule 114. An employer shall operate existing coke oven batteries pursuant to a detailed written procedure established and implemented for the control of coke oven emissions during coking consisting of at least all of the following elements:

- (a) Checking oven back pressure controls to maintain uniform pressure conditions in the collecting main.
- (b) Repair, replacement, and adjustment of oven doors and chuck doors, and replacement of door jambs to provide a continuous metal-to-metal fit.
- (c) Cleaning of oven doors, chuck doors, and door jambs after each coking cycle to provide an effective seal.
- (d) An inspection system and corrective action program to control door emissions to the maximum extent possible.
- (e) Luting of doors that are sealed by luting after each coking cycle and reluting, replacing, or adjusting as necessary to control leakage.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50115 Work practice controls; pushing.**

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Rule 115. An employer shall control coke oven emissions during pushing operations by quenching coke and coal spillage as soon as practicable and not shoveling them into a heated oven, and by a detailed written procedure for each battery established and implemented for the control of emissions during pushing consisting of the following elements:

- (a) Dampening off the ovens and removal of charging hole lids to effectively control coke oven emissions during the push.
- (b) Heating the coal charge uniformly for a sufficient period to obtain proper coking, including the prevention of green pushes.
- (c) Preventing green pushes to the maximum extent possible.
- (d) Inspecting, adjust, and correct heating flue temperatures and defective flues at least once weekly and after any green push, to prevent green pushes.
- (e) Cleaning of heating flues and related equipment at least once weekly and after any green push to prevent green pushes.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50116 Work practice controls; maintenance and repair.**

Rule 116. An employer shall operate existing coke oven batteries pursuant to a detailed written procedure of maintenance and repair established and implemented for the effective control of coke oven emissions consisting of the following elements:

- (a) Regular inspection of all controls, including goosenecks, standpipes, standpipe caps, charger hole lids and castings; regular inspection of jumper standings, jumper pipes, and air seals for cracks, misalignment, or other defects; and prompt implementation of the necessary repairs, as soon as possible.
- (b) Maintaining the regulated area in a neat, orderly condition free of coal and coke spillage and debris.
- (c) Regular inspection of the damper system, aspiration system, and collector main for cracks or leakage, and prompt implementation of the necessary repairs.
- (d) Regular inspection of the heating system and prompt implementation of the necessary repairs.
- (e) Prevention of miscellaneous fugitive topside emissions.
- (f) Regular inspection and patching of oven brickwork.
- (g) Maintenance of battery equipment and controls in good working order.
- (h) Maintenance and repair of coke oven doors, chuck doors, door jambs, and seals.
- (i) Installation of chuck door gaskets prior to the next coking cycle.
- (j) Instituting and completing repairs as soon as possible, including temporary repair measures instituted and completed where necessary, which include, but are not limited to, the requirements of subdivisions (e) and (i) of this rule.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50117 Respiratory protection.**

Rule 117. (1) For employees who use respirators required by these rules, an employer shall provide each employee an appropriate respirator that complies with the requirements of this rule. Respirators must be used during all of the following:

- (a) Periods necessary to install or implement feasible engineering and work practice controls.
- (b) Work situations where feasible engineering and work practice controls are not yet sufficient to reduce exposure to or below the permissible exposure limit.
- (c) Work operations such as maintenance and repair activity in which engineering and work practice controls are not technologically feasible.
- (d) Emergencies.

(2) An employer shall implement a respiratory protection program in accordance with Occupational Health Standard Part 451, "Respiratory Protection," rules § 1910.134(b) through (d) (except (d)(1)(iii)), and (f) through (m), as referenced in R 325.50102a, which covers each employee required by this section to use a respirator.

(3) An employer shall select and provide to employees, the appropriate respirators specified in Occupational Health Standard Part 451, "Respiratory Protection," as referenced in R 325.50102a, subrule § 1910.134(d)(3)(i)(A); however, an employer may use a filtering facepiece respirator only when it functions as a filter respirator for coke oven emissions particulates.

History: 1979 AC; 1987 AACS; 1999 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50118 Protective clothing and equipment; provision and use.**

Rule 118. An employer shall provide, and ensure the use of, appropriate protective clothing and equipment, such as, but not limited to, all of the following:

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- (a) Flame-resistant jacket and pants.
  - (b) Flame-resistant gloves.
  - (c) Devices that insulate footwear from hot surfaces.
  - (d) Face shields or vented goggles that comply with General Industry Safety Standard Part 33 “Personal Protective Equipment,” as referenced in R 325.50102a.
  - (e) Safety shoes that comply with General Industry Safety Standard Part 33 “Personal Protective Equipment,” as referenced in R 325.50102a.
  - (f) Protective helmets that comply with General Industry Safety Standard Part 33 “Personal Protective Equipment,” as referenced in R 325.50102a.
- History: 1979 AC; 1999 AACCS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50119 Protective clothing and equipment; cleaning and replacement.**

Rule 119. Where protective clothing is required by these rules, an employer shall do all of the following:

- (a) Provide the protective clothing required by R 325.50118(a) and (b) in a clean and dry condition at least once weekly.
- (b) Clean, launder, or dispose of protective clothing required by R 325.50118(a) and (b).
- (c) Repair or replace the protective clothing and equipment as needed to maintain their effectiveness.
- (d) Ensure that all protective clothing is removed at the completion of a work shift and only in change rooms required by these rules.
- (e) Ensure that contaminated protective clothing which is to be cleaned, laundered, or disposed of, is placed in a closable container in the change room.
- (f) Inform any person who cleans or launders protective clothing required by this rule of the potentially harmful effects of exposure to coke oven emissions.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50120**

**Source:** 1979 AC.

**R 325.50121 Hygiene facilities and practices; change rooms, showers, and lavatories.**

Rule 121.(1) An employer shall provide clean change rooms equipped with storage facilities for street clothes and separate storage facilities for protective clothing and equipment whenever employees are required to wear protective clothing and equipment in accordance with R 325.50118.

- (2) An employer shall ensure that employees working in a regulated area shower at the end of the work shift.
- (3) An employer shall provide shower facilities in accordance with R 325.47416 of Occupational Health Standard Part 474 “Sanitation,” as referenced in R 325.50102a.
- (4) An employer shall ensure that employees working in the regulated area wash their hands and face prior to eating.
- (5) An employer shall provide lavatory facilities in accordance with Occupational Health Standard Part 474 “Sanitation,” as referenced in R 325.50102a.
- (6) An employer shall provide lunchroom facilities which have a temperature controlled, positive-pressure, filtered air supply, and which are readily accessible to employees working in the regulated area.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50122**

**Source:** 1979 AC.

**R 325.50123 Medical surveillance; general requirements.**

Rule 123. (1) An employer shall institute a medical surveillance program for all employees who are employed in a regulated area for not less than 30 days per year.

- (2) This program shall provide that medical examinations and procedures in accordance with subrule(1) of this rule be made available, at the employer’s cost, to each employee during scheduled working hours or at other times agreeable to both the employee and the employer.
- (3) An employer shall inform an employee who refuses a required medical examination of the possible health consequences of such refusal and shall obtain a signed statement from the employee indicating that the employee understands the risk involved in the refusal to be examined.
- (4) An employer shall ensure that all medical examinations and procedures are performed by, or under the supervision of, a licensed physician.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

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**R 325.50124 Medical surveillance; initial examinations.**

Rule 124. At the time of initial assignment to a regulated area or upon the institution of the medical surveillance program, an employer shall provide a medical examination for employees covered under R 325.50123(1) that includes at least all of the following elements:

- (a) A work history and medical history that includes smoking history and the presence and degree of respiratory symptoms, such as breathlessness, cough, sputum production, and wheezing.
- (b) A standard posterior-anterior chest x-ray.
- (c) Pulmonary function tests, including forced vital capacity (FVC) and forced expiratory volume at 1 second (FEV 1.0). The employer shall record the type of equipment used to perform the tests.
- (d) Weight.
- (e) A skin examination.
- (f) Urinalysis for sugar, albumin, and hematuria.
- (g) A urinary cytology examination.

History: 1979 AC; 1999 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50125 Medical surveillance; periodic examinations.**

Rule 125. (1) An employer shall provide the examinations specified in R 325.50124(a) to (f) at least annually for employees covered under R 325.50123(1).

(2) An employer shall provide the examinations specified in R 325.50124 (a) to (g) at least annually for employees who are 45 years of age or older or who have 5 or more years of employment in the regulated area.

(3) If an employee who is 45 years of age or older, or who has 5 or more years of employment in the regulated area, transfers or is transferred from employment in a regulated area, then the employer shall continue to provide the examinations specified in R 325.50124(a) to (g) annually as long as the employee is employed by the same employer or a successor employer.

(4) If an employee has not taken the examinations specified in subrules (1) to (3) of this rule within the 6 months preceding the termination of employment, then the employer shall provide the examinations to the employee upon termination of employment.

History: 1979 AC; 1999 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50126**

Source: 1979 AC.

**R 325.50127**

Source: 1979 AC.

**R 325.50128 Employee information and training.**

Rule 128. (1) An employer shall train each employee who is employed in a regulated area in accordance with the requirements of these rules. The employer shall institute a training program and ensure employee participation in the program.

(2) The training program shall be provided as of January 27, 1977 for employees who are employed in the regulated area at that time or at the time of initial assignment to a regulated area.

(3) The training program shall be provided at least annually for all employees who are employed in the regulated area, except that training regarding the occupational safety and health hazards associated with exposure to coke oven emissions and the purpose, proper use, and limitations of respiratory protective devices shall be provided at least quarterly for the first year after the initiation of the training program.

(4) The training program shall include informing each employee of all of the following:

- (a) The information contained in the substance information sheet for coke oven emissions. (Appendix A);
- (b) The purpose, proper use, and limitations of respiratory protective devices required in accordance with R 325.50117 to R 325.50119.
- (c) The purpose for and a description of the medical surveillance program required by R 325.50123 to R 325.50127, including information on the occupational safety and health hazards associated with exposure to coke oven emissions.
- (d) A review of all written procedures and schedules required under R 325.50106 to R 325.50116.
- (e) A review of these rules.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

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**R 325.50129 Access to training materials.**

Rule 129. (1) An employer shall make a copy of these rules, and its appendixes, the substance information sheet, and the air monitoring and medical surveillance guide for coke oven emissions, readily available to all persons employed in the regulated area.

(2) An employer shall provide, upon request, all materials relating to the employee information and training program to the director.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**HAZARD COMMUNICATION**

**R 325.50129a Communication of hazards.**

Rule 129a. (1) An employer shall include coke oven emissions in the program established to comply with the Occupational Health Standard Part 430 "Hazard Communication," as referenced in R 325.51401a.

(2) An employer shall ensure that each employee has access to labels on containers of chemicals and substances associated with coke oven processes and to safety data sheets, and is trained in accordance with R 325.50128 and the provisions of Occupational Health Standard Part 430 "Hazard Communication," as referenced in R 325.50102a.

(3) An employer shall ensure that, at least, the hazard of cancer is addressed.

History: 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50130 Precautionary signs and labels.**

Rule 130. (1) An employer shall post signs in the regulated area bearing the legend:

DANGER COKE OVEN EMISSIONS MAY CAUSE CANCER DO NOT EAT, DRINK OR SMOKE WEAR RESPIRATORY PROTECTION IN THIS AREA AUTHORIZED PERSONNEL ONLY
--

(2) An employer shall post signs in the areas where the permissible exposure limit is exceeded bearing the legend:

WEAR RESPIRATORY PROTECTION IN THIS AREA
--

(3) An employer shall ensure that a statement does not appear on or near any sign required by these rules which contradicts or detracts from the effects of the required sign.

(4) An employer shall ensure that signs required by these rules are illuminated and cleaned as necessary so that the legend is readily visible.

(5) Prior to June 1, 2016, employers may use the following legend in lieu of that specified in subrule (1) of this rule:

DANGER CANCER HAZARD AUTHORIZED PERSONNEL ONLY NO SMOKING OR EATING
--

(6) Prior to June 1, 2016, employers may use the following legend in lieu of that specified in subrule (2) of this rule:

DANGER RESPIRATOR REQUIRED
-------------------------------

(7) An employer shall ensure that labels of containers of contaminated protective clothing and equipment include the following information:

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CONTAMINATED WITH COKE EMISSIONS MAY CAUSE CANCER DO NOT REMOVE DUST BY BLOWING OR SHAKING
--

(8) Prior to June 1, 2015, employers may include the following information on contaminated protective clothing and equipment in lieu of the labeling requirements in subrule (7) of this rule:

CAUTION CLOTHING CONTAMINATED WITH COKE EMISSIONS DO NOT REMOVE DUST BY BLOWING OR SHAKING
--

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50131 Recordkeeping, exposure measurements.**

Rule 131.(1) An employer shall establish and maintain an accurate record of all measurements taken to monitor employee exposure to coke oven emissions required in R 325.50105.

(2) The record shall include all of the following:

- (a) Name, social security number, and job classification of the employees monitored.
  - (b) The date or dates, number, duration, and results of each of the samples taken, including a description of the sampling procedure used to determine representative employee exposure where applicable.
  - (c) The type of respiratory protective devices worn, if any.
  - (d) A description of the sampling and analytical methods used and evidence of their accuracy.
  - (e) The environmental variables that could affect the measurement of employee exposure.
- (3) An employer shall maintain this record for not less than 40 years or for the duration of employment plus 20 years, whichever period is longer.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50132 Medical records.**

Rule 132. (1) An employer shall establish and maintain an accurate record for each employee subject to medical surveillance as required by R 325.50123 to R 325.50137.

(2) The record shall include all of the following:

- (a) The name, social security number, and description of duties of the employee.
  - (b) A copy of the physician's written opinion.
  - (c) The signed statement of any refusal to take a medical examination under R 325.50123(3).
  - (d) Any employee medical complaints related to exposure to coke oven emissions.
- (3) An employer shall keep, or ensure that the examining physician keeps, all of the following medical records:
- (a) A copy of the medical examination results, including medical and work history required under R 325.50124.
  - (b) A description of the laboratory procedures used and a copy of any standards or guidelines used to interpret the test results.
  - (c) The initial X-ray film.
  - (d) The X-ray films for the most recent 5 years.
  - (e) Any X-ray film with a demonstrated abnormality and all subsequent films.
  - (f) The initial cytologic examination slide and written description.
  - (g) The cytologic examination slides and written descriptions for the most recent 10 years.
  - (h) Any cytologic examination slides with demonstrated atypia, if such atypia persists for 3 years, and all subsequent slides and written descriptions.
- (3) An employer shall maintain medical records required under this rule for not less than 40 years, or for the duration of employment plus 20 years, whichever period is longer.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50133 Availability of records.**

Rule 133. (1) An employer shall make available upon request all records required to be maintained by R 325.50131 to R 325.5034 to the director for examination and copying.

(2) An employer shall make available, upon request, records of employee exposure measurements required by R 325.50131 for inspection and copying to affected employees and their designated representatives.

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(3) An employer shall make available upon request employee medical records required to be maintained by R 325.50132 to a physician designated by the affected employee or former employee.

(4) An employer shall make available upon request records of employee exposure measurements required by R 325.50131 for inspection and copying to former employees and their designated representatives which indicate the former employees' own exposures.

(5) Employee exposure measurement records and employee medical records required by these rules shall be provided upon request to employees, designated representatives, and the director in accordance with Occupational Health Standard Part 470 "Employee Medical Records and Trade Secrets," as referenced in R 325.50102a.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50134 Retention and transfer of records.**

Rule 134. (1) If an employer ceases to do business, the successor employer shall receive and retain all records required to be maintained by R 325.50131 to R 325.50134.

(2) An employer shall comply with any additional requirements involving the transfer of records set forth in Occupational Health Standard Part 470 "Employee Medical Records and Trade Secrets," as referenced in R 325.50102a.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50135 Observations of monitoring.**

Rule 135. (1) An employer shall provide affected employees or their representatives an opportunity to observe any measuring or monitoring of employee exposure to coke oven emissions conducted pursuant to R 325.50105.

(2) If observation of the measuring or monitoring of employee exposure to coke oven emissions requires entry into an area where the use of protective clothing or equipment is required, an employer shall provide the observer with, and assure the use of, such equipment and shall require the observer to comply with all other applicable safety and health procedures.

(3) Without interfering with the measurement, an observer shall be entitled to all of the following:

(a) An explanation of the measurement procedures.

(b) Observe all steps related to the measurement of coke oven emissions performed at the place of exposure.

(c) Record the results obtained.

History: 1979 AC; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50136 Rescinded.**

History: 1979 AC; 1999 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.50151**

Source: 1998-2000 AACS.

**OCCUPATIONAL HEALTH STANDARDS**

**PART 315. CHROMIUM (VI) IN GENERAL INDUSTRY**

**R 325.50141**

Source: 2006 AACS.

**R 325.50142**

Source: 2010 AACS.

**R 325.50143**

Source: 2010 AACS.

**PART 501. AGRICULTURAL OPERATIONS**

**R 325.50171**

Source: 2002 AACS.

**OCCUPATIONAL HEALTH STANDARDS**

**PART 2. TUNNELS, SHAFTS, CAISSONS, AND COFFERDAMS**

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**R 325.50201**  
Source: 1997 AACS.

**R 325.50202**  
Source: 1997 AACS.

**R 325.50203**  
Source: 1997 AACS.

**R 325.50204**  
Source: 1997 AACS.

**R 325.50205**  
Source: 1997 AACS.

**R 325.50206**  
Source: 1997 AACS.

**R 325.50207**  
Source: 1997 AACS.

**R 325.50208**  
Source: 1997 AACS.

**R 325.50209**  
Source: 1997 AACS.

**R 325.50210**  
Source: 1997 AACS.

**R 325.50211**  
Source: 1997 AACS.

**R 325.50212**  
Source: 1997 AACS.

**R 325.50213**  
Source: 1997 AACS.

**R 325.50214**  
Source: 1997 AACS.

**R 325.50215**  
Source: 1997 AACS.

**R 325.50216**  
Source: 1997 AACS.

**R 325.50217**  
Source: 1997 AACS.

**R 325.50218**  
Source: 1997 AACS.

**R 325.50219**  
Source: 1997 AACS.

**R 325.50220**  
Source: 1997 AACS.

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**R 325.50221**  
Source: 1997 AACS.

**R 325.50222**  
Source: 1997 AACS.

**R 325.50223**  
Source: 1997 AACS.

**R 325.50224**  
Source: 1997 AACS.

**R 325.50225**  
Source: 1997 AACS.

**R 325.50226**  
Source: 1997 AACS.

**R 325.50227**  
Source: 1997 AACS.

**R 325.50228**  
Source: 1997 AACS.

**R 325.50229**  
Source: 1997 AACS.

**R 325.50230**  
Source: 1997 AACS.

**R 325.50231**  
Source: 1997 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**DIRECTOR'S OFFICE**

**OCCUPATIONAL HEALTH STANDARDS--ABRASIVE BLASTING**

**R 325.50251**  
Source: 2001 AACS.

**R 325.50252**  
Source: 2001 AACS.

**R 325.50253**  
Source: 2001 AACS.

**R 325.50254**  
Source: 2001 AACS.

**R 325.50255**  
Source: 2001 AACS.

**R 325.50256**  
Source: 2001 AACS.

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**R 325.50257**

Source: 2001 AACs.

**R 325.50258**

Source: 2001 AACs.

**DIVING OPERATIONS**

**R 325.50301 Scope.**

Rule 301. This part pertains to the safe use and maintenance of equipment and procedures of the occupation of diving and the related support operations as used in general industry and construction operations. This part does not apply to a diving operation performed solely for recreational instruction purposes using open-circuit compressed-air SCUBA and conducted within the no-decompression limits.

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50302 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

R 325.50303 Adoption by reference of federal standard.

Rule 303. (1) The provisions of federal occupational safety and health administration regulations on Commercial Diving Operations 1910 Subpart T promulgated by the United States department of labor and codified at 29 C.F.R. §1910.401 to 1910.440 including appendices A through C are adopted by reference in these rules. As used in these rules:

(a)"Area Director," as used in 29 C.F.R. §1910.401(b)(1) and (b)(2), means director of the Michigan occupational safety and health administration (MIOSHA).

(b)"Assistant Secretary," as used in 29 C.F.R. §1910.440(b)(1), means director of the department of licensing and regulatory affairs.

(c)"§1910.101," referenced in 29 C.F.R. §1910.430(e)(1), means general industry safety standard Part 69 Compressed Gases: Acetylene, Hydrogen, Oxygen, and Nitrous Oxide, R 408.16902, which adopts the provisions of 29 C.F.R. §1910.101.

(d)"§1910.109," referenced in 29 C.F.R. §1910.422(h)(1), means general industry safety standard Part 55 Explosives and Blasting Agents, R 408.15501, which adopts the provisions of 29 CFR §1910.109.

(e)"§1910.169," referenced in 29 C.F.R. §1910.430(e)(1), means general industry safety standard Part 93 Air Receivers, R 408.19301, which adopts the provisions of 29 CFR §1910.169.

(f)"§1910.1020," referenced in 29 C.F.R. §1910.440(b)(4), means occupational health standard Part 470 Employee Medical Records and Trade Secrets, R 325.3451 to R 325.3476.

(g)"§1926.912," referenced in 29 C.F.R. §1910.422(h)(1), means construction safety standard Part 27 Blasting and Use of Explosives, R 408.42701 to R 408.42799.

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50304 Availability of documents.**

Rule 304. (1) The federal regulation adopted by reference in these rules is available without cost as of the time of adoption of these rules from the United States Department of Labor, OSHA, 315 West Allegan, Room 315, Lansing, Michigan 48933, or via the internet at website: [www.osha.gov](http://www.osha.gov), or from the Michigan Department of Licensing and Regulatory Affairs, MIOASHA Standards Section, P.O. Box 30643, Lansing, Michigan 48909-8143.

(2) The following Michigan occupational safety and health standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Licensing and Regulatory Affairs, MIOASHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

(a) Construction safety standard part 27 "Blasting and Use of Explosives," R 408.42701 to R 408.42799.

(b) General industry safety standard part 55 "Explosives and Blasting Agents," R 408.15501.

(c) General industry safety standard part 69 "Compressed Gases: Acetylene, Hydrogen, Oxygen, and Nitrous Oxide," R 408.16902.

(d) General industry safety standard part 93 "Air Receivers," R 408.19301.

(e) Occupational health standard part 470 "Employee Medical Records and Trade Secrets," R 325.3451 to R 325.3476.

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

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**R 325.50305 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50306 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50307 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50308 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50309 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50310 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50311 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50312 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50313 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50314 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50315 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50316 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50317 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50318 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50319 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50320 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50321 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50322 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50323 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

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**R 325.50324 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50325 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50326 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50327 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50328 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50329 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50330 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50331 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50332 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50333 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50334 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50335 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50336 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50337 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50338 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50339 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50340 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50341 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50342 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

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**R 325.50343 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50344 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50345 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50346 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50347 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**R 325.50348 Rescinded.**

History: 1979 AC; 2013 MR 7, Eff. April 19, 2013.

**ILLUMINATION**

**R 325.50902**

Source: 2001 AACS.

**R 325.51004**

Source: 2001 AACS.

**AIR CONTAMINANTS**

**R 325.51101 Scope; applicability; replacement of O.H. rules.**

Rule 1. (1) These rules do not apply to the following types of employment:

- (a) Agriculture.
- (b) Domestic.
- (c) Mining.
- (d) Construction.

Exposure to air contaminants in construction work is covered by occupational health standard part 601 "Air Contaminants for Construction," R 325.60151 to R 325.60161.

(2) These rules replace O.H. rules 2101, 2102, 2103, and 2104.

History: 1990 AACS; 2013 MR 6, Eff. March 20, 2013.

**R 325.51101a Availability of referenced standards.**

Rule 1a. The following Michigan occupational safety and health standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

- (a) Occupational health standard part 302 "Vinyl Chloride," R 325.51401 to R 325.51414.
- (b) Occupational health standard part 303 "Methylenedianiline," R 325.50051 to R 325.50076.
- (c) Occupational health standard part 304 "Ethylene oxide," R 325.51151 to R 325.51177.
- (d) Occupational health standard part 305 "Asbestos for General Industry," R 325.51311 to R 325.51312.
- (e) Occupational health standard part 306 "Formaldehyde," R 325.51451 to R 325.51477.
- (f) Occupational health standard part 307 "Acrylonitrile," R 325.51501 to R 325.51527.
- (g) Occupational health standard part 308 "Inorganic Arsenic," R 325.51601 to R 325.51628.
- (h) Occupational health standard part 309 "Cadmium," R 325.51851 to R 325.51886.
- (i) Occupational health standard part 310 "Lead," R 325.51901 to R 325.51958.
- (j) Occupational health standard part 311 "Benzene," R 325.77101 to R 325.77115.
- (k) Occupational health standard part 312 "1,3-Butadiene," R 325.50091 to R 325.50092.

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- (l) Occupational health standard part 313 “Methylene Chloride,” R 325.51651 to R 325.51652.
- (m) Occupational health standard part 314 “Coke Oven Emissions,” R 325.50101 to R 325.50136.
- (n) Occupational health standard part 315 “Chromium (VI) in General Industry,” R 325.50141 to R 325.50143.
- (o) Occupational health standard part 350 “Carcinogens,” R 325.35001 to R 325.35011.
- (p) Occupational health standard part 451 “Respiratory Protection,” R 325.60051 to R 325.60052.
- (q) Occupational health standard part 601 “Air Contaminants for Construction,” R 325.60151 to R 325.60161.  
History: 2013 MR 6, Eff. March 20, 2013.

**R 325.51103**  
Source: 2001 AACS.

**R 325.51104**  
Source: 2001 AACS.

**R 325.51105 Methods of compliance.**

Rule 5. To achieve compliance with the provisions of R 325.51103 and R 325.51104, administrative or engineering controls shall first be determined and implemented when feasible. If such controls are not feasible to achieve full compliance, then personal protective equipment or any other protective measures shall be used to keep the employee’s exposure to air contaminants within the exposure limits prescribed in these rules. Any equipment and technical measures used for this purpose shall be approved for each particular use by a competent industrial hygienist or other technically qualified person. When a respirator is used, its use shall comply with the provisions of occupational health standard part 451 “Respiratory Protection,” R 325.60051 to R 325.60052.

History: 1990 AACS; 2001 AACS; 2013 MR 6, Eff. March 20, 2013.

**R 325.51106**  
Source: 2001 AACS.

**R 325.51107**  
Source: 1990 AACS.

**R 325.51108**  
History: 1990 AACS; 2001 AACS; 2013 MR 6, Eff. March 20, 2013.

**PART 511. TEMPORARY LABOR CAMPS**

**R 325.51131**  
Source: 2008 AACS.

**R 325.51132**  
Source: 2008 AACS.

**R 325.51133**  
Source: 2008 AACS.

**R 325.51134**  
Source: 2008 AACS.

**R 325.51135**  
Source: 2008 AACS.

**R 325.51136**  
Source: 2008 AACS.

**R 325.51137**  
Source: 2008 AACS.

**R 325.51138**  
Source: 2008 AACS.

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**R 325.51139 Construction and operation of kitchens, dining halls, and feeding facilities.**

Rule 9. (1) In all camps where central dining or multiple family feeding operations are permitted or provided, the food handling facilities shall comply with the requirements of the United States Health and Human Services, Food and Drug Administration, Food Code, 2005 Edition. A copy of the Food Code may be obtained in either of the following ways:

(a) At no cost from the United States Health and Human Services, Food and Drug Administration, via the website: [www.fda.gov](http://www.fda.gov).

(b) From the United States Department of Commerce, National Technical Information Service, 6301 Shawnee Road, Alexandria, Virginia, 22312, USA, Phone: 1-888-584-8332 or via the website: [www.ntis.gov/](http://www.ntis.gov/), at a cost of \$59.00 at the time of adoption of these rules.

(2) The standards adopted in subrule (1) of this rule are also available for inspection at the Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143.

(3) Copies of the standard adopted in subrule (1) of this rule may be obtained from the publisher or may also be obtained from the Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143, at the cost charged in this rule, plus \$20.00 for shipping and handling.

(4) A properly constructed kitchen and dining hall adequate in size, separate from the sleeping quarters of any of the workers or their families, shall be provided in connection with all food handling facilities. There shall be no direct opening from living or sleeping quarters into a kitchen or dining hall.

(5) No person with any communicable disease shall be employed or permitted to work in the preparation, cooking, serving, or other handling of food, foodstuffs, or materials used therein, in any kitchen or dining room operated in connection with a camp or regularly used by persons living in a camp.

History: 2008 AACCS; 2013 MR 7, Eff. April 12, 2013.

**R 325.51140**

Source: 2008 AACCS.

**R 325.51141**

Source: 2008 AACCS.

**R 325.51142**

Source: 2008 AACCS.

**R 325.51143 Rescinded.**

History: 2008 AACCS; 2013 MR 7, Eff. April 12, 2013.

**Rule 4301**

Source: 2008 AACCS.

**ETHYLENE OXIDE**

**R 325.51151**

Source: 1993 AACCS.

**R 325.51152**

Source: 1998-2000 AACCS.

**R 325.51153**

Source: 1993 AACCS.

**R 325.51154**

Source: 1993 AACCS.

**R 325.51155**

Source: 1993 AACCS.

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**R 325.51156**  
Source: 1993 AACS.

**R 325.51157**  
Source: 1988 AACS.

**R 325.51158**  
Source: 1988 AACS.

**R 325.51159**  
Source: 1993 AACS.

**R 325.51160**  
Source: 1988 AACS.

**R 325.51161**  
Source: 1993 AACS.

**R 325.51162**  
Source: 1998-2000 AACS.

**R 325.51163**  
Source: 1998-2000 AACS.

**R 325.51164**  
Source: 1988 AACS.

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**R 325.51170**  
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**R 325.51171**  
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**R 325.51172**  
Source: 1993 AACS.

**R 325.51173**  
Source: 1993 AACS.

**R 325.51174**  
Source: 1993 AACS.

**R 325.51175**  
Source: 1988 AACS.

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**R 325.51176**

Source: 1988 AACCS.

**R 325.51177**

Source: 1998-2000 AACCS.

**ASBESTOS STANDARDS FOR CONSTRUCTION**

**R 325.51301 Scope and application.**

Rule 1. (1) These rules apply to all construction work as defined by the Michigan Occupational Safety and Health Act (MIOSHA), 1974 PA 154, MCL 408.1001 to 408.1094. Construction work includes, but is not limited to, all of the following:

- (a) Demolition or salvage of structures where asbestos is present.
- (b) Removal or encapsulation of materials containing asbestos.
- (c) Construction, alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof that contain asbestos.
- (d) Installation of products containing asbestos.
- (e) Asbestos spill or emergency cleanup.
- (f) The transportation, disposal, storage, or containment of, and housekeeping activities involving, asbestos or products containing asbestos on the site or location at which construction activities are performed.

(2) Coverage under these rules shall be based on the nature of the work operation involving asbestos exposure.

History: 1994 AACCS; 1995 AACCS; 1997 AACCS; 2013 MR 11, Eff. June 12, 2013.

**R 325.51302 Adoption by reference of federal standard.**

Rule 2. (1) The federal occupational safety and health administration's regulations on occupational exposure to asbestos that have been promulgated by the United States department of labor and codified at 29 C.F.R. §1926.1101, "Asbestos Standards for Construction," as amended March 26, 2012, are adopted in these rules.

(2) The adopted federal regulations have the same force and effect as a rule promulgated under the Michigan Occupational Safety and Health Act (MIOSHA) 1974 PA 154, MCL 408.1001 to 408.1094.

(3) The adopted federal regulations are available without cost as of the time of adoption of these rules from the United States Department of Labor, OSHA, 315 West Allegan, Room 315, Lansing, Michigan 48933, or from the Michigan Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan 48909-8143, or via the internet at website.

History: 1994 AACCS; 1995 AACCS; 1997 AACCS; 1999 AACCS; 2013 MR 11, Eff. June 12, 2013.

**ASBESTOS STANDARDS FOR GENERAL INDUSTRY**

**R 325.51311 Scope and application.**

Rule 1. (1) These rules apply to all occupational exposures to asbestos in all industries covered by the Michigan Occupational Safety and Health Act (MIOSHA), 1974 PA 154, MCL 408.1001 to 408.1094, except as provided in subrule (2) of this rule.

(2) These rules do not apply to construction work as defined by the Michigan Occupational Safety and Health Act (MIOSHA), 1974 PA 154, MCL 408.1001 to 408.1094. Exposure to asbestos in construction work is covered by Occupational Health Standard Part 602 "Asbestos Standards for Construction," R 325.51301 and R 325.51302.

History: 1994 AACCS; 1995 AACCS; 1997 AACCS; 2013 MR 11, Eff. June 12, 2013.

**R 325.51312 Adoption by reference of federal standard.**

Rule 2. (1) The federal occupational safety and health administration's regulations on occupational exposure to asbestos that have been promulgated by the United States department of labor and codified at 29 C.F.R. §1910.1001, "Asbestos for General Industry," as amended March 26, 2012, are adopted in these rules.

effect as a rule promulgated under the Michigan Occupational Safety and Health Act (MIOSHA) 1974 PA 154, MCL 408.1001 to 408.1094

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(3) The adopted federal regulations are available without cost as of the time of adoption of these rules from the United States Department of Labor, OSHA, 315 West Allegan, Room 315, Lansing, Michigan 48933, or from the Michigan Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan 48909-8143, or via the internet at website [www.osha.gov](http://www.osha.gov).

History: 1994 AACCS; 1995 AACCS; 1997 AACCS; 2000 AACCS; 2013 MR 11, Eff. June 12, 2013.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**DIRECTOR'S OFFICE**

**OCCUPATIONAL HEALTH STANDARDS--VINYL CHLORIDE**

**R 325.51401 Scope and application.**

Rule 1. (1) These rules specify the requirements for the control of employee exposure to vinyl chloride (chloroethene), chemical abstracts service registry no. 75014.

(2) These rules apply to the manufacture, reaction, packaging, repackaging, storage, handling, or use of vinyl chloride or polyvinyl chloride, but do not apply to the handling or use of fabricated products made of polyvinyl chloride.

(3) These rules apply to the transportation of vinyl chloride or polyvinyl chloride, except to the extent that the United States department of transportation regulates the hazards covered by these rules.

History: 2000 AACCS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51401a Reference of standards.**

Rule 1a. (1) The following occupational safety and health administrative standards are referenced in this standard. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan 48909-8143, or via the internet at: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, at the time of adoption of these rules, is 4 cents per page.

(a) Occupational Health Standard Part 430 "Hazard Communication," R 325.77001 to R 325.77003.

(b) Occupational Health Standard Part 451 "Respiratory Protection," being R 325.60051 to R 325.60052.

(c) Occupational Health Standard Part 470 "Employee Medical Records and Trade Secrets," being R 325.3451 to R 325.3476.

(2) The Appendix to these rules is informational only and is not intended to create any additional obligations or requirements not otherwise imposed by these rules or to detract from any established obligations or requirements.

History: 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51402 Definitions.**

Rule 2. (1) For purposes of this standard, the following definitions shall apply:

(a) "Action level" means a concentration of vinyl chloride of 0.5 ppm averaged over an 8-hour work day.

(b) "Authorized person" means any person specifically authorized by the employer whose duties require him or her to enter a regulated area or any person entering an area as a designated representative of employees for the purpose of exercising an opportunity to observe monitoring and measuring procedures.

(c) "Director" means the director of the Michigan department of licensing and regulatory affairs or his or her designee.

(d) "Emergency" means any occurrence such as equipment failure, or operation of a relief device which is likely to, or does, result in massive release of vinyl chloride.

(e) "Fabricated product" means a product made wholly or partly from polyvinyl chloride, and which does not require further processing at temperatures, and for times, sufficient to cause mass melting of the polyvinyl chloride resulting in the release of vinyl chloride.

(f) "Hazardous operation" means an operation, procedure, or activity where a release of either vinyl chloride liquid or gas might be expected as a consequence of the operation or because of an accident in the operation, which would result in an employee exposure in excess of the permissible exposure limit.

(g) "Polyvinyl chloride" means polyvinyl chloride homopolymer or copolymer before conversion to a fabricated product.

(h) "Vinyl chloride" means vinyl chloride monomer.

History: 2000 AACCS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51403**

**Source:** 1998-2000 AACCS.

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**R 325.51404 Monitoring.**

Rule 4. (1) An employer shall undertake a program of initial monitoring and measurement in each establishment to determine if there is any employee exposed, without regard to the use of respirators, in excess of the action level.

(2) If a determination conducted under subrule (1) of this rule shows any employee exposures, without regard to the use of respirators, in excess of the action level, then an employer shall establish a program for determining exposures for each employee as determined under subrule (1) of this rule. The following requirements apply to the program:

(a) Shall be repeated at least quarterly if an employee is exposed, without regard to the use of respirators, in excess of the permissible exposure limit.

(b) Shall be repeated not less than every 6 months quarterly if an employee is exposed, without regard to the use of respirators, in excess of the action level.

(c) May be discontinued for an employee only if at least 2 consecutive monitoring determinations, made not less than 5 working days apart, show exposures for the employee at or below the action level.

(3) If there is a production, process, or control change which may result in an increase in the release of vinyl chloride, or the employer has any other reason to suspect that any employee may be exposed in excess of the action level, then the employer shall ensure that a determination of employee exposure under subrule (1) of this rule is performed.

(4) An employer shall ensure that the method of monitoring and measurement has an accuracy, ~~—(with a confidence level of 95 percent),~~ of not less than plus or minus 50 percent from 0.25 through 0.5 ppm, plus or minus 35 percent from over 0.5 ppm through 1.0 ppm, and plus or minus 25 percent over 1.0 ppm. Methods meeting these accuracy requirements are available in the “NIOSH Manual of Analytical Methods”.

(5) An employee or a designated representative shall be afforded reasonable opportunity to observe the monitoring and measuring required by these rules.

History: 2000 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51405 Regulated area.**

Rule 5. (1) An employer shall establish a regulated area where both of the following conditions occur:

(a) Vinyl chloride or polyvinyl chloride is manufactured, reacted, repackaged, stored, handled or used.

(b) Vinyl chloride concentrations are in excess of the permissible exposure limit.

(2) An employer shall limit access to regulated areas to authorized persons. A daily roster shall be made of authorized persons who enter.

History: 2000 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51406 Methods of compliance.**

Rule 6. An employer shall ensure that employee exposure to vinyl chloride is controlled to, at, or below the permissible exposure limit provided in R 325.51403 by the following engineering, work practice, and personal protective controls:

(a) Feasible engineering and work practice controls shall immediately be used to reduce exposures to, at, or below the permissible exposure limit.

(b) If feasible engineering and work practice controls which can be instituted immediately are not sufficient to reduce exposures to, at, or below the permissible exposure limit, then the controls shall nonetheless be used to reduce exposures to the lowest practicable level, and shall be supplemented by respiratory protection in accordance with R 325.51407. An employer shall establish and implement a program to reduce exposures to, at, or below the permissible exposure limit, or to the greatest extent feasible, solely by means of engineering and work practice controls, as soon as it is feasible.

(c) An employer shall develop written plans for a program and furnish the plans upon request for examination and copying to the authorized representatives of the director. The plans shall be updated at least annually.

History: 2000 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51407 Respiratory protection.**

Rule 7. (1) For employees who use respirators required by these rules, an employer shall provide each employee an appropriate respirator that complies with the requirements of these rules.

(2) An employer shall implement a respiratory protection program in accordance with Occupational Health Standard Part 451, “Respiratory Protection,” 29 C.F.R. Rules §1910.134 (c) to (d) and (f) to (m), except for (d) (1) (iii) and (d) (3) (iii) (B) (1) and (2), as referenced in R 325.51401a.

(3) An employer shall do all of the following:

(a) Select, and provide to employees, the appropriate respirators specified in paragraph (d) (3) (i) (A) of Occupational Health Standard Part 451 ‘Respiratory Protection,’ as referenced in R 325.51401a.

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(b) Provide an organic vapor cartridge that has a service life of at least 1 hour when using a chemical cartridge respirator at vinyl chloride concentrations up to 10 ppm.

(c) Select a canister that has a service life of at least 4 hours when using a powered air-purifying respirator having a hood, helmet, or full or half facepiece, or a gas mask with a front-or back-mounted canister, at vinyl chloride concentrations up to 25 ppm.

(4) Both of the following apply when air-purifying respirators are used:

(a) An employer shall replace air-purifying canisters or cartridges before the expiration of their service life or the end of the shift in which they are first used, whichever occurs first.

(b) An employer shall provide a continuous monitoring and alarm system where concentrations of vinyl chloride could reasonably exceed the allowable concentrations for the devices in use. An employer shall use the system to alert employees when vinyl chloride concentrations exceed the allowable concentrations for the devices in use.

(5) An employer may use apparatus prescribed for higher concentrations for any lower concentration.

History: 2000 AACCS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51408**

**Source:** 1998-2000 AACCS.

**R 325.51409 Emergency situations.**

Rule 9. An employer shall develop a written operations plan for emergency situations for each facility storing, handling, or otherwise using vinyl chloride as a liquid or compressed gas. Appropriate portions of the plan shall be implemented in the event of an emergency. The plan shall specifically provide the following:

(a) Employers shall equip employees engaged in hazardous operations or correcting situations of existing hazardous releases as required in R 325.51408.

(b) Employers shall ensure that other employees not equipped in accordance with subdivision (a) of this rule shall evacuate the area and not return until conditions are controlled by the methods required in R 325.51406 and the emergency is abated.

History: 2000 AACCS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51410**

**Source:** 1998-2000 AACCS.

**R 325.51411 Medical surveillance.**

Rule 11. (1) An employer shall institute a program of medical surveillance for each employee exposed, without regard to the use of respirators, to vinyl chloride in excess of the action level.

The employer shall provide each exposed employee with an opportunity for examinations and tests in accordance with this subrule. Both of the following shall be provided:

(a) The employer shall ensure that all medical examinations and procedures be performed by or under the supervision of a licensed physician.

(b) The medical examinations and procedures shall be provided without cost to the employee.

(2) An employer shall ensure that at the time of initial assignment, or upon institution of medical surveillance, the following requirements are met:

(a) A general physical examination shall be performed, with specific attention to detecting enlargement of liver, spleen or kidneys, or dysfunction in these organs, and for abnormalities in skin, connective tissues and the pulmonary system (See Appendix A of this rule).

(b) A medical history shall be taken, to include all of the following information:

(i) Alcohol intake.

(ii) Past history of hepatitis.

(iii) Work history and past exposure to potential hepatotoxic agents, including drugs and chemicals.

(iv) Past history of blood transfusions.

(v) Past history of hospitalizations.

(c) A serum specimen shall be obtained and determinations made of all of the following:

(i) Total bilirubin.

(ii) Alkaline phosphatase.

(iii) Serum glutamic oxalacetic transaminase (SGOT).

(iv) Serum glutamic pyruvic transaminase (SGPT).

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(v) Gamma glutamyl transpeptidase.

(3) An employer shall ensure that examinations provided in accordance with these rules are performed at least the following:

(a) Every 6 months for each employee who has been employed in vinyl chloride or polyvinyl chloride manufacturing for 10 years or longer.

(b) Annually for all other employees.

(4) An employer shall ensure that each employee exposed to an emergency is afforded appropriate medical surveillance.

(5) An employer shall obtain from the examining physician promptly after any examination a statement of each employee's suitability for continued exposure to vinyl chloride including use of protective equipment and respirators. An employer shall provide a copy of the physician's statement to each employee.

(6) An employer shall withdraw an employee from possible contact with vinyl chloride if the employee's health would be materially impaired by continued exposure.

(7) An employer shall ensure that laboratory analyses for all biological specimens included in medical examinations be performed by accredited laboratories.

(8) If the examining physician determines that alternative medical examination to those required by subrule (2) of this rule will provide at least equal assurance of detecting medical conditions pertinent to the exposure to vinyl chloride, then the employer may accept the alternative examinations as meeting the requirements of subrule (2) of this rule. The employer shall obtain a statement from the examining physician setting forth the alternative examinations and the rationale for substitution. This statement shall be available upon request for examination and copying by the director.

History: 2000 AACs; 2013 MR 18, Eff. Sept. 25, 2013.

**HAZARD COMMUNICATION**

**R 325.51411a Hazard communication--general.**

Rule 11a. (1) Chemical manufacturers, importers, distributors and employers shall comply with all requirements of the Occupational Health Standard Part 430 "Hazard Communication," as referenced in R 325.51401a, for vinyl chloride and polyvinyl chloride.

(2) In classifying the hazards of vinyl chloride, at least all of the following hazards are to be addressed:

(a) Cancer.

(b) Central nervous system effects.

(c) Liver effects.

(d) Blood effects.

(e) Flammability.

(3) An employer shall include vinyl chloride in the hazard communication program established to comply with the requirements of Occupational Health Standard Part 430 "Hazard Communication," as referenced in R 325.51401a. An employer shall ensure that each employee has access to labels on containers of vinyl chloride and to safety data sheets and is trained in accordance with the requirements of R 325.51410 of this rule and Occupational Health Standard Part 430 "Hazard Communication."

History: 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51412 Signs and labels.**

Rule 12 (1) The employer shall post entrances to regulated areas with legible signs bearing the following legend:

DANGER VINYL CHLORIDE MAY CAUSE CANCER AUTHORIZED PERSONNEL ONLY
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(2) The employer shall post signs at areas containing hazardous operations or where emergencies currently exist. The signs shall be legible and bear the following legend:

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DANGER  
VINYL CHLORIDE  
MAY CAUSE CANCER  
WEAR RESPIRATORY PROTECTION AND PROTECTIVE  
CLOTHING IN THIS AREA  
AUTHORIZED PERSONNEL ONLY

(3) Prior to June 1, 2016, an employer may use the following legend in lieu of that specified in subrule (1) of this rule:

CANCER-SUSPECT AGENT AREA  
AUTHORIZED PERSONNEL ONLY

(4) Prior to June 1, 2016, an employer may use the following legend in lieu of that specified in subrule (2) of this rule:

CANCER-SUSPECT AGENT IN THIS AREA  
PROTECTIVE EQUIPMENT REQUIRED  
AUTHORIZED PERSONNEL ONLY

(5) In addition to the other requirements in this rule, the employer shall ensure that labels for containers of polyvinyl chloride resin waste from reactors or other waste contaminated with vinyl chloride are legible and include the following information:

CONTAMINATED WITH VINYL CHLORIDE  
MAY CAUSE CANCER

(6) Prior to June 1, 2015, an employer may include the following information on labels of containers of polyvinyl chloride resin waste from reactors or other waste contaminated with vinyl chloride in lieu of the labeling requirements in subrule (5) of this rule:

CONTAMINATED WITH VINYL CHLORIDE  
CANCER-SUSPECT AGENT

(7) Prior to June 1, 2015, an employer may include the following information for containers of polyvinyl chloride in lieu of the labeling requirements of R 325.51411a of this rule:

POLYVINYL CHLORIDE (or Trade Name)  
contains VINYL CHLORIDE  
VINYL CHLORIDE IS A CANCER-SUSPECT AGENT

(8) Prior to June 1, 2015, an employer may include either the following information in this subrule or the information in subrule (9) of this rule, on containers of vinyl chloride in lieu of the labeling requirements in R 325.51411a:

VINYL CHLORIDE  
EXTREMELY FLAMMABLE GAS UNDER PRESSURE  
CANCER-SUSPECT AGENT

(9) An employer shall ensure that in accordance with 49 C.F.R., Parts 170-189 (United States Department of Transportation regulations), the additional following legend is applied near the label or placard:

CANCER-SUSPECT AGENT

(10) An employer shall ensure that no statement shall appear on or near any required sign, label, or instruction which contradicts or detracts from the effect of any required warning, information, or instruction.

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51413 Records.**

Rule 13. (1) An employer shall ensure that all records maintained in accordance with these rules include the name and social security number of each employee, if relevant.

(2) An employer shall keep records of required monitoring and measuring, medical records, and authorized personnel rosters in accordance with the requirements of Occupational Health Standard Part 470, "Employee Medical Records and Trade Secrets," as referenced in R 325.51401a. An employer shall make the records available to the director for examination and copying.

(3) An employer shall ensure that monitoring and measuring records comply with all of the following requirements:

(a) State the date of the monitoring and measuring and the concentrations determined and identify the instruments and methods used.

(b) Include any additional information necessary to determine individual employee exposures where exposures are determined by means other than individual monitoring of employees.

(c) Are maintained for not less than 30 years.

(4) An employer shall maintain authorized personnel rosters for not less than 30 years.

(5) An employer shall maintain medical records for the duration of employment of each employee plus 20 years, or for 30 years, whichever is longer.

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**R 325.51414 Reports.**

Rule 14. Within 15 working days following any monitoring and measuring which discloses that any employee has been exposed, without regard to the use of respirators, in excess of the permissible exposure limit, an employer shall notify each exposed employee, in writing, of the results of the exposure measurement and the steps being taken to reduce the exposure to within the permissible exposure limit.

APPENDIX A

SUPPLEMENTARY MEDICAL INFORMATION

When required tests under R 325.51411 (2) show abnormalities, the tests should be repeated as soon as practicable, preferably within 3 to 4 weeks. If tests remain abnormal, consideration should be given to withdrawal of the employee from contact with vinyl chloride, while a more comprehensive examination is made.

Additional tests which may be useful:

A. For kidney dysfunction: Urine examination for albumin, red blood cells, and exfoliative abnormal cells.

B. Pulmonary system: Forced vital capacity, forced expiratory volume at 1 second, and chest roentgenogram (posterior-anterior, 14 x 17 inches).

C. Additional serum tests: Lactic acid dehydrogenase, lactic acid dehydrogenase isoenzyme, protein determination, and protein electrophoresis.

D. For a more comprehensive examination on repeated abnormal serum tests: Hepatitis B antigen, and liver scanning.

History: 2002 AACS; 2013 MR 18, Eff. Sept. 25, 2013.

**FORMALDEHYDE**

**R 325.51451**

Source: 1990 AACS.

**R 325.51452**

Source: 1998-2000 AACS.

**R 325.51453**

Source: 1993 AACS.

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- R 325.51454**  
Source: 1993 AACS.
- R 325.51455**  
Source: 1993 AACS.
- R 325.51456**  
Source: 1990 AACS.
- R 325.51457**  
Source: 1990 AACS.
- R 325.51458**  
Source: 1990 AACS.
- R 325.51459**  
Source: 1990 AACS.
- R 325.51460**  
Source: 1998-2000 AACS.
- R 325.51461**  
Source: 1998-2000 AACS.
- R 325.51462**  
Source: 1998-2000 AACS.
- R 325.51463**  
Source: 1990 AACS.
- R 325.51464**  
Source: 1990 AACS.
- R 325.51465**  
Source: 1990 AACS.
- R 325.51466**  
Source: 1990 AACS.
- R 325.51467**  
Source: 1993 AACS.
- R 325.51468**  
Source: 1990 AACS.
- R 325.51469**  
Source: 1990 AACS.
- R 325.51470**  
Source: 1998-2000 AACS.
- R 325.51471**  
Source: 1993 AACS.
- R 325.51472**  
Source: 1993 AACS.
- R 325.51473**  
Source: 1993 AACS.

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**R 325.51474**  
Source: 1990 AACS.

**R 325.51475**  
Source: 1993 AACS.

**R 325.51476**  
Source: 1998-2000 AACS.

**R 325.51477**  
Source: 1998-2000 AACS.

**ACRYLONITRILE (AN)**

**R 325.51501**  
Source: 1980 AACS.

**R 325.51502**  
Source: 1998-2000 AACS.

**R 325.51503**  
Source: 1980 AACS.

**R 325.51504**  
Source: 1980 AACS.

**R 325.51505**  
Source: 1980 AACS.

**R 325.51506**  
Source: 1980 AACS.

**R 325.51507**  
Source: 1980 AACS.

**R 325.51508**  
Source: 1980 AACS.

**R 325.51509**  
Source: 1998-2000 AACS.

**R 325.51510**  
Source: 1980 AACS.

**R 325.51511**  
Source: 1993 AACS.

**R 325.51512**  
Source: 1980 AACS.

**R 325.51513**  
Source: 1980 AACS.

**R 325.51514**  
Source: 1980 AACS.

**R 325.51515**  
Source: 1980 AACS.

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- R 325.51516**  
Source: 1980 AACS.
- R 325.51517**  
Source: 1998-2000 AACS.
- R 325.51518**  
Source: 1980 AACS.
- R 325.51519**  
Source: 1998-2000 AACS.
- R 325.51520**  
Source: 1980 AACS.
- R 325.51521**  
Source: 1980 AACS.
- R 325.51522**  
Source: 1980 AACS.
- R 325.51523**  
Source: 1980 AACS.
- R 325.51524**  
Source: 1993 AACS.
- R 325.51525**  
Source: 1993 AACS.
- R 325.51526**  
Source: 1980 AACS.
- R 325.51527**  
Source: 1998-2000 AACS.

**INORGANIC ARSENIC (AS)**

- R 325.51601**  
Source: 1993 AACS.
- R 325.51602**  
Source: 1998-2000 AACS.
- R 325.51603**  
Source: 1980 AACS.
- R 325.51604**  
Source: 1980 AACS.
- R 325.51605**  
Source: 1980 AACS.
- R 325.51606**  
Source: 1993 AACS.
- R 325.51607**  
Source: 1980 AACS.

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- R 325.51608**  
Source: 1980 AACS.
- R 325.51609**  
Source: 1980 AACS.
- R 325.51610**  
Source: 1998-2000 AACS.
- R 325.51611**  
Source: 1998-2000 AACS.
- R 325.51612**  
Source: 1998-2000 AACS.
- R 325.51613**  
Source: 1998-2000 AACS.
- R 325.51614**  
Source: 1998-2000 AACS.
- R 325.51615**  
Source: 1980 AACS.
- R 325.51616**  
Source: 1980 AACS.
- R 325.51617**  
Source: 1980 AACS.
- R 325.51618**  
Source: 1998-2000 AACS.
- R 325.51619**  
Source: 1998-2000 AACS.
- R 325.51620**  
Source: 1980 AACS.
- R 325.51621**  
Source: 1980 AACS.
- R 325.51622**  
Source: 1993 AACS.
- R 325.51623**  
Source: 1980 AACS.
- R 325.51624**  
Source: 1980 AACS.
- R 325.51625**  
Source: 1993 AACS.
- R 325.51626**  
Source: 1980 AACS.
- R 325.51627**  
Source: 1980 AACS.

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**R 325.51628**

Source: 1998-2000 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**METHYLENE CHLORIDE**

**R 325.51651 Scope and application.**

Rule 1. (1) These rules apply to all occupational exposures to methylene chloride (MC), chemical abstracts service registry no. 75-09-2, in all industries covered by 1974 PA 154, known as the Michigan Occupational Safety and Health Act (MIOSHA), MCL 408.1001 to 408.1094.

(2) These rules replace all references to methylene chloride contained in table G-2 in Occupational Health Part 301 "Air Contaminants for General Industry," as referenced in R 325.51653.

History: 1998 AACS; 2013 MR 18, Eff. Sept. 26, 2013.

**R 325.51652. Adoption of standards by reference.**

Rule 2. (1) The following federal occupational safety and health administration (OSHA) regulations are adopted by reference in these rules.

(a) 29 C.F.R. §1910.1052 "Methylene chloride," effective March 26, 2012.

(b) 29 C.F.R. §1926.1152 "Methylene chloride," effective January 10, 1997.

(2) All of the following provisions apply with respect to the regulations adopted in subrule (1) of these rules:

(a) A reference to 29 C.F.R. §1910.120, "Hazardous waste and emergency response," means Occupational Health Standard Part 432 "Hazardous Waste Operations and Emergency Response," as referenced in R 325.51653.

(b) A reference to 29 C.F.R. §1910.133, "Eye and face protection," means Occupational Health Standard Part 433 "Personal Protective Equipment;" General Industry Safety Standard Part 33 "Personal Protective Equipment;" and Construction Safety Standard Part 6 "Personal Protective Equipment;" as referenced in R 325.51653.

(c) A reference to 29 C.F.R. §1910.1200 and 29 C.F.R. §1926.59 "Hazard communication," means Occupational Health Standard Part 430 "Hazard Communication;" General Industry Safety Standard Part 92 "Hazard Communication;" and Construction Safety Standard Part 42 "Hazard Communication;" as referenced in R 325.51653.

(d) A reference to 29 C.F.R. §1910.1020 "Access to employee exposure records and medical records," means Occupational Health Standard Part 470 "Employee Medical Records and Trade Secrets," as referenced in R 325.51653.

(3) The provisions of 29 C.F.R. §1910.1052 and 29 C.F.R. §1926.1152 have the same force and effect as rules promulgated under 1974 PA 154, known as the Michigan Occupational Safety and Health Act (MIOSHA), MCL 408.1001 to 408.1094.

(4) The standards adopted in subrule (1) of this rule are available from the United States Department of Labor, Occupational Safety and Health Administration website: [www.osha.gov](http://www.osha.gov), at no charge as of the time of adoption of these rules.

(5) The standards adopted in subrule (1) of this rule are also available for inspection at the Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, Lansing, Michigan, 48909-8143.

(6) The standards adopted in subrule (1) of this rule may be obtained from the publisher or may also be obtained from the Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143, plus \$20.00 for shipping and handling.

(7) Appendices A, B, and C, to these rules are informational only and are not intended to create any additional obligations or requirements not otherwise imposed or to detract from any established obligations or requirements.

History: 1998 AACS; 2013 MR 18, Eff. Sept. 26, 2013.

**R 325.51653 MIOSHA referenced standards.**

Rule 3. The following Michigan occupational safety and health (MIOSHA) standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

(a) Construction Safety Standard Part 6 "Personal Protective Equipment," R 408.40601 to R 408.40641.

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- (b) General Industry Safety Standard Part 33 “Personal Protective Equipment,” R 408.13301 to R 408.13399.
- (c) Occupational Health Standard Part 433 “Personal Protective Equipment,” R 325.60001 to R 325.60013.
- (d) Construction Safety Standard Part 42 “Hazard Communication,” R 408.44201 to R 408.44203.
- (e) General Industry Safety Standard Part 92 “Hazard Communication,” R 408.19201 to R 408.19203.
- (f) Occupational Health Standard Part 430 “Hazard Communication,” R 325.77001 to R 325.77003.
- (g) Occupational Health Standard Part 301 “Air Contaminants for General Industry,” R 325.51101 to R 325.51108.
- (h) Occupational Health Standard Part 432 “Hazardous Waste Operations and Emergency Response,” R 325.52101 to R 325.52137.
- (i) Occupational Health Standard Part 470 “Employee Medical Records and Trade Secrets,” R 325.3451 to R 325.3476.  
History: 2013 MR 18, Eff. Sept. 26, 2013.

**CADMIUM**

**R 325.51851 Scope and application.**

- Rule 1. (1) These rules apply to all occupational exposures to cadmium and cadmium compounds in all forms and in all industries and employment situations, including the construction industry, except as provided in subrule (2) of this rule.
- (2) Some of these rules and subrules of these rules apply only to the construction industry or to general industry and agricultural operations, as indicated in the rules and subrules. If a specific application is not indicated in a rule or subrule, then the rule or subrule applies to general industry, agricultural operations, and the construction industry.
- (3) The rule replaces all references to cadmium contained in Occupational Health Standards Part 301 “Air Contaminants for General Industry” and Part 601 “Air Contaminants for Construction,” as referenced in R 325.51851a.  
History: 1993 AACs; 1998 AACs; 2013 MR 10, Eff. June 5, 2013.

**R 325.51851a MIOSHA standards by reference.**

- Rule 1a. (1) The following Michigan occupational safety and health administration (MIOSHA) standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of licensing and regulatory affairs, MIOSHA standards section, 7150 Harris Drive, P.O. Box 30643, Lansing, MI, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, at the time of adoption of these rules, is 4 cents per page.
- (a) Administrative Part 11 “Recording and Reporting of Occupational Injuries and Illnesses,” R 408.22101 to R 408.22162.
  - (b) Construction Safety Standard Part 1 “General Rules,” R 408.40101 to R 408.40134.
  - (c) General Industry Safety Standard Part 1 “General Provisions,” R 408.10001 to R 408.10098.
  - (d) General Industry Safety Standard Part 33 “Personal Protective Equipment,” R 408.13301 to R 408.13398.
  - (e) Occupational Health Standard Part 301 “Air Contaminants for General Industry,” R 325.51101 to R 325.51108.
  - (f) Occupational Health Part 430 “Hazard Communication,” R 325.77001 to R 325.77003.
  - (g) Occupational Health Part 451 “Respiratory Protection,” R 325.60051 to R 325.60052.
  - (h) Occupational Health Part 470 “Employee Medical Records and Trade Secrets,” R 325.3451 to R 325.3476.
  - (i) Occupational Health Part 520 “Ventilation Control,” R 325.52001 to R 325.52012.
  - (j) Occupational Health Part 601 “Air Contaminants for Construction,” R 325.60151 to R 325.60161.
  - (k) Occupational Health Part 621 “Health Hazard Control for Specific Equipment and Operations for Construction,” R 325.62102 to R 325.62126.
- (2) Appendices, except where portions of Appendices A, B, D, E, and F to this rule are expressly incorporated in requirements of this rule, are purely informational and are not intended to create any additional obligations not otherwise imposed or to detract from any existing obligations.  
History: 2013 MR 10, Eff. June 5, 2013.

**R 325.51852 Definitions.**

Rule 2. As used in these rules:

- (a) “Action level” (AL) means an airborne concentration of cadmium of 2.5 micrograms per cubic meter of air (2.5 µg/m<sup>3</sup>), calculated as an 8-hour, time-weighted average (TWA).
- (b) “Authorized person” means a person who is authorized by an employer, and who is required by work duties, to be present in a regulated area, or a person who is authorized under 1974 PA 154, MCL 408.1001 to 408.1094, and regulations issued under 1974 PA 154 to be in a regulated area for the purpose of conducting an authorized investigation.

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(c) "Competent person" means a person who is designated by an employer to act on the employer's behalf, who is capable of identifying existing and potential cadmium hazards in the workplace and the proper methods to control the hazards to protect workers, and who has the authority necessary to take prompt corrective measures to eliminate or control such hazards. See R 325.51884 for the duties of a competent person.

(d) "Construction industry" means employers whose operations involve the construction, alteration, maintenance, repair, and demolition of a facility. Construction work includes any of the following:

(i) The wrecking, demolition, or salvage of structures where cadmium or materials that contain cadmium are present.

(ii) The use of cadmium-containing paints and cutting, brazing, burning, grinding, or welding on surfaces that are painted with cadmium-containing paints.

(iii) The construction, alteration, repair, maintenance, or renovation of structures, substrates, or portions thereof that contain cadmium or materials that contain cadmium.

(iv) Cadmium welding or cutting of cadmium-plated steel and brazing or welding with cadmium alloys.

(v) The installation of products that contain cadmium.

(vi) Electrical grounding with cadmium welding and electrical work using cadmium-coated conduit.

(vii) Maintaining or retrofitting cadmium-coated equipment.

(viii) Cadmium contamination cleanup and emergency operations that involve cadmium.

(ix) The transportation, disposal, storage, or containment of cadmium or materials, that contain cadmium on the site or location at which construction activities are performed.

(e) "Director" means the director of the Michigan department of licensing and regulatory affairs or his or her designee.

(f) "Employee exposure" means the exposure to airborne cadmium that would occur if the employee were not using respiratory protective equipment.

(g) "Final medical determination" means the written medical opinion of the employee's health status by the examining physician under R 325.51870 to R 325.51876, and R 325.51877 if the review is by more than 1 physician, or R 325.51877(5) if the alternative physician determination is invoked. It is the final, written medical finding, recommendation, or determination that emerges from the medical surveillance process.

(h) "High-efficiency particulate air (HEPA) filter" means a filter that is capable of trapping and retaining not less than 99.97% of mono-dispersed particles that are 0.3 micrometers in diameter.

(i) "Regulated area" means an area which is demarcated by an employer and in which an employee's exposure to airborne concentrations of cadmium exceeds, or can reasonably be expected to exceed, the permissible exposure limit (PEL).

History: 1993 AACS; 1998 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51853**

**Source:** 1993 AACS.

**R 325.51854 Exposure monitoring generally.**

Rule 4. (1) This subrule applies only to construction. Before performing of any construction work where employees may potentially be exposed to cadmium, an employer shall establish the applicability of these rules by determining whether cadmium is present in the workplace and whether there is the possibility that employee exposures will be at or above the action level. An employer shall designate a competent person to make this determination. The employers shall use appropriate investigation and material testing techniques in making the determination. An investigation shall include all of the following:

(a) A review of relevant plans.

(b) A review of past reports relative to cadmium.

(c) Safety data sheets.

(d) Other available records.

(e) Consultations with the property owner.

(f) Discussions with appropriate individuals and agencies.

(2) An employer whose workplace or work operation involves cadmium in any way shall determine if any employee may be exposed to cadmium at or above the action level. An employer shall identify which employees potentially are exposed to cadmium at or above the action level and shall conduct exposure monitoring to determine what the exposure levels are.

(3) Determinations of employee exposure shall be made from breathing zone air samples that reflect the monitored employee's regular, daily 8-hour TWA exposure to cadmium.

(4) Eight-hour TWA exposures shall be determined for each employee on the basis of 1 or more personal breathing zone air samples that reflect a full shift of exposure on each shift, for each job classification, in each work area. Where several

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employees perform the same job tasks, in the same job classification, on the same shift, and in the same work area and the length, duration, and level of cadmium exposures are similar, an employer may sample a representative fraction of the employees instead of all of the employees to meet this requirement. In representative sampling, an employer shall sample the employee who is expected to have the highest cadmium exposures.

(5) An employer shall use a method of monitoring and analysis that has an accuracy of not less than plus or minus 25%, with a confidence level of 95%, for airborne concentrations of cadmium at or above the action level, the permissible exposure limit (PEL), and the separate engineering control air limit (SECAL).

History: 1993 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51855**

**Source:** 1998-2000 AACS.

**R 325.51856 Employee notification of monitoring results.**

Rule 6. (1) Not later than 15 working days for general industry and agricultural operations and not later than 5 working days for the construction industry, after an employer receives the results of any exposure monitoring that is performed pursuant to the provisions of these rules, an employer shall notify each affected employee individually in writing, or by posting the results, in an appropriate location that is accessible to all affected employees.

(2) If monitoring results indicate that employee exposure exceeds the PEL, then an employer shall include, in the written notice, a statement that the PEL has been exceeded and a description of the corrective action that is being taken by the employer to reduce employee exposure to or below the PEL.

History: 1993 AACS; 1998 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51857**

**Source:** 1993 AACS.

**R 325.51858**

**Source:** 1998-2000 AACS.

**R 325.51859 Engineering and work practice controls; applicability of rule to construction industry.**

Rule 9. (1) This rule applies only to the construction industry. Except as specified in subrule (2) of this rule, an employer shall implement engineering and work practice controls to reduce and maintain employee exposure to cadmium at or below the PEL, unless, and to the extent that, the employer can demonstrate that the controls are not feasible.

(2) The requirement to implement engineering controls to achieve the PEL does not apply if an employer can demonstrate both of the following:

(a) The employee is only intermittently exposed.

(b) The employee is not exposed above the PEL on 30 or more days per 12-consecutive-month period.

(3) If engineering and work practice controls are not sufficient to reduce employee exposure at or below the PEL, an employer nonetheless shall implement the controls to reduce exposures to the lowest levels achievable. The employer shall supplement the controls with respiratory protection that is in compliance with R 325.51862 and the PEL.

(4) An employer shall not use employee rotation as a method of compliance.

(5) All of the following provisions apply to the specific operations indicated:

(a) Abrasive blasting of cadmium or cadmium-containing materials shall be conducted in a manner that will provide adequate protection for employees.

(b) Welding, cutting, and other forms of heating cadmium or cadmium-containing materials shall be conducted in accordance with Occupational Health Standard Part 621 "Health Hazard Control for Specific Equipment and Operations for Construction," as referenced in R 325.51851a, where applicable.

(c) High-speed abrasive disc saws and similar abrasive power equipment that are ~~is~~ used for work on cadmium or cadmium-containing materials shall be equipped with appropriate engineering controls to minimize emissions to levels below the PEL.

(d) Materials that contain cadmium shall not be applied by spray methods if resulting exposures are above the PEL, unless employees are protected with supplied-air respirators which have full facepieces, hoods, helmets, and suits and which are operated in a positive pressure mode and, in addition, measures are instituted to limit overspray to prevent contamination of adjacent areas.

History: 1993 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51860 Use of mechanical ventilation to control exposure to cadmium.**

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Rule 10. (1) If ventilation is used to control cadmium exposure, measurements that demonstrate the effectiveness of the system in controlling exposure, such as capture velocity, duct velocity, or static pressure, shall be made as necessary to ensure the ventilation system's effectiveness.

(2) Measurements of the system's effectiveness in controlling exposure shall be made as necessary within 5 working days of any change in production, process, or control that might result in a significant increase in employee exposure to cadmium.

(3) If air from exhaust ventilation is recirculated into the workplace, the system shall have a high-efficiency filter and be monitored to ensure effectiveness. Recirculation of local exhaust air shall be in compliance with Occupational Health Standard Part 520 "Ventilation Control," as referenced in R 325.51851a.

(4) Procedures shall be developed and implemented to minimize employee exposure to cadmium when maintenance is performed on the ventilation systems and when filters are changed.

History: 1993 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51861**

**Source:** 1993 AACS.

**R 325.51862 Respiratory protection; circumstances for use; selection.**

Rule 12. (1) For employees who use respirators required by this rule, the employer shall provide each employee an appropriate respirator that complies with the requirements of this rule. Respirators must be used during all of the following:

(a) Periods necessary to install or implement feasible engineering and work practice controls when employee exposures exceeds the PEL.

(b) Maintenance and repair activities and brief or intermittent work operations for which employee exposures exceed the PEL and engineering and work practice controls are not feasible or are not required.

(c) Work operations in the regulated areas specified in R 325.51857.

(d) Work operations for which the employer has implemented all feasible engineering and work practice controls and such controls are not sufficient to reduce exposures to or below the PEL.

(e) Emergencies.

(f) Work operations for which an employee who is exposed to cadmium at or above the action level requests a respirator.

(g) Work operations for which engineering controls are not required by R 325.51859(2) to reduce employee exposures that exceed the PEL.

(2) The employer shall do all of the following:

(a) Select, and provide to employees, the appropriate respirators specified in paragraph (d)(3)(i)(A) of Occupational Health Standard Part 451 "Respiratory Protection," as referenced in R 325.51851a.

(b) Provide employees with full facepiece respirators when they experience eye irritation.

(c) Provide HEPA filters for powered and non-powered air-purifying respirators.

(3) An employer shall provide a powered, air-purifying respirator (PAPR) in place of a negative pressure respirator if an employee who is entitled to a respirator chooses to use this type of respirator and if a PAPR respirator will provide adequate protection to the employee.

History: 1993 AACS; 1999 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51863 Respiratory protection program; fit testing.**

Rule 13. (1) The employer shall implement a respiratory protection program in accordance with Occupational Health Standard Part 451 "Respiratory Protection," Rules 1910.134(b) to (d) and (f) to (m), except for (d)(1)(iii), as referenced in R 325.51851a, which covers each employee required by this rule to use a respirator.

(2) If an employee exhibits breathing difficulty during fit testing or respirator use, then the employer shall provide the employee with a medical examination under R 325.51868(2)(d) to determine if the employee can use a respirator while performing the required duties.

(3) An employee shall not use a respirator when, based on his or her most recent medical examination, the examining physician determines that the employee will be unable to continue to function normally while using a respirator. If the physician determines the employee must be limited in, or removed from, the employee's current job because of the employee's inability to use a respirator, then the employer shall conduct the job limitation or removal under R 325.51875 and R 325.51876.

History: 1993 AACS; 1998-2000 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51864**

Source: 1993 AACS.

**R 325.51865 Protective work clothing and equipment.**

Rule 15. (1) If an employee is exposed to airborne cadmium above the PEL or if skin or eye irritation is associated with cadmium exposure at any level, then an employer shall provide, at no cost to the employee, and ensure that the employee uses, appropriate protective work clothing and equipment that prevents contamination of the employee and the employee's garments. Protective work clothing and equipment includes all of the following:

- (a) Coveralls or similar full-body work clothing.
- (b) Gloves, head coverings, and boots or foot coverings.
- (c) Face shields, vented goggles, or other appropriate protective equipment that is in compliance with General Industry Standard Part 33 "Personal Protective Equipment," as referenced in R 325.51851a.

(2) All of the following provisions pertain to the removal and storage of protective work clothing and equipment:

(a) An employer shall ensure that employees remove all protective clothing and equipment that is contaminated with cadmium at the completion of the work shift and that employees do so only in change rooms that are provided in accordance with R 325.51866(2).

(b) An employer shall ensure that an employee does not take cadmium-contaminated protective clothing or equipment from the workplace, except for employees who are authorized to do so for purposes of laundering, cleaning, maintaining, or disposing of cadmium-contaminated protective clothing and equipment at an appropriate location or facility away from the workplace.

(c) An employer shall ensure that contaminated protective clothing and equipment, when removed for laundering, cleaning, maintenance, or disposal, is placed and stored in sealed, impermeable bags or other closed, impermeable containers that are designed to prevent the dispersion of cadmium dust.

(d) An employer shall assure that bags or containers of contaminated protective clothing and equipment that are to be taken out of the change rooms or the workplace for laundering, cleaning, maintenance, or disposal bear labels in accordance with R 325.51879.

(3) All of the following provisions pertain to the cleaning, replacement, and disposal of protective clothing and equipment:

(a) An employer shall provide the protective clothing and equipment required by subrule (1) of this rule in a clean and dry condition as often as necessary to maintain its effectiveness, but at least weekly. An employer is responsible for cleaning and laundering the protective clothing and equipment required by this rule to maintain its effectiveness and is also responsible for disposing of the clothing and equipment.

(b) An employer is responsible for repairing or replacing required protective clothing and equipment as needed to maintain its effectiveness. An employer shall ensure that rips or tears, which are detected while an employee is working are immediately mended or the worksuit shall be immediately replaced.

(c) An employer shall prohibit the removal of cadmium from protective clothing and equipment by blowing, shaking, or any other means that disperses cadmium into the air.

(d) An employer shall ensure that any laundering of contaminated clothing or cleaning of contaminated equipment in the workplace is done in a manner that prevents the release of airborne cadmium in excess of the PEL.

(e) An employer shall inform any person who launders or cleans protective clothing or equipment contaminated with cadmium of the potentially harmful effects of exposure to cadmium and that the clothing and equipment should be laundered or cleaned in a manner to effectively prevent the release of airborne cadmium in excess of the PEL.

History: 1993 AACS; 1998 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51866 Hygiene areas and practices.**

Rule 16. (1) An employer shall provide clean change rooms, handwashing facilities, showers, and lunchroom facilities that are in compliance with General Industry Standard Part 1 "General Provisions," or Construction Safety Standard Part 1 "General Rules," as referenced in R 325.51851a, for employees whose airborne exposure to cadmium is above the PEL.

(2) An employer shall ensure that change rooms are equipped with separate storage facilities for street clothes and for protective clothing and equipment which are designed to prevent the dispersion of cadmium and contamination of the employee's street clothes.

(3) Both of the following provisions pertain to showers and handwashing facilities:

(a) An employer shall ensure that employees who are exposed to cadmium above the PEL shower during the end of the work shift.

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(b) An employer shall ensure that employees whose airborne exposure to cadmium is above the PEL wash their hands and faces before eating, drinking, smoking, chewing tobacco or gum, or applying cosmetics.

(4) Both of the following provisions pertain to lunchroom facilities:

(a) An employer shall ensure that lunchroom facilities are readily accessible to employees, that tables for eating are maintained free of cadmium, and that no employee in a lunchroom facility is exposed at any time to cadmium at or above a concentration of 2.5 µg/m<sup>3</sup>.

(b) An employer shall ensure that employees do not enter lunchroom facilities with protective work clothing or equipment unless surface cadmium has been removed from the clothing and equipment by HEPA filter vacuuming or some other method that removes cadmium dust without dispersing it.

History: 1993 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51867 Housekeeping.**

Rule 17. An employer shall comply with all of the appropriate following requirements pertaining to housekeeping:

(a) All surfaces shall be maintained as free as practical of the accumulation of cadmium.

(b) All spills and sudden releases of material that contains cadmium shall be cleaned up as soon as possible.

(c) Surfaces that are contaminated with cadmium shall, where possible, be cleaned by vacuuming or other method that minimizes the likelihood of cadmium becoming airborne.

(d) HEPA filter vacuuming equipment or equally effective filtration methods shall be used for vacuuming. The equipment shall be used and emptied in a manner that minimizes the reentry of cadmium into the workplace.

(e) Shoveling or dry or wet sweeping and brushing may be used only if vacuuming or other methods that minimize the likelihood of cadmium becoming airborne have been tried and found to be ineffective.

(f) Compressed air shall not be used to remove cadmium from any surface unless the compressed air is used in conjunction with a ventilation system that is designed to capture the dust cloud created by the compressed air.

(g) Waste scrap, debris, bags, containers, personal protective equipment, and clothing which are contaminated with cadmium and which are consigned for disposal shall be collected and disposed of in sealed impermeable bags or other closed, impermeable containers. The bags and containers shall be labeled in accordance with R 325.51878a and R 325.51879.

History: 1993 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51868 Medical surveillance generally; applicability of subrules (1) and (2)**

Rule 18. (1) This subrule applies only to general industry and agricultural operations. An employer shall institute a medical surveillance program as follows:

(a) For all employees who are or may be exposed to cadmium at or above the action level, unless the employer can demonstrate that the employee is not, and will not be, exposed at or above the action level on 30 or more days during a 12-consecutive-month period.

(b) For all employees who, before September 16, 1993, might previously have been exposed to cadmium at or above the action level by the employer, unless the employer can demonstrate that the employee, before September 16, 1993, did not work for the employer in jobs with exposure to cadmium for an aggregated total of more than 60 months.

(c) To determine an employee's fitness for wearing a respirator, an employer shall provide the limited medical examination specified by R 325.51873(1) and (2).

(2) This subrule applies only to the construction industry. An employer shall institute a medical surveillance program as follows:

(a) For all employees who are or may be exposed at or above the action level.

(b) For all employees who perform any of the following tasks, operations, or jobs:

(i) Electrical grounding with cadmium welding.

(ii) Cutting, brazing, burning, grinding, or welding on surfaces that are painted with cadmium containing paints.

(iii) Electrical work using cadmium-coated conduit.

(iv) Use of cadmium-containing paints.

(v) Cutting and welding cadmium-plated steel.

(vi) Brazing or welding with cadmium alloys.

(vii) Fusing of reinforced steel by cadmium welding.

(viii) Maintaining or retrofitting cadmium-coated equipment.

(ix) Wrecking and demolition where cadmium is present.

(c) For all employees who previously might have been exposed to cadmium by the employer before September 16, 1993, in tasks listed in subdivision (b) of this subrule, unless the employer can demonstrate that the employee, in the years

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before September 16, 1993, did not work in those tasks for the employer with exposure to cadmium for an aggregated total of more than 12 months.

(d) To determine an employee's fitness for wearing a respirator, an employer shall provide the limited medical examination specified by R 325.51873(1) and (2).

(e) A medical surveillance program is not required if an employer can demonstrate that both of the following provisions apply:

(i) An employee is not currently exposed by the employer to airborne concentrations of cadmium at or above the action level on 30 or more days during a 12-consecutive-month period.

(ii) An employee is not currently exposed by the employer in those tasks listed in subdivision (b) of this subrule on 30 or more days during a 12-consecutive-month period.

(3) An employer shall ensure that all medical examinations and procedures that are required by these rules are performed by or under the supervision of a licensed physician who has read, and is familiar with, all of the following:

(a) The health effects section of appendix A.

(b) The regulatory text of these rules.

(c) The protocol for sample handling and laboratory selection in appendix F.

(d) The questionnaire in appendix D. All medical surveillance, examinations, tests, and procedures shall be provided without cost to the employee and at a time and place that is reasonable and convenient for employees.

(4) An employer shall ensure that the collection and handling of biological samples of cadmium in urine (CdU), cadmium in blood (CdB), and beta-2 microglobulin in urine ( $\beta_2$ -M) taken from employees is done in a manner that ensures the integrity and reliability of the samples and that analysis of the samples is performed in laboratories that have a demonstrated proficiency for the particular analyte. See appendix F.

History: 1993 AACS; 1998 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51869 Initial medical examination.**

Rule 19. (1) An employer shall provide an initial medical examination to all employees who are covered by the medical surveillance program required pursuant to R 325.51868(1) or (2). The examination shall be provided to covered employees within 30 days after initial assignment to a job with exposure to cadmium or not later than 90 days after September 16, 1993, whichever date is later.

(2) The initial medical examination shall include both of the following elements:

(a) A detailed medical and work history, with an emphasis on all of the following:

(i) Past, present, and anticipated future exposure to cadmium.

(ii) Any history of renal, cardiovascular, respiratory, hematopoietic, reproductive, or musculoskeletal system dysfunction.

(iii) Current use of medication that has potential nephrotoxic side effects.

(iv) Smoking history and current status.

(b) Biological monitoring that includes all of the following tests:

(i) Cadmium in urine (CdU), standardized to grams of creatinine (g Cr).

(ii) Beta-2 microglobulin in urine (B2-M), standardized to grams of creatinine (g Cr) with Ph specified, as described in appendix F.

(iii) Cadmium in blood (CdB), standardized to liters of whole blood (lwb).

(3) An initial medical examination is not required to be provided if adequate records show that an employee has been examined in accordance with the requirements of subrule (2) of this rule within the past 12 months. If an employee has been examined in accordance with the requirements of subrule (2) of this rule within the past 12 months, the records shall be maintained as part of the employee's medical record and the exam shall be treated as if it were an initial medical examination for the purposes of R 325.51870 and R 325.51871.

History: 1993 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51870**

Source: 1998-2000 AACS.

**R 325.51871**

Source: 1993 AACS.

**R 325.51872**

Source: 1998-2000 AACS.

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**R 325.51873 Medical exams for fitness to use respirators, for exposure due to emergency, and at termination.**

Rule 23. (1) To determine an employee's fitness for respirator use, an employer shall provide a medical examination that includes the elements specified in this subrule. The examination shall be provided before an employee is assigned to a job that requires the use of a respirator or not more than 90 days after September 16, 1993, whichever date is later, to any employee who has not had a medical examination within the preceding 12 months that satisfies the requirements of this subrule. The medical exam shall include all of the following:

(a) A detailed medical and work history, or update thereof, with an emphasis on all of the following:

(i) Past exposure to cadmium.

(ii) Smoking history and current status.

(iii) Any history of renal, cardiovascular, respiratory, hematopoietic, or musculo-skeletal system dysfunction.

(iv) A description of the job for which the respirator is required.

(v) Answers to questions 3-11 and 25-32 in appendix D to these rules.

(b) A blood pressure test.

(c) Biological monitoring of the employee's levels of CdU, CdB, and  $\beta$ 2-M in accordance with the requirements of R 325.51869(2)(b), unless the results have been obtained within the previous 12 months.

(d) Any other test or procedure that the examining physician deems appropriate.

(2) All of the following provisions pertain to the medical examination for respirator use:

(a) After reviewing all of the information obtained from the medical examination required in subrule (1) of this rule, the physician shall determine whether the employee is fit to wear a respirator.

(b) If an employee has exhibited difficulty in breathing during a respirator fit test or during use of a respirator, an employer shall provide the employee, as soon as possible, with a periodic medical examination in accordance with R 325.51871(2) to determine the employee's fitness to wear a respirator.

(c) If the results of the examination required by subrule (1) of this rule or subdivision (a) or (b) of this subrule are abnormal, the medical limitation or prohibition of respirator use shall be considered. If the employee is allowed to wear a respirator, the employee's ability to continue to do so shall be periodically evaluated by a physician.

(3) In addition to the medical surveillance required by R 325.51869 to R 325.51873(2), an employer shall provide a medical examination, as soon as possible, to any employee who may have been acutely exposed to cadmium because of an emergency. The examination shall include the information required pursuant to R 325.51871(2), with an emphasis on the respiratory system, other organ systems considered appropriate by the examining physician, and symptoms of acute overexposure, as reviewed in appendix A to these rules.

(4) At termination of employment, an employer shall provide a medical examination in accordance with R 325.51871(2), including a chest X ray where necessary, to any employee to whom, at any prior time, an employer was required to provide medical surveillance pursuant to R 325.51868(1) or subrule (3) of this rule. However, if the last examination satisfied the requirements of R 325.51871(2) and was less than 6 months before the date of termination, then another examination is not required unless otherwise specified by R 325.51870 or R 325.51872(1) or (2). If the employer has discontinued all periodic medical surveillance as provided by the provisions of R 325.51871(4), the termination of employment medical examination is not required.

History: 1993 AACCS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51874 Providing of information to physician by employer; employer required to obtain medical opinion; employer required to obtain results of biological monitoring; findings unrelated to cadmium exposure.**

Rule 24. (1) An employer shall provide all of the following information to an examining physician:

(a) A copy of these rules and appendices.

(b) A description of an affected employee's former, current, and anticipated duties as they relate to the employee's occupational exposure to cadmium.

(c) An employee's former, current, and anticipated future levels of occupational exposure to cadmium.

(d) A description of any personal protective equipment, including respirators, that were used or are to be used by the employee, including the date of use and the length of time that the employee has used that equipment.

(e) The results of previous biological monitoring and medical examinations that are relevant to the employee.

(2) An employer shall promptly obtain a written medical opinion from the examining physician for each medical examination performed on each employee. The written opinion shall contain all of the following information:

(a) The physician's diagnosis for the employee.

(b) The physician's opinion as to whether the employee has any detected medical condition that would place the employee at an increased risk of material impairment to health from further exposure to cadmium, including any indications of potential cadmium toxicity.

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(c) The results of any biological or other testing or related evaluations that directly assess the employee's absorption of cadmium.

(d) Any recommended removal from, or limitation on, the activities or duties of the employee or on the employee's use of personal protective equipment including respirators.

(e) A statement that the physician has clearly and carefully explained to the employee the results of the medical examination, including all biological monitoring results and any medical conditions related to cadmium exposure that require further evaluation or treatment, and any limitation on the employee's diet or use of medications.

(3) An employer promptly shall obtain a copy of the results of any biological monitoring that is provided to an employee by requirements other than those of a medical examination required by R 325.51869 and R 325.51871 and, if there is no written medical opinion, shall obtain an explanation sheet explaining the results.

(4) An employer shall instruct the physician not to reveal orally or in the written medical opinion that is given to the employer specific findings or diagnoses unrelated to an occupational exposure to cadmium.

History: 1993 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51875**

Source: 1998-2000 AACS.

**R 325.51876**

Source: 1993 AACS.

**R 325.51877**

Source: 1993 AACS.

**R 325.51878**

Source: 1993 AACS.

**R 325.51878a Hazard communication--general.**

Rule 28a. (1) Chemical manufacturers, importers, distributors and employers shall comply with all requirements of the Occupational Health Standard Part 430 "Hazard Communication," as referenced in R 325.51851a, for cadmium.

(2) In classifying the hazards of cadmium, at least the following hazards are to be addressed:

(a) Cancer.

(b) Lung effects.

(c) Kidney effects.

(d) Acute toxicity effects.

(3) Employers shall include cadmium in the hazard communication program established to comply with the requirements of the Occupational Health Standard Part 430 "Hazard Communication." Employers shall ensure that each employee has access to labels on containers of cadmium and to safety data sheets, and is trained in accordance with R 325.51880 and Occupational Health Standard Part 430 "Hazard Communication," as referenced in R 325.51851a.

History: 2013MR 10, Eff. June 5, 2013.

**R 325.51879 Communication of cadmium hazards to employees.**

Rule 29. (1) An employer shall provide warning signs and display them in regulated areas. In addition, warning signs shall be posted at all approaches to regulated areas so that an employee may read the signs and take the necessary protective steps before entering the regulated area.

(2) Warning signs required by subrule (1) of this rule, shall bear the following legend:

DANGER CADMIUM MAY CAUSE CANCER CAUSES DAMAGE TO LUNGS AND KIDNEYS WEAR RESPIRATORY PROTECTION IN THIS AREA AUTHORIZED PERSONNEL ONLY
--

(3) Prior to June 1, 2016, employers may use the following legend in lieu of that specified in subrule (2) of this rule.

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DANGER CADMIUM CANCER HAZARD CAN CAUSE LUNG AND KIDNEY DISEASE AUTHORIZED PERSONNEL ONLY RESPIRATORS REQUIRED IN THIS AREA
---

- (4) An employer shall ensure that warning signs that are required by this subrule are illuminated, cleaned, and maintained as necessary so that the legend is readily visible.
- (5) An employer shall ensure that all shipping and storage containers that contain cadmium, or cadmium compounds, shall bear appropriate warning labels as specified in R 408.51878a.
- (6) The warning labels for containers of cadmium-contaminated protective clothing, equipment, waste, scrap, or debris shall include at least the following information:

DANGER CONTAINS CADMIUM MAY CAUSE CANCER CAUSES DAMAGE TO LUNGS AND KIDNEYS AVOID CREATING DUST
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- (7) Prior to June 1, 2015, employers may include the following information on shipping and storage containers containing cadmium, cadmium compounds, or cadmium contaminated clothing, equipment, waste, scrap, or debris in lieu of the labeling requirements specified in R 408.51878a and subrule (2) of this rule:

DANGER CONTAINS CADMIUM CANCER HAZARD AVOID CREATING DUST CAN CAUSE LUNG AND KIDNEY DISEASE
---

- (8) Where feasible, installed cadmium products shall have a visible label or other indication that cadmium is present.  
History: 1993 AACCS; 1998 AACCS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51880 Employee information and training.**

Rule 30. (1) An employer shall train each employee who is potentially exposed to cadmium in accordance with this rule. The employer shall institute a training program, ensure employee participation in the program, and maintain a record of the contents of the program. Employee training shall be provided before or at the time of initial assignment to a job that involves potential exposure to cadmium and at least annually thereafter.

- (2) An employer shall make the training program understandable to the employee and shall ensure that each employee is informed of all of the following:
- (a) The health hazards associated with cadmium exposure, with special attention to the type of information provided in appendix A.
  - (b) The quantity, location, manner of use, release, and storage of cadmium in the workplace and the specific nature of operations that could result in exposure to cadmium, especially exposure above the PEL.
  - (c) The engineering controls and work practices associated with the employee's job assignment.
  - (d) The measures employees can take to protect themselves from exposure to cadmium, including modification of smoking and personal hygiene habits, and the specific procedures the employer has implemented to protect employees from exposure to cadmium, such as appropriate work practices, emergency procedures, and the provision of personal protective equipment.
  - (e) The purpose, proper selection, fitting, proper use, and limitations of respirators and protective clothing.
  - (f) The purpose and a description of the medical surveillance program required pursuant to R 325.51868 to R 325.51878.
  - (g) The contents of these rules and the appendices to these rules.
  - (h) The employee's right of access to records as provided by Occupational Health Standard Part 470 "Employee Medical Records and Trade Secrets," as referenced in R 325.51851a. R 325

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(3) An employer shall make a copy of these rules and the appendices to these rules readily available without cost to all affected employees and shall provide a copy if requested. Also, an employer shall provide to the director, upon request, all materials relating to the employee information and training program.

(4) This subrule applies only to the construction industry. In a multiemployer workplace, an employer who produces, uses, or stores cadmium in a manner that may expose employees of other employers to cadmium shall notify the other employers of the potential hazards in accordance with —Occupational Health Standard Part 430 “Hazard Communication,” for general industry or the construction industry, as referenced in R 325.51851a.

History: 1993 AACS; 1998 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51881 Recordkeeping.**

Rule 31. (1) All of the following provisions pertain to records of exposure monitoring:

(a) An employer shall establish and keep accurate records of all air monitoring for cadmium in the workplace.

(b) Air monitoring records shall include, at a minimum, all of the following information:

(i) The monitoring date, shift, duration, and results in terms of an 8-hour TWA of each sample taken and, if cadmium is not detected, the detection level.

(ii) The name, social security number, and job classification of all employees who are monitored and of all other employees whose exposures the monitoring result is intended to represent, including, if applicable, a description of the justification that monitoring results of 1 employee can represent other employees’ exposures.

(iii) A description of the sampling and analytical methods used and evidence of their accuracy.

(iv) The type of respiratory protective device, if any, worn by the monitored employee and by any other employee whose exposure the monitoring result is intended to represent.

(v) A notation of any other conditions that might have affected the monitoring results.

(vi) Any exposure monitoring or objective data that were used and the exposure levels obtained. The provisions of this paragraph apply only to the construction industry.

(c) An employer shall maintain these records for not less than 30 years as set in accordance with Occupational Health Standard Part 470 “Employee Medical Records and Trade Secrets,” as referenced in R 325.51851a. R 325

(d) This subdivision applies only to the construction industry. An employer shall provide a copy of the results of an employee’s air monitoring prescribed in R 325.51854 and R 325.51855 to an industry trade association and to the employee’s union, if any. If neither the association nor the union exists, monitoring results shall be furnished to another comparable organization which is competent to maintain such records and which is reasonably accessible to employers and employees in the industry.

(2) This subrule applies to objective data used to exempt an employer from the requirements to perform initial monitoring as provided in R 325.51855(3). For the purposes of these rules, “objective data” means information which demonstrates that a particular product or material that contains cadmium, or a specific process, operation, or activity that involves cadmium, cannot release dust or fumes in concentrations at or above the action level even under the worst-case release conditions. Objective data can be obtained from an industry-wide study or from laboratory product testing results for manufacturers of cadmium containing products or materials. The data the employer uses from an industry-wide survey shall be obtained under workplace conditions closely resembling the processes, types of material, control methods, work practices, and environmental conditions in the employer’s current operations. An employer shall establish and maintain a record of the objective data for not less than 30 years.

(3) All of the following provisions pertain to medical surveillance records:

(a) An employer shall establish and maintain an accurate record for each employee covered by the medical surveillance requirements of R 325.51868(1) or (2).

(b) The medical surveillance records shall include, at a minimum, all of the following information about the employee:

(i) Name, social security number, and description of duties.

(ii) A copy of the physician’s written opinions and an explanation sheet for biological monitoring results.

(iii) A copy of the medical history, the results of any physical examination, and all test results that are required to be provided by these rules, including biological tests, X-rays, pulmonary function tests, and tests that have been obtained to further evaluate any condition that might be related to cadmium exposure.

(iv) The employee’s medical symptoms that might be related to exposure to cadmium.

(v) A copy of the information that is provided to the physician as required by R 325.51874(1)(b) to (e).

(c) An employer shall ensure that medical records are maintained for the duration of employment plus 30 years as specified by Occupational Health Standard Part 470 “Employee Medical Records and Trade Secrets,” as referenced in R 325.51851a. R 325

(4) All of the following provisions pertain to the availability and transfer of records:

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(a) Except as otherwise provided for in these rules, access to all records that are required to be maintained by this rule shall be in compliance with Occupational Health Standard Part 470 "Employee Medical Records and Trade Secrets," as referenced in R 325.51851a. R 325

(b) Within 15 days after a request, an employer shall make an employee's medical records that are required to be kept pursuant to subrule (3) of this rule available for examination and copying to the subject employee, to a designated representative, or to anyone who has the specific written consent of the subject employee and, after the employee's death or incapacitation, to the employee's family members.

(c) When an employer ceases to do business and there is no successor employer to receive and retain records for the prescribed period or the employer intends to dispose of any records that are required to be preserved for not less than 30 years, then the employer shall comply with the requirements concerning the transfer of records set forth in Occupational Health Standard Part 470 "Employee Medical Records and Trade Secrets," as referenced in R 325.51851a. R 325

(5) An employer shall ensure that any abnormal condition or disorder that is caused by occupational exposure to cadmium in the workplace is properly recorded in injury and illness records pursuant to Administrative Standard Part 11 "Recording and Reporting of Occupational Injuries and Illnesses," as referenced in R 325.51851a.

History: 1993 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51882**

**Source:** 1993 AACS.

**R 325.51883. Compliance dates.**

Rule 33. The rules that apply to general industry and agricultural operations shall commence on September 16, 1993, except as follows:

(a) Except for small businesses that have 19 or fewer employees, initial monitoring that is required by R 325.51855 shall be completed as soon as possible, but not later than 60 days after September 16, 1993. For small businesses, initial monitoring shall be completed as soon as possible, but not later than 120 days after September 16, 1993.

(b) Except for small businesses that have 19 or fewer employees, regulated areas that are required by R 325.51857 shall be established as soon as possible after the results of exposure monitoring are known, but not later than 90 days after September 16, 1993. For small businesses, required regulated areas shall be established as soon as possible after the results of exposure monitoring are known, but not later than September 16, 1993.

(c) Except for small businesses that have 19 or fewer employees, respiratory protection that is required by R 325.51862 and R 325.51863 shall be provided as soon as possible, but not later than 90 days after September 16, 1993. For small businesses, respiratory protection shall be provided as soon as possible, but not later than 150 days after September 16, 1993.

(d) Written compliance programs that are required by R 325.51858(7) shall be completed and available for inspection and copying as soon as possible, but not later than 1 year after September 16, 1993.

(e) The engineering controls that are required by R 325.51858(1) to (6) shall be implemented as soon as possible, but not later than 2 years after September 16, 1993. Work practice controls shall be implemented as soon as possible. Work practice controls that are directly related to engineering controls to be implemented in accordance with the compliance plan shall be implemented as soon as possible after the engineering controls are implemented.

(f) Permanent or temporary hand-washing facilities shall be provided as soon as possible, but not later than 60 days after September 16, 1993.

(g) Change rooms, showers, and lunchroom facilities shall be provided as soon as possible, but not later than 1 year after September 16, 1993.

(h) Except for small businesses that have 19 or fewer employees, the employee information and training that is required by R 325.51880 shall be provided as soon as possible, but not later than 90 days after September 16, 1993. For small businesses, employee information and training shall be provided as soon as possible, but not later than 180 days after September 16, 1993.

(i) Except for small businesses that have 19 or fewer employees, initial medical examinations that are required by R 325.51869 shall be provided as soon as possible, but not later than 90 days after September 16, 1993. For small businesses, initial medical examinations shall be provided as soon as possible, but not later than 180 days after September 16, 1993.

History: 1993 AACS; 1998 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51884**

**Source:** 1993 AACS.

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**R 325.51885 Rescinded.**

History: 1993 AACS; 1998-2000 AACS; 2013 MR 10, Eff. June 5, 2013.

**R 325.51886 Rescinded.**

History: 1993 AACS; 1998 AACS; 2013 MR 10, Eff. June 5, 2013.

**LEAD**

**R 325.51901**

Source: 1998-2000 AACS.

**R 325.51902**

Source: 1998-2000 AACS.

**R 325.51903**

Source: 1998-2000 AACS.

**R 325.51904**

Source: 1998-2000 AACS.

**R 325.51905**

Source: 1998-2000 AACS.

**R 325.51906**

Source: 1998-2000 AACS.

**R 325.51907**

Source: 1981 AACS.

**R 325.51908**

Source: 1998-2000 AACS.

**R 325.51909**

Source: 1981 AACS.

**R 325.51910**

Source: 1981 AACS.

**R 325.51911**

Source: 1981 AACS.

**R 325.51912**

Source: 1981 AACS.

**R 325.51913**

Source: 1981 AACS.

**R 325.51914**

Source: 1998-2000 AACS.

**R 325.51915**

Source: 1984 AACS.

**R 325.51916**

Source: 1998-2000 AACS.

**R 325.51916a**

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Source: 1984 AACS.

**R 325.51916b**

Source: 1984 AACS.

**R 325.51917**

Source: 1998-2000 AACS.

**R 325.51918**

Source: 1998-2000 AACS.

**R 325.51919**

Source: 1998-2000 AACS.

**R 325.51920**

Source: 1998-2000 AACS.

**R 325.51921**

Source: 1998-2000 AACS.

**R 325.51922**

Source: 1981 AACS.

**R 325.51923**

Source: 1981 AACS.

**R 325.51924**

Source: 1988 AACS.

**R 325.51925**

Source: 1981 AACS.

**R 325.51926**

Source: 1981 AACS.

**R 325.51927**

Source: 1981 AACS.

**R 325.51928**

Source: 1981 AACS.

**R 325.51929**

Source: 1998-2000 AACS.

**R 325.51930**

Source: 1998-2000 AACS.

**R 325.51931**

Source: 1988 AACS.

**R 325.51931a**

Source: 1998-2000 AACS.

**R 325.51932**

Source: 1998-2000 AACS.

**R 325.51933**

Source: 1988 AACS.

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**R 325.51934**  
Source: 1998-2000 AACS.

**R 325.51935**  
Source: 1981 AACS.

**R 325.51936**  
Source: 1981 AACS.

**R 325.51937**  
Source: 1981 AACS.

**R 325.51938**  
Source: 1981 AACS.

**R 325.51938a**  
Source: 1988 AACS.

**R 325.51939**  
Source: 1981 AACS.

**R 325.51940**  
Source: 1981 AACS.

**R 325.51941**  
Source: 1984 AACS.

**R 325.51942**  
Source: 1981 AACS.

**R 325.51943**  
Source: 1998-2000 AACS.

**R 325.51944**  
Source: 1981 AACS.

**R 325.51945**  
Source: 1981 AACS.

**R 325.51946**  
Source: 1981 AACS.

**R 325.51947**  
Source: 1981 AACS.

**R 325.51948**  
Source: 1981 AACS.

**R 325.51949**  
Source: 1998-2000 AACS.

**R 325.51950**  
Source: 1981 AACS.

**R 325.51950a**  
Source: 1984 AACS.

**R 325.51950b**

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Source: 1984 AACS.

**R 325.51951**

Source: 1981 AACS.

**R 325.51952**

Source: 1981 AACS.

**R 325.51953**

Source: 1981 AACS.

**R 325.51954**

Source: 1981 AACS.

**R 325.51955**

Source: 1981 AACS.

**R 325.51956**

Source: 1981 AACS.

**R 325.51957**

Source: 1981 AACS.

**R 325.51958**

Source: 1998-2000 AACS.

**LEAD EXPOSURE IN CONSTRUCTION**

**R 325.51991**

Source: 1993 AACS.

**R 325.51992**

Source: 1998-2000 AACS.

**PART 604. CHROMIUM (VI) IN CONSTRUCTION**

**R 325.51995**

Source: 2006 AACS.

**R 325.51996**

Source: 2010 AACS.

**R 325.51997**

Source: 2010 AACS.

**PART 520. VENTILATION CONTROL**

**R 325.52001**

Source: 2005 AACS.

**R 325.52002**

Source: 2005 AACS.

**R 325.52003**

Source: 2005 AACS.

**R 325.52004**

Source: 2005 AACS.

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**R 325.52005**  
Source: 2005 AACS.

**R 325.52006**  
Source: 2005 AACS.

**R 325.52007**  
Source: 2005 AACS.

**R 325.52008**  
Source: 2005 AACS.

**R 325.52009**  
Source: 2005 AACS.

**R 325.52010**  
Source: 2005 AACS.

**R 325.52011**  
Source: 2005 AACS.

**R 325.52012**  
Source: 2005 AACS.

**HAZARDOUS WASTE OPERATIONS AND EMERGENCY RESPONSE**

**R 325.52101**  
Source: 1991 AACS.

**R 325.52102**  
Source: 1998-2000 AACS.

**R 325.52103**  
Source: 1998-2000 AACS.

**R 325.52104**  
Source: 1991 AACS.

**R 325.52105**  
Source: 1991 AACS.

**R 325.52106**  
Source: 1991 AACS.

**R 325.52107**  
Source: 1991 AACS.

**R 325.52108**  
Source: 1991 AACS.

**R 325.52109**  
Source: 1991 AACS.

**R 325.52110**  
Source: 1991 AACS.

**R 325.52111**

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Source: 1991 AACS.

**R 325.52112**

Source: 1991 AACS.

**R 325.52113**

Source: 1998-2000 AACS.

**R 325.52114**

Source: 1998-2000 AACS.

**R 325.52115**

Source: 1991 AACS.

**R 325.52116**

Source: 1991 AACS.

**R 325.52117**

Source: 1991 AACS.

**R 325.52118**

Source: 1998-2000 AACS.

**R 325.52119**

Source: 1991 AACS.

**R 325.52120**

Source: 1991 AACS.

**R 325.52121**

Source: 1991 AACS.

**R 325.52122**

Source: 1991 AACS.

**R 325.52123**

Source: 1991 AACS.

**R 325.52124**

Source: 1991 AACS.

**R 325.52125**

Source: 1998-2000 AACS.

**R 325.52126**

Source: 1991 AACS.

**R 325.52127**

Source: 1991 AACS.

**R 325.52128**

Source: 1991 AACS.

**R 325.52129**

Source: 1998-2000 AACS.

**R 325.52130**

Source: 1998-2000 AACS.

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**R 325.52131**  
Source: 1998-2000 AACS.

**R 325.52132**  
Source: 1991 AACS.

**R 325.52133**  
Source: 1991 AACS.

**R 325.52134**  
Source: 1991 AACS.

**R 325.52135**  
Source: 1998-2000 AACS.

**R 325.52136**  
Source: 1991 AACS.

**R 325.52137**  
Source: 1998-2000 AACS.

**OCCUPATIONAL HEALTH STANDARDS**

**R 325.52201**  
Source: 2001 AACS.

**R 325.52401**  
Source: 2001 AACS.

**PART 525. GRINDING, POLISHING, AND BUFFING OPERATIONS**

**R 325.52501**  
Source: 2003 AACS.

**R 325.52502**  
Source: 2003 AACS.

**R 325.52503**  
Source: 2003 AACS.

**R 325.52504**  
Source: 2003 AACS.

**R 325.52505**  
Source: 2003 AACS.

**R 325.52506**  
Source: 2003 AACS.

**PART 526 DIPPING AND COATING OPERATIONS**

**R 325.52601**  
Source: 2007 AACS.

**R 325.52602**  
Source: 2007 AACS.

**PART 527 SANDING MACHINES**

**R 325.52701**  
Source: 2001 AACS.

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**PART 528. SPRAY-FINISHING OPERATIONS**

**R 325.52801**  
Source: 2007 AACS.

**PART 529. WELDING, CUTTING, AND BRAZING**

**R 325.52901**  
Source: 2012 AACS.

**R 325.52902**  
Source: 2012 AACS.

**R 325.52904**  
Source: 2012 AACS.

**R 325.52905**  
Source: 2012 AACS.

**R 325.52906**  
Source: 2012 AACS.

**R 325.52907**  
Source: 2012 AACS.

**R 325.52908**  
Source: 2012 AACS.

**Rule 3240**  
Source: 2012 AACS.

**PERSONAL PROTECTIVE EQUIPMENT**

**R 325.60001**  
Source: 1998-2000 AACS.

**R 325.60002**  
Source: 1995 AACS.

**R 325.60003**  
Source: 1995 AACS.

**R 325.60004**  
Source: 1995 AACS.

**R 325.60005**  
Source: 1998-2000 AACS.

**R 325.60006**  
Source: 1995 AACS.

**R 325.60007**  
Source: 1998-2000 AACS.

**R 325.60008**  
Source: 1998-2000 AACS.

**R 325.60009**  
Source: 1998-2000 AACS.

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**R 325.60010**  
Source: 1995 AACS.

**R 325.60011**  
Source: 1995 AACS.

**R 325.60012**  
Source: 1995 AACS.

**R 325.60013**  
Source: 1998-2000 AACS.

**USE OF RESPIRATORS IN DANGEROUS ATMOSPHERES**

**R 325.60022**  
Source: 1998-2000 AACS.

**RESPIRATORY PROTECTION**

**R 325.60051**  
Source: 1998-2000 AACS.

**R 325.60052**  
Source: 2007 AACS.

**OCCUPATIONAL NOISE EXPOSURE**

**R 325.60101**  
Source: 1986 AACS.

**R 325.60102**  
Source: 1986 AACS.

**R 325.60103**  
Source: 1986 AACS.

**R 325.60104**  
Source: 1986 AACS.

**R 325.60105**  
Source: 1986 AACS.

**R 325.60106**  
Source: 1986 AACS.

**R 325.60107**  
Source: 1986 AACS.

**R 325.60108**  
Source: 1986 AACS.

**R 325.60109**  
Source: 1986 AACS.

**R 325.60110**  
Source: 1986 AACS.

**R 325.60111**

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Source: 1986 AACS.

**R 325.60112**

Source: 1986 AACS.

**R 325.60113**

Source: 1986 AACS.

**R 325.60114**

Source: 1986 AACS.

**R 325.60115**

Source: 1993 AACS.

**R 325.60116**

Source: 1986 AACS.

**R 325.60117**

Source: 1986 AACS.

**R 325.60118**

Source: 1986 AACS.

**R 325.60119**

Source: 1993 AACS.

**R 325.60120**

Source: 1993 AACS.

**R 325.60121**

Source: 1993 AACS.

**R 325.60122**

Source: 1993 AACS.

**R 325.60123**

Source: 1986 AACS.

**R 325.60124**

Source: 1986 AACS.

**R 325.60125**

Source: 1993 AACS.

**R 325.60126**

Source: 1986 AACS.

**R 325.60127**

Source: 1993 AACS.

**R 325.60128**

Source: 1993 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**DIRECTOR'S OFFICE**

**OCCUPATIONAL HEALTH STANDARDS--NOISE EXPOSURE FOR CONSTRUCTION**

**R 325.60131**

Source: 1998-2000 AACCS.

**AIR CONTAMINANTS FOR CONSTRUCTION**

**R 325.60151 Construction air contaminants; scope; applicability; replacement of O.H. rules.**

Rule 1. (1) An employer shall ensure that employee exposures to inhalation, ingestion, skin absorption, or contact with any material or substance at a concentration above those specified in the "Threshold Limit Values of Airborne Contaminants for 1970" of the American Conference of Governmental Industrial Hygienists, as listed in R 325.60154 to R 325.60161, are avoided.

(2) To achieve compliance with subrule (1) of this rule, an employer shall ensure that administrative or engineering controls are implemented whenever feasible. If administrative or engineering controls are not feasible to achieve full compliance, then protective equipment or other protective measures shall be used to keep the exposure of employees to air contaminants within the limits prescribed in this rule. Any equipment and technical measures used for this purpose shall first be approved for each particular use by a competent industrial hygienist or other technically qualified person. Respirators shall be used in a manner that is in compliance with occupational health standard part 451 "Respiratory Protection," R 325.60051 to R 325.60052.

(3) Occupational health standard part 302 "Vinyl Chloride," R 325.51401 to R 325.51414, applies to the exposure of every employee to vinyl chloride in every employment and place of employment covered by these rules in place of any different standard on exposure to vinyl chloride that would otherwise be applicable by virtue of subrule (1) of this rule.

(4) The "Threshold Limit Values (TLV) of the American Conference of Governmental Industrial Hygienists (A.C.G.I.H.) for 1970" appear in R 325.60153 to R 325.60161. The Threshold Limit Values identified in these rules as Maximum Allowable Concentrations (MAC) are specified in the rules that follow.

(5) These rules do not apply to the following types of employment:

- (a) Agriculture.
- (b) Domestic.
- (c) Mining.
- (d) General industry work.

Exposure to air contaminants in general industry work is covered by occupational health standard part 301 "Air Contaminants for General Industry," R 325.51101 to R 325.51108.

(6) These rules replace O.H. rule 6201.

History: 2002 AACCS; 2013 MR 6, Eff. March 20, 2013.

**R 325.60151a Availability of referenced standards.**

Rule 1a. The following Michigan occupational safety and health standards are referenced in these rules. Up to 5 copies of these standards may be obtained at no charge from the Michigan Department of Licensing and Regulatory Affairs, MIOSHA Standards Section, 7150 Harris Drive, P.O. Box 30643, Lansing, Michigan, 48909-8143 or via the internet at website: [www.michigan.gov/mioshastandards](http://www.michigan.gov/mioshastandards). For quantities greater than 5, the cost, as of the time of adoption of these rules, is 4 cents per page.

- (a) Occupational health standard part 301 "Air Contaminants for General Industry," R 325.51101 to R 325.51108.
- (b) Occupational health standard part 302 "Vinyl Chloride," R 325.51401 to R 325.51414.
- (c) Occupational health standard part 303 "Methylenedianiline," R 325.50051 to R 325.50076.
- (d) Occupational health standard part 304 "Ethylene oxide," R 325.51151 to R 325.51177.
- (e) Occupational health standard part 306 "Formaldehyde," R 325.51451 to R 325.51477.
- (f) Occupational health standard part 307 "Acrylonitrile," R 325.51501 to R 325.51527.
- (g) Occupational health standard part 308 "Inorganic Arsenic," R 325.51601 to R 325.51628.
- (h) Occupational health standard part 309 "Cadmium," R 325.51851 to R 325.51886.
- (i) Occupational health standard part 311 "Benzene," R 325.77101 to R 325.77115.
- (j) Occupational health standard part 312 "1,3-Butadiene," R 325.50091 to R 325.50092.
- (k) Occupational health standard part 313 "Methylene Chloride," R 325.51651 to R 325.51652.
- (l) Occupational health standard part 314 "Coke Oven Emissions," R 325.50101 to R 325.50136.
- (m) Occupational health standard part 451 "Respiratory Protection," R 325.60051 to R 325.60052.
- (n) Occupational health standard part 602 "Asbestos Standards for Construction," R 325.51301 to R 325.51302.
- (o) Occupational health standard part 603 "Lead Exposure in Construction," R 325.51991 to R 325.51992.
- (p) Occupational health standard part 604 "Chromium (VI) in Construction," R 325.51995 to R 325.51997.

History: 2013 MR 6, Eff. March 20, 2013.

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**R 325.60152**

Source: 2002 AACS.

**R 325.60153**

Source: 2002 AACS.

**R 325.60154 Maximum allowable concentrations.**

Rule 4. (1) Maximum allowable concentrations of air contaminants based on a repeated 8-hour work day exposure are listed in tables 1 to 7 in R 325.60155 to R 325.60161.

(2) A substance in tables 1 to 6 that is preceded by the letter A, C, S, or STEL is an especially hazardous contaminant and all the following precautions shall be taken:

(a) If the substance is preceded by the letter "A", then an employer shall ensure that an employee or any part of an employee's anatomy is not exposed to, or allowed to come in contact with, the substance by means of any respiratory, oral, or skin route.

(b) If the substance is preceded by the letter "C", then its MAC means the highest concentration at which an employer may allow a person to be exposed at any time unless noted otherwise. This concentration is commonly referred to as a "ceiling."

(c) If the substance is preceded by the letter "S", then an employer shall ensure that precautions are taken to prevent skin absorption.

(d) If the substance is preceded by "STEL", then it means the STEL listed. For example, an employee's 15-minute, time-weighted average exposure, shall not be exceeded at any time during a work day. The STEL is commonly referred to as the "short-term exposure limit."

History: 2002 AACS; 2013 MR 6, Eff. March 20, 2013.

**R 325.60155 Maximum allowable concentrations for substances; A and B.**

Rule 5. Table 1. Substances A and B

TABLE 1			
	Substance	MAC/Ceiling/STEL	
		ppm	mg/m <sup>3</sup>
	Abate	---	15
	Acetaldehyde	200	360
	Acetic acid	10	25
	Acetic anhydride	5	20
	Acetone	1,000	2,400
	Acetonitrile	40	70
	Acetylene	Inert gas	
	Acetylene dichloride, see 1,2-Dichloroethylene		
	Acetylene tetrabromide	1	14
	Acrolein	0.1	0.25
S	Acrylamide	---	0.3
S	Acrylonitrile, see OH Part 307, R 325.51501 to R 325.51527*		
S	Aldrin	---	0.25
S	Allyl alcohol	2	5
	Allyl chloride	1	3
C	Allyl glycidyl ether (AGE)	10	45
	Allyl propyl disulfide	2	12
	Alundum (Al <sub>2</sub> O <sub>3</sub> )	Inert dust	
	2-Aminoethanol, see Ethanolamine		
	2-Aminopyridine	0.5	2
	Ammonia	50	35

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	Ammonium sulfamate (amate)	---	15
	n-Amyl acetate	100	525
	sec-Amyl acetate	125	650
S	Aniline	5	19
S	Anisidine (o,p-isomers)	---	0.5
	Antimony & compounds (as Sb)	---	0.5
	ANTU (alpha naphthyl thiourea)	---	0.3
	Argon	Inert gas	
	Arsenic, inorganic compounds, see OH Part 308, R 325.51601 to R 325.51628*		
	Arsenic, organic compounds (as As)	---	0.5
	Arsine	0.05	0.2
S	Azinphos-methyl	---	0.2
	Barium (soluble compounds)	---	0.5
	Benzene (benzol), see OH Part 311, R 325.77101 to R 325.77115*		
A,S	Benzidine	---	---
	p-Benzoquinone, see Quinone		
	Benzoyl peroxide	---	5
	Benzyl chloride	1	5
	Beryllium	---	0.002
	Biphenyl, see Diphenyl		
	Bisphenol A, see Diglycidyl ether		
	Boron oxide	---	15
	Boron tribromide	1	10
C	Boron trifluoride	1	3
	Bromine	0.1	0.7
	Bromine pentafluoride	0.1	0.7
S	Bromoform	0.5	5
	Butadiene (1,3-butadiene), see OH Part 312, R 325.50091 to R 325.50092*		
	Butanethiol, see Butyl mercaptan		
	2-Butanone	200	590
S	2-Butoxy ethanol (butyl cellosolve)	50	240
	Butyl acetate (n-butyl acetate)	150	710
	sec-Butyl acetate	200	950
	tert-Butyl acetate	200	950
	Butyl alcohol	100	300
	sec-Butyl alcohol	150	450
	tert-Butyl alcohol	100	300
S,C	Butylamine	5	15
	tert-Butyl chromate (as Cr+6), See OH Part 604, R 325.51995 to R 325.51997*, **	—	---
	n-Butyl glycidyl ether (BGE)	50	270
	Butyl mercaptan	0.5	1.5
	p-tert-Butyltoluene	10	60

A --- See R 325.60154(2)(a).

C --- See R 325.60154(2)(b).

S --- See R 325.60154(2)(c).

\* Caution--these rules contain extensive requirements for exposure to these substances.

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\*\* If the exposure limit in 29 C.F.R. §1926.1126 (adopted by reference in OH Part 604, R 325.51995 to R 325.51997) is stayed or is otherwise not in effect, the exposure limit is a ceiling of 0.1 mg/m<sup>3</sup> and has an "S" notation.

History: 2002 AACS; 2013 MR 6, Eff. March 20, 2013.

**R 325.60156 Maximum allowable concentrations for substances; C and D.**

Rule 6. Table 2. Substances C and D

TABLE 2			
	Substance	MAC/Ceiling/STEL	
		ppm	mg/m <sup>3</sup>
	Cadmium and cadmium compounds, see OH Part 309, R 325.51851 to R 325.51886*		
	Calcium arsenate	---	1
	Calcium carbonate	Inert dust	
	Calcium oxide	---	5
	Camphor (synthetic)	2	---
	Carbaryl (Sevin®)	---	5
	Carbon black	---	3.5
	Carbon dioxide	5,000	9,000
S	Carbon disulfide	20	60
	Carbon monoxide	50	55
S,C	Carbon tetrachloride	10	65
	Cellulose (paper fiber)	Inert dust	
S	Chlordane	---	0.5
S	Chlorinated camphene	---	0.5
	Chlorinated diphenyl oxide	---	0.5
	Chlorine	1	3
	Chlorine dioxide	0.1	0.3
C	Chlorine trifluoride	0.1	0.4
C	Chloroacetaldehyde	1	3
	alpha-Chloroacetophenone (phenacylchloride)	0.05	0.3
	Chlorobenzene (monochlorobenzene)	75	350
	o-Chlorobenzylidene malononitrile (OCBM)	0.05	0.4
	Chlorobromomethane	200	1,050
	2-Chloro-1,3-butadiene, see Chloroprene		
S	Chlorodiphenyl (42% Chlorine)	---	1
S	Chlorodiphenyl (54% Chlorine)	---	0.5
	1-Chloro-2,3-epoxypropane, see Epichlorohydrin		
	2-Chloroethanol, see Ethylene chlorohydrin		
	Chloroethylene, see Vinyl chloride		
C	Chloroform (trichloromethane)	50	240
	1-Chloro-1-nitropropane	20	100
	Chloropicrin	0.1	0.7
S	Chloroprene (2-chloro-1,3-butadiene)	25	90
	Chromic acid and chromates (as Cr+6) see OH Part 604, R 325.51995 to R 325.51997*, ***	---	---

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	Chromium (VI) compounds, see OH Part 604, R 325.51995 to R 325.51997*, ***		
	Chromium, sol. chromic & chromous salts (as Cr)	---	0.5
	Metal & insol. Salts	---	1
	Coal tar pitch volatiles (benzene soluble fraction: anthracene, BaP, phenanthrene, acridine, chrysene, pyrene)	---	0.2
	Cobalt, metal fume & dust	---	0.1
	Coke oven emissions, see OH Part 314, R 325.50101 to R 325.50136*		
	Copper fume	---	0.1
	Dusts and mists	---	1
	Corundum (Al <sub>2</sub> O <sub>3</sub> )	Inert dust	
	Cotton dust (raw)	---	1
	Crag® herbicide	---	15
S	Cresol (all isomers)	5	22
	Crotonaldehyde	2	6
S	Cumene	50	245
S	Cyanide (as CN)	---	5
	Cyanogen	10	---
	Cyclohexane	300	1,050
	Cyclohexanol	50	200
	Cyclohexanone	50	200
	Cyclohexene	300	1,015
	Cyclopentadiene	75	200
	2,4-D	---	10
S	DDT (Dichlorodiphenyl-trichloroethane)	---	1
	DDVP, see Dichlorvos		
S	Decaborane	0.05	0.3
S	Demeton®	---	0.1
	Diacetone alcohol (4-hydroxy-4-methyl-2-pentanone)	50	240
	1,2-Diainoethane, see Ethylenediamine		
	Diazomethane	0.2	0.4
	Diborane	0.1	0.1
S,C	1,2-Dibromoethane (ethylene dibromide)	25	190
	Dibutyl phosphate	1	5
	Dibutyl phthalate	---	5
C	Dichloroacetylene	0.1	0.4
C	o-Dichlorobenzene	50	300
	p-Dichlorobenzene	75	450
	Dichlorodifluoromethane	1,000	4,950
	1,3-Dichloro-5,5-dimethyl hydantoin	---	0.2
	1,1-Dichloroethane	100	400
	1,2-Dichloroethane	50	200
	1,2-Dichloroethylene	200	790
S,C	Dichloroethyl ether	15	90
	Dichloromethane, see Methylene chloride		
	Dichloromonofluoromethane	1,000	4,200
C	1,1-Dichloro-1-nitroethane	10	60
	1,2-Dichloropropane, see Propylene dichloride		
	Dichlorotetrafluoroethane	1,000	7,000

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S	Dichlorvos (DDVP)	---	1
S	Dieldrin	---	0.25
	Diethylamine	25	75
S	Diethylamino, ethanol	10	50
S,C	Diethylene triamine	10	42
	Diethyl ether, see Ethyl ether		
	Difluorodibromomethane	100	860
C	Diglycidyl ether (DGE)	0.5	2.8
	Dihydroxybenzene, see Hydroquinone		
	Diisobutyl ketone	50	290
S	Diisopropylamine	5	20
	Dimethoxymethane, see Methylal		
S	Dimethyl acetamide	10	35
	Dimethylamine	10	18
	Dimethylaminobenzene, see Xylidene		
S	Dimethylaniline (N-dimethylaniline)	5	25
	Dimethylbenzene, see Xylene		
	Dimethyl-1,2-dibromo-2,2-dichloroethylphosphate (Dibrom®)	---	3
S	Dimethylformamide	10	30
	2,6-Dimethylheptanone, see Diisobutyl ketone		
S	1,1-Dimethylhydrazine	0.5	1
	Dimethylphthalate	---	5
S	Dimethylsulfate	1	5
S	Dinitrobenzene (all isomers)	---	1
S	Dinitro-o-cresol	---	0.2
S	Dinitrotoluene	---	1.5
S	Dioxane (diethylene dioxide)	100	360
	Diphenyl	0.2	1
	Diphenyl amine	---	10
	Diphenylmethane diisocyanate, see Methylene bisphenyl isocyanate (MDI)		
S	Dipropylene glycol methyl ether	100	600
	Di-sec, octyl phthalate (di-2-ethylhexylphthalate)	---	5

A --- See R 325.60154(2)(a).

C --- See R 325.60154(2)(b).

S --- See R 325.60154(2)(c).

\* Caution--these rules contain extensive requirements for exposure to these substances.

\*\*\* If the exposure limit in 29 C.F.R. §1926.1126 (adopted by reference in OH Part 604, R 325.51995 to R 325.51997) is stayed or is otherwise not in effect, the exposure limit is 0.1 mg/m<sup>3</sup> for chromic acid and chromates (Cr+6) as an 8-hour TWA.

History: 2002 AACS; 2013 MR 6, Eff. March 20, 2013.

**R 325.60157 Maximum allowable concentrations for substances; E to H.**

Rule 7. Table 3. Substances E to H

<i>TABLE 3</i>			
	Substance	MAC/Ceiling/STEL	
		ppm	mg/m <sup>3</sup>
	Emery	Inert dust	
S	Endosulfan (Thiodan®)	---	0.1

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S	Endrin	---	0.1
S	Epichlorohydrin	5	19
S	EPN	---	0.5
	1,2-Epoxypropane, see Propylene oxide		
	2,3-Epoxy-1-propanol, see Glycidol		
	Ethane	Inert gas	
	Ethanethiol, see Ethyl mercaptan		
	Ethanolamine	3	6
S	2-Ethoxyethanol	200	740
S	2-Ethoxyethylacetate (cellosolve acetate)	100	540
	Ethyl acetate	400	1,400
S	Ethyl acrylate	25	100
	Ethyl alcohol (ethanol)	1,000	1,900
	Ethylamine	10	18
	Ethyl sec-amyl ketone (5-methyl-3-heptanone)	25	130
	Ethyl benzene	100	435
	Ethyl bromide	200	890
	Ethyl butyl ketone (3-heptanone)	50	230
	Ethyl chloride	1,000	2,600
	Ethyl ether	400	1,200
	Ethyl formate	100	300
	Ethyl mercaptan	0.5	1
	Ethyl silicate	100	850
	Ethylene	Inert gas	
S	Ethylene chlorohydrin	5	16
	Ethylenediamine	10	25
	Ethylene dibromide, see 1,2-Dibromoethane		
	Ethylene dichloride, see 1,2-Dichloroethane		
S,C	Ethylene glycol dinitrate and/or Nitroglycerin	0.2	
	Ethylene glycol monomethyl ether acetate, see Methyl cellosolve acetate		
S	Ethyleneimine	0.5	1
	Ethylene oxide, see OH Part 304, R 325.51151 to R 325.51177*		
	Ethylidene chloride, see 1,1-Dichloroethane		
S	N-Ethylmorpholine	20	94
	Ferbam	---	15
	Ferrovandium dust	---	1
	Fibrous glass	Inert dust	
	Fluoride (as F)	---	2.5
	Fluorine	0.1	0.2
	Fluorotrichloromethane	1,000	5,600
€	Formaldehyde, see OH Part 306, R 325.51451 to R 325.51477*		
	Formic acid	5	9
S	Furfural	5	20
	Furfuryl alcohol	50	200
	Gasoline (limits will be based on aromatic hydrocarbons in mixture)		
	Glycerine mist	Inert mist	
	Glycidol (2,3-epoxy-1-propanol)	50	150
	Glycol monoethyl ether, see 2-Ethoxyethanol		

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	Graphite (synthetic)	Inert dust	
	Guthion®, see Azinphos-methyl		
	Gypsum	Inert dust	
	Hafnium	---	0.5
	Helium	Inert gas	
S	Heptachlor	---	0.5
	Heptane (n-heptane)	500	2,000
S	Hexachloroethane	1	10
S	Hexachloronaphthalene	---	0.2
	Hexane (n-hexane)	500	1,800
	2-Hexanone	100	410
	Hexone (methyl isobutyl ketone)	100	410
	sec-Hexyl acetate	50	300
S	Hydrazine	1	1.3
	Hydrogen	Inert gas	
	Hydrogen bromide	3	10
C	Hydrogen chloride	5	7
S	Hydrogen cyanide	10	11
	Hydrogen fluoride	3	2
	Hydrogen peroxide	1	1.4
	Hydrogen selenide	0.05	0.2
	Hydrogen sulfide	10	15
	Hydroquinone	---	2

A --- See R 325.60154(2)(a).

C --- See R 325.60154(2)(b).

S --- See R 325.60154(2)(c).

\* Caution--these rules contain extensive requirements for exposure to these substances.

History: 2002 AACS; 2013 MR 6, Eff. March 20, 2013.

**R 325.60158 Maximum allowable concentrations for substances; I to M.**

Rule 8. Table 4. Substances I to M

<i>TABLE 4</i>			
	Substance	MAC/Ceiling/STEL	
		ppm	mg/m <sup>3</sup>
	Indene	10	45
	Indium and compounds (as In)	---	0.1
C	Iodine	0.1	1
	Iron oxide fume	---	10
	Iron salts, soluble (as Fe)	---	1
	Isoamyl acetate	100	525
	Isoamyl alcohol	100	360
	Isobutyl acetate	150	700
	Isobutyl alcohol	100	300
	Isophorone	25	140
	Isopropyl acetate	250	950
	Isopropyl alcohol	400	980
	Isopropylamine	5	12
	Isopropyl ether	500	2,100

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	Isopropyl glycidyl ether (IGE)	50	240
	Kaolin	Inert dust	
	Ketene	0.5	0.9
	Lead and lead compounds, see OH Part 603, R 325.51991 to R 325.51992*		
	Limestone	Inert dust	
S	Lindane	---	0.5
	Lithium hydride	---	0.025
	L.P.G. (liquified petroleum gas)	1,000	1,800
	Magnesite	Inert dust	
	Magnesium oxide fume	15	
S	Malathion	---	15
	Maleic anhydride	0.25	1
C	Manganese and compounds (as Mn)	---	5
	Marble	Inert dust	
S	Mercury	---	0.1
S	Mercury (organic compounds)	---	0.01
	Mesityl oxide	25	100
	Methane	Inert gas	
	Methanethiol, see Methyl mercaptan		
	Methoxychlor	---	15
	2-Methoxyethanol, see Methyl cellosolve		
	Methyl acetate	200	610
	Methyl acetylene (propyne)	1,000	1,650
	Methyl acetylene-propadiene mixture (MAPP)	1,000	1,800
S	Methyl acrylate	10	35
	Methylal (dimethoxymethane)	1,000	3,100
	Methyl alcohol (methanol)	200	260
	Methylamine	10	12
	Methyl amyl alcohol, see Methyl isobutyl carbinol		
	Methyl (n-amyl) ketone (2-heptanone)	100	465
S,C	Methyl bromide	20	80
	Methyl butyl ketone, see 2-Hexanone		
S	Methyl cellosolve	25	80
S	Methyl cellosolve acetate	25	120
C	Methyl chloride	100	210
	Methyl chloroform	350	1,900
	Methylcyclohexane	500	2,000
	Methylcyclohexanol	100	470
S	o-Methylcyclohexanone	100	460
	Methylenedianiline (MDA), see OH Part 303, R 325.50051 to R 325.50076*		
	Methyl ethyl ketone (MEK), see 2-Butanone		
	Methyl formate	100	250
S	Methyl iodide	5	28
	Methyl isoamyl ketone	100	475
S	Methyl isobutyl carbinol	25	100
	Methyl isobutyl ketone, see Hexone		
S	Methyl isocyanate	0.02	0.05
	Methyl mercaptan	0.5	1

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	Methyl methacrylate	100	410
	Methyl propyl ketone, see 2-Pentanone		
C	Methyl silicate	5	30
C	alpha-Methyl styrene	100	480
C	Methylene bisphenyl isocyanate (MDI)	0.02	0.2
	Methylene chloride (dichloromethane), see OH Part 313, R 325.51651 to R 325.51652*		
	Molybdenum (soluble compounds) (insoluble compounds)	--- ---	5 15
S	Monomethyl aniline	2	9
S,C	Monomethyl hydrazine	0.2	0.35
S	Morpholine	20	70

A --- See R 325.60154(2)(a).

C --- See R 325.60154(2)(b).

S --- See R 325.60154(2)(c).

STEL --- See R 325.60154(d).

\* Caution--these rules contain extensive requirements for exposure to these substances.

History: 2002 AACCS; 2013 MR 6, Eff. March 20, 2013.

**R 325.60159 Maximum allowable concentrations for substances; N to P.**

Rule 9. Table 5. Substances N to P

<i>TABLE 5</i>			
	Substance	MAC/Ceiling/STEL	
		ppm	mg/m <sup>3</sup>
	Naphtha (coal tar)	100	400
	Naphtha (petroleum) (MAC will be based on aromatic hydrocarbons in mixture)		
	Naphthalene	10	50
A	beta-Naphthylamine	---	
	Neon	Inert gas	
	Nickel carbonyl	0.001	0.007
	Nickel, metal and soluble compounds (as Ni)	---	1
S	Nicotine	---	0.5
	Nitric acid	2	5
	Nitric oxide	25	30
S	p-Nitroaniline	1	6
S	Nitrobenzene	1	5
S	p-Nitrochlorobenzene	---	1
	Nitroethane	100	310
	Nitrogen	Inert gas	
	Nitrogen dioxide	5	9
	Nitrogen trifluoride	10	29
S	Nitroglycerin	0.2	2
	Nitromethane	100	250
	1-Nitropropane	25	90
	2-Nitropropane	25	90
S,A	N-Nitrosodimethylamine (dimethylnitrosomine)	---	
S	Nitrotoluene	5	30
	Nitrotrichloromethane, see Chloropicrin		

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	Nitrous oxide	Inert gas	
S	Octachloronaphthalene	---	0.1
	Octane	400	1,900
	Oil mist, particulate	---	5
	Oil mist, vapor (MAC will be based on aromatic hydrocarbons in mixture)		
	Osmium tetroxide	---	0.002
	Oxalic acid	---	1
	Oxygen difluoride	0.05	0.1
	Ozone	0.1	0.2
S	Paraquat	---	0.5
S	Parathion	---	0.1
	Pentaborane	0.005	0.01
S	Pentachloronaphthalene	---	0.5
S	Pentachlorophenol	---	0.5
	Pentaerythritol	Inert particulate	
	Pentane	500	1,500
	2-Pentanone	200	700
	Perchloroethylene	100	670
	Perchloromethyl mercaptan	0.1	0.8
	Perchloryl fluoride	3	13.5
	Petroleum distillates (naphtha) (MAC will be based on aromatic hydrocarbons in mixture)		
S	Phenol	5	19
S	p-Phenylene diamine	---	0.1
	Phenyl ether (vapor)	1	7
	Phenyl ether-biphenyl mixture (vapor)	1	7
	Phenylethylene, see Styrene		
	Phenyl glycidyl ether (PGE)	10	60
S	Phenylhydrazine	5	22
S	Phosdrin (Mevinphos®)	---	0.1
	Phosgene (carbonyl chloride)	0.1	0.4
	Phosphine	0.3	0.4
	Phosphoric acid	---	1
	Phosphorus (yellow)	---	0.1
	Phosphorus pentachloride	---	1
	Phosphorus pentasulfide	---	1
	Phosphorus trichloride	0.5	3
	Phthalic anhydride	2	12
S	Picric acid	---	0.1
	Pival® (2-pivalyl-1,3-indandione)	---	0.1
	Plaster of Paris	Inert dust	
	Platinum, soluble salts (as Pt)	---	0.002
	Polytetrafluoroethylene decomposition products, see Teflon® decomposition products		
	Propane	Inert gas	
S	Propargyl alcohol	1	---
A	beta-Propiolactone	---	
	n-Propyl acetate	200	840
	Propyl alcohol	200	500
	n-Propyl nitrate	25	110

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	Propylene bichloride	75	350
S	Propylene imine	2	5
	Propylene oxide	100	240
	Propyne, see Methyl acetylene		
	Pyrethrum	---	5
	Pyridine	5	15

A --- See R 325.60154(2)(a).

C --- See R 325.60154(2)(b).

S --- See R 325.60154(2)(c).

History: 2002 AACs; 2013 MR 6, Eff. March 20, 2013.

**R 325.60160 Maximum allowable concentrations for substances; Q to Z.**

Rule 10. Table 6. Substances Q to Z

<i>TABLE 6</i>			
Substance		MAC/Ceiling/STEL	
		ppm	mg/m <sup>3</sup>
	Quinone	0.1	0.4
S	RDX	---	1.5
	Rhodium, metal fume, dusts, and insoluble compounds (as Rh)	---	0.1
	Rhodium, soluble compounds (as Rh)	---	0.001
	Ronnel	---	10
	Rotenone (commercial)	---	5
	Rouge	Inert dust	
	Selenium compounds (as Se)	---	0.2
	Selenium hexafluoride	0.05	0.4
	Silicon carbide	Inert dust	
	Silver, metal and soluble compounds	---	0.01
S	Sodium fluoroacetate (1080)	---	0.05
	Sodium hydroxide	---	2
	Starch	Inert dust	
	Stibine	0.1	0.5
	Stoddard solvent	200	1,150
	Strychnine	---	0.15
C	Styrene monomer (phenylethylene)	100	420
	Sucrose	Inert dust	
	Sulfur dioxide	5	13
	Sulfur hexafluoride	1,000	6,000
	Sulfuric acid	---	1
	Sulfur monochloride	1	6
	Sulfur pentafluoride	0.025	0.25
	Sulfuryl fluoride	5	20
	Systox, see Demeton®		
	2,4,5T	---	10
	Tantalum	---	5
S	TEDP	---	0.2
	Teflon® decomposition products (maintain minimal air concentration)		
	Tellurium	---	0.1

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	Tellurium hexafluoride	0.02	0.2
S	TEPP	---	0.05
C	Terphenyls	1	9
	1,1,1,2-Tetrachloro-2,2-difluoroethane	500	4,170
	1,1,2,2-Tetrachloro-1,2-difluoroethane	500	4,170
S	1,1,2,2-Tetrachloroethane	5	35
	Tetrachloroethylene, see Perchloroethylene		
	Tetrachloromethane, see Carbon tetrachloride		
S	Tetrachloronaphthalene	---	2
S	Tetraethyl lead (as Pb)	---	0.075 <sup>a</sup>
	Tetrahydrofuran	200	590
S	Tetramethyl lead (TML) (as Pb)	---	0.150
S	Tetramethyl succinonitrile	0.5	3
	Tetranitromethane	1	8
S	Tetryl (2,4,6-trinitrophenylmethyl-nitramine)	---	1.5
S	Thallium, soluble compounds (as Tl)	---	0.1
	Thiram	---	5
	Tin (inorganic compounds, except SnH <sub>4</sub> and SnO <sub>2</sub> ) (organic compounds)	---	2 0.1
	Tin oxide	Inert particulate	
	Titanium dioxide	Inert particulate	
	Toluene (toluol)	200	750
C	Toluene-2,4-diisocyanate	0.02	0.14
S	o-Toluidine	5	22
	Toxaphene, see Chlorinated camphene		
	Tributyl phosphate	---	5
	1,1,1-Trichloroethane, see Methyl chloroform		
S	1,1,2-Trichloroethane	10	45
	Trichloroethylene	100	535
	Trichloromethane, see Chloroform		
S	Trichloronaphthalene	---	5
	1,2,3-Trichloropropane	50	300
	1,1,2-Trichloro-1,2,2-trifluoroethane	1,000	7,600
	Triethylamine	25	100
	Trifluoromonobromomethane	1,000	6,100
	Trimethyl benzene	25	120
	2,4,6-Trinitrophenol, see Picric acid		
	2,4,6-Trinitrophenylmethyl nitramine, see Tetryl		
S	Trinitrotoluene	---	1.5
	Triorthocresyl phosphate	---	0.1
	Triphenyl phosphate	---	3
	Tungsten and compounds (as W) Insoluble Soluble	---	5 1
	Turpentine	100	560
	Uranium (natural) soluble & insoluble compounds (as U)	---	0.2
C	Vanadium (V <sub>2</sub> O <sub>5</sub> dust)	---	0.5 0.1

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	(V <sub>2</sub> O <sub>5</sub> fume)		
	Vinyl benzene, see Styrene		
C	Vinyl chloride, see OH Part 302, R 325.51401 to R 325.51414*		
	Vinyl cyanide, see Acrylonitrile		
	Vinyl toluene	100	480
	Warfarin	---	0.1
	Xylene (xylol)	100	435
S	Xylidine	5	25
	Yttrium	---	1
	Zinc chloride fume	---	1
	Zinc oxide fume	---	5
	Zirconium compounds (as Zr)	---	5

A --- See R 325.60154(2)(a).

C --- See R 325.60154(2)(b).

S --- See R 325.60154(2)(c).

STEL --- See R 325.60154(2)(d)

<sup>a</sup> The 1970 ACGIH standard for Tetraethyl lead is 0.100 mg/m<sup>3</sup>.

\* Caution--these rules contain extensive requirements for exposure to these substances.

History: 2002 AACs; 2013 MR 6, Eff. March 20, 2013.

**R 325.60161 Maximum allowable concentrations for mineral dusts.**

Rule 11. Table 7. Mineral dusts

<i>TABLE 7</i>			
Substance		MAC	
		mppcf	mg/m <sup>3</sup>
Silica			
	Crystalline *		
	Quartz (respirable)	$\frac{250}{\% \text{ SiO}_2+5}$	$\frac{10 \text{ mg/m}^3}{\% \text{ SiO}_2+2}$
	Cristobalite, see crystalline quartz		
	Amorphous, including natural diatomaceous earth	20	$\frac{80 \text{ mg/m}^3}{\% \text{ SiO}_2}$
Silicates (less than 1% crystalline silica)			
	Asbestos, all types, see OH Part 602, R 325.51301 to R 325.51302		
	Mica	20	
	Portland cement	50	
	Soapstone	20	
	Talc (non-asbestiform)	20	
	Talc (fibrous), see OH Part 602, R 325.51301 to R 325.51302		
	Tremolite, see OH Part 602, R 325.51301 to R 325.51302		
	Graphite (natural)	15	
	Inert or nuisance particles **	50 of total dust less than 1% SiO <sub>2</sub> (or 15 mg/m <sup>3</sup> , whichever is the smaller)	

\* The percentage of crystalline silica, SiO<sub>2</sub>, in the formula is the amount determined from airborne samples.

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\*\* The following are some examples of inert or nuisance particulates when toxic impurities are not present; e.g. quartz less than 1%.

Alundum (Al <sub>2</sub> O <sub>3</sub> )	Gypsum	Rouge
Calcium carbonate	Limestone	Silicon carbide
Cellulose	Magnesite	Starch
Corundum (Al <sub>2</sub> O <sub>3</sub> )	Marble	Sucrose
Emery	Pentaerythritol	Tin oxide
Glycerine mist	Plaster of Paris	Titanium dioxide
Graphite (synthetic)	Portland cement	Vegetable oil mists (except castor, cashew nut, or similar irritant oils)

History: 2002 AACS; 2013 MR 6, Eff. March 20, 2013.

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**PART 381. IONIZING RADIATION**

**R 325.60601a**

Source: 2009 AACS.

**R 325.60601b**

Source: 2009 AACS.

**R 325.60602**

Source: 2009 AACS.

**R 325.60603**

Source: 2009 AACS.

**R 325.60604**

Source: 2009 AACS.

**R 325.60605**

Source: 2009 AACS.

**R 325.60606**

Source: 2009 AACS.

**R 325.60607**

Source: 2009 AACS.

**R 325.60608**

Source: 2009 AACS.

**R 325.60609**

Source: 2009 AACS.

**R 325.60610**

Source: 2009 AACS.

**R 325.60611**

Source: 2009 AACS.

**R 325.60612**

Source: 2009 AACS.

**R 325.60613**

Source: 2009 AACS.

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**R 325.60614**  
Source: 2009 AACS.

**R 325.60615**  
Source: 2009 AACS.

**R 325.60616**  
Source: 2009 AACS.

**R 325.60617**  
Source: 2009 AACS.

**R 325.60618**  
Source: 2009 AACS.

**Rule 2410**  
Source: 2009 AACS.

**OCCUPATIONAL HEALTH STANDARDS COMMISSION**

**PART 382. NONIONIZING RADIATION**

**R 325.60701**  
Source: 2002 AACS.

**R 325.60702**  
Source: 2002 AACS.

**R 325.60703**  
Source: 2002 AACS.

**R 325.60704**  
Source: 2002 AACS.

**AGRICULTURAL FIELD SANITATION**

**R 325.61751**  
Source: 1997 AACS.

**R 325.61752**  
Source: 1997 AACS.

**R 325.61753**  
Source: 1997 AACS.

**R 325.61754**  
Source: 1997 AACS.

**R 325.61755**  
Source: 1997 AACS.

**R 325.61756**  
Source: 1997 AACS.

**R 325.61757**  
Source: 1997 AACS.

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**DEPARTMENT OF LABOR & ECONOMIC GROWTH**

**DIRECTOR'S OFFICE**

**PART 620. VENTILATION CONTROL FOR CONSTRUCTION**

**R 325.62001**  
Source: 2007 AACS.

**R 325.62002**  
Source: 2007 AACS.

**R 325.62003**  
Source: 2007 AACS.

**R 325.62004**  
Source: 2007 AACS.

**R 325.62005**  
Source: 2007 AACS.

**R 325.62006**  
Source: 2007 AACS.

**UNDERGROUND CONSTRUCTION, CAISSONS, COFFERDAMS,  
AND COMPRESSED AIR**

**R 325.62991**  
Source: 2004 AACS.

**R 325.62992**  
Source: 2004 AACS.

**R 325.62993**  
Source: 1998-2000 AACS.

**R 325.62994**  
Source: 2004 AACS.

**R 325.62995**  
Source: 2004 AACS.

**R 325.62996**  
Source: 2004 AACS.

**PERMIT-REQUIRED CONFINED SPACES**

**R 325.63001**  
Source: 1998-2000 AACS.

**R 325.63002**  
Source: 1998-2000 AACS.

**R 325.63049**  
Source: 1998-2000 AACS.

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**OH STANDARD RULE 6610 - MEDICAL SERVICES AND FIRST AID**

**R 325.66201**  
Source: 2002 AACS.

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**OCCUPATIONAL HEALTH STANDARDS**

**R 325.66401**  
Source: 2005 AACS.

**PART 681. RADIATION IN CONSTRUCTION: IONIZING AND NONIONIZING**

**R 325.68101**  
Source: 2005 AACS.

**R 325. 68102**  
Source: 2005 AACS.

**BLOODBORNE INFECTIOUS DISEASES**

**R 325.70001**  
Source: 2001 AACS.

**R 325.70002**  
Source: 2001 AACS.

**R 325.70003**  
Source: 1993 AACS.

**R 325.70004**  
Source: 2001 AACS.

**R 325.70005**  
Source: 1996 AACS.

**R 325.70006**  
Source: 1993 AACS.

**R 325.70007**  
Source: 1996 AACS.

**R 325.70008**  
Source: 1996 AACS.

**R 325.70009**  
Source: 1996 AACS.

**R 325.70010**  
Source: 1993 AACS.

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**R 325.70011**  
Source: 1993 AACS.

**R 325.70012**  
Source: 1996 AACS.

**R 325.70013**  
Source: 1996 AACS.

**R 325.70014**  
Source: 1993 AACS.

**R 325.70015**  
Source: 2001 AACS.

**R 325.70016**  
Source: 1996 AACS.

**R 325.70017**  
Source: 1996 AACS.

**R 325.70018**  
Source: 1996 AACS.

**HAZARDOUS WORK IN LABORATORIES**

**PART 431. HAZARDOUS WORK IN LABORATORIES**

**R 325.70101**  
Source: 2003 AACS.

**R 325.70102**  
Source: 2003 AACS.

**R 325.70103**  
Source: 2003 AACS.

**R 325.70104**  
Source: 2003 AACS.

**R 325.70105**  
Source: 2003 AACS.

**R 325.70106**  
Source: 2003 AACS.

**R 325.70107**  
Source: 2003 AACS.

**R 325.70108**  
Source: 2003 AACS.

**R 325.70109**  
Source: 2003 AACS.

**R 325.70110**  
Source: 2003 AACS.

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**R 325.70111**  
Source: 2003 AACS.

**R 325.70112**  
Source: 2003 AACS.

**R 325.70113**  
Source: 2003 AACS.

**R 325.70114**  
Source: 2003 AACS.

**DEPARTMENT OF CONSUMER AND INDUSTRY SERVICES**

**DIRECTOR'S OFFICE**

**OCCUPATIONAL HEALTH STANDARDS**

**R 325.70251**  
Source: 2001 AACS.

**HAZARD COMMUNICATION**

**R 325.77001**  
Source: 1995 AACS.

**R 325.77002**  
Source: 2012 AACS.

**R 325.77003**  
Source: 2012 AACS.

**BENZENE**

**R 325.77101**  
Source: 2002 AACS.

**R 325.77102**  
Source: 2001 AACS.

**R 325.77103**  
Source: 1989 AACS.

**R 325.77104**  
Source: 1989 AACS.

**R 325.77105**  
Source: 2001 AACS.

**R 325.77106**  
Source: 1989 AACS.

**R 325.77107**  
Source: 2001 AACS.

**R 325.77108**

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Source: 2001 AACS.

**R 325.77109**

Source: 2001 AACS.

**R 325.77110**

Source: 2001 AACS.

**R 325.77111**

Source: 2001 AACS.

**R 325.77113**

Source: 2001 AACS.

**R 325.77114**

Source: 2001 AACS.

**R 325.77115**

Source: 2001 AACS.

**DEPARTMENT OF COMMUNITY HEALTH**  
**HEALTH LEGISLATION AND POLICY DEVELOPMENT**

**LEAD HAZARD CONTROL**

**PART 1. GENERAL PROVISIONS**

**R 325.99101**

Source: 2005 AACS.

**R 325.99102**

Source: 2007 AACS.

**R 325.99103**

Source: 2007 AACS.

**R 325.99104**

Source: 2007 AACS.

**PART 2. TRAINING PROGRAMS**

**R 325.99201**

Source: 2005 AACS.

**R 325.99202**

Source: 2005 AACS.

**R 325.99203**

Source: 2005 AACS.

**R 325.99204**

Source: 2005 AACS.

**R 325.99205**

Source: 2005 AACS.

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**R 325.99206**  
Source: 2005 AACS.

**R 325.99207**  
Source: 2005 AACS.

**R 325.99208**  
Source: 2005 AACS.

**R 325.99209**  
Source: 2005 AACS.

**R 325.99210**  
Source: 2005 AACS.

**R 325.99211**  
Source: 2005 AACS.

**R 325.99212**  
Source: 2005 AACS.

**R 325.99213**  
Source: 2005 AACS.

**PART 3. CERTIFIED INDIVIDUALS AND FIRMS**

**R 325.99301**  
Source: 2007 AACS.

**R 325.99302**  
Source: 2005 AACS.

**R 325.99303**  
Source: 2005 AACS.

**R 325.99304**  
Source: 2007 AACS.

**PART 4. WORK PRACTICE STANDARDS**

**R 325.99401**  
Source: 2005 AACS.

**R 325.99402**  
Source: 2005 AACS.

**R 325.99403**  
Source: 2007 AACS.

**R 325.99404**  
Source: 2007 AACS.

**R 325.99405**  
Source: 2005 AACS.

**R 325.99406**  
Source: 2007 AACS.

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**R 325.99407**

Source: 2005 AACs.

**R 325.99408**

Source: 2007 AACs.

**R 325.99409**

Source: 2007 AACs.